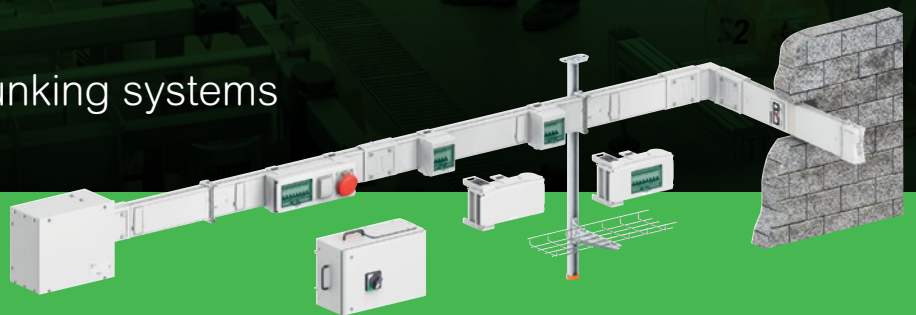


# Canalis KSA 100-1000 A

Catalogue 2025  
Prefabricated busbar trunking systems  
Aluminium



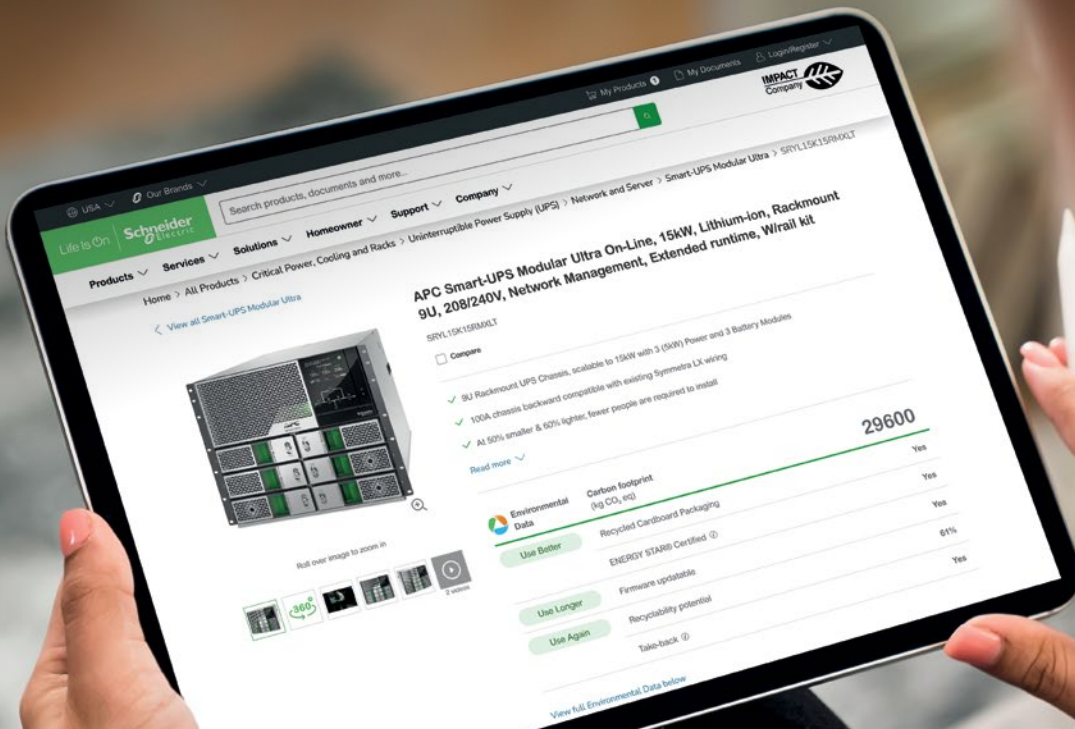
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**Schneider**  
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# Environmental Data Program

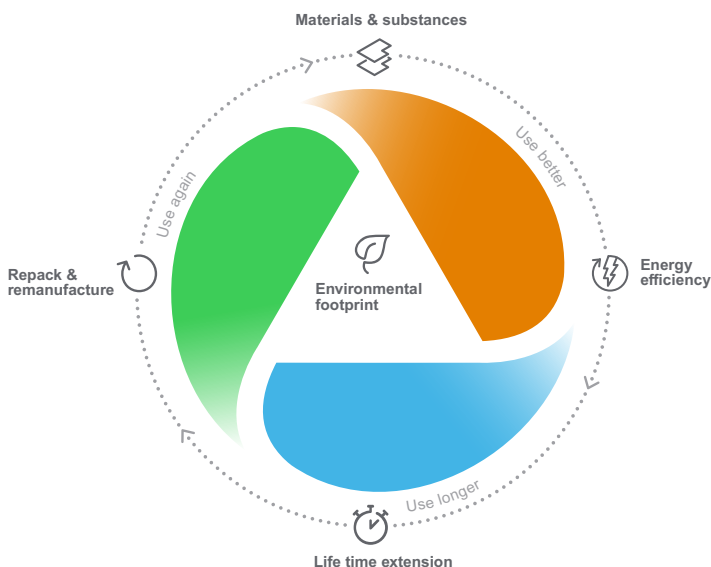


## Next-level transparency for better-informed product choices

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



Use Better: How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

Use Longer: How a product's life time can be effectively extended in terms of reparability and updatability.

Use Again: How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on se.com product pages.



Learn more about the  
**Environmental Data Program**



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| KSB1000ZB1    | 64    |
| KSB1000ZB2    | 64    |
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| KSB1000ZP1    | 64    |
| KSB1000ZP2    | 64    |
| KSB1000ZV1    | 182   |
| KSB1000ZV2    | 182   |
| KSB1000ZV3    | 182   |
| KSB100SE4     | 58    |
| KSB100SE5     | 59    |
| KSB100SF4     | 54    |
| KSB100SF5     | 54    |
| KSB100SM412   | 52    |
| KSB100SM512   | 52    |
| KSB100SV4     | 152   |
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| KSB125HD5     | 158   |
| KSB125HD502   | 159   |
| KSB160DB412   | 160   |
| KSB160DB512   | 161   |
| KSB160DC4     | 62    |
| KSB160DC5     | 63    |
| KSB160DD411   | 157   |
| KSB160DM4     | 61    |
| KSB160DM5     | 61    |
| KSB160SE4     | 58    |
| KSB160SE5     | 59    |
| KSB160SF4     | 58    |
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| KSB160SV4     | 152   |
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| KSB250SDF4    | 155   |
| KSB250SDF5    | 155   |
| KSB250SE4     | 58    |
| KSB250SE5     | 59    |
| KSB250SM428   | 184   |
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| KSB32CM55     | 49    |
| KSB32CP       | 49    |
| KSB32CP11D    | 51    |
| KSB32CP11F    | 50    |
| KSB32CP15D    | 51    |
| KSB32CP15F    | 50    |
| KSB32CP35     | 51    |
| KSB32SG4      | 53    |
| KSB400DB412   | 160   |
| KSB400DB512   | 161   |
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| KSB400DC4TRE  | 156   |
| KSB400DC5     | 63    |
| KSB400DC5TRE  | 156   |
| KSB400DCZFL21 | 163   |
| KSB400DD411   | 157   |
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| KSB400SDF4    | 155   |
| KSB400SDF5    | 155   |
| KSB400SE4     | 58    |
| KSB400SE5     | 59    |
| KSB400ZB1     | 64    |
| KSB400ZB2     | 64    |
| KSB400ZF1     | 46    |
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| KSB50SF4      | 54    |
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| KSB50SV4      | 152   |
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| KSB630SE4     | 154   |
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| KSB63PMP      | 163   |
| KSB63SD4      | 56    |
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# Presentation

# A Canalis installation for every distribution system

Schneider Electric offers different distribution systems to fit all your operating needs.

## The Canalis decentralized distribution concept.

### Upgradeable during operation

In decentralized distribution, evolving operating requirements and costs are integrated right from the start.

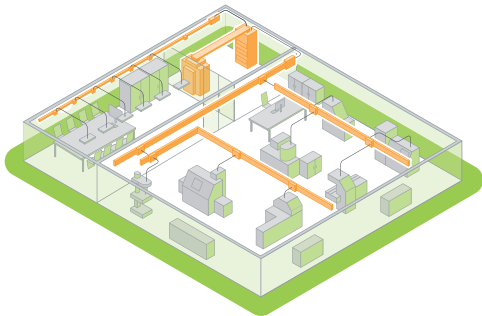
- The addition, relocation or replacement of load equipment can be carried out quickly, without de-energizing the supply trunking or shutting down operation.
- The cost of making such changes is greatly reduced:
  - loads are located close to supply points
  - tap-off points are always available
  - tap-units can be reused or new ones added quickly for load.

### Relocation or replacement needs.

- Reusable in the event of major changes.
- When making major modifications to your installation, the existing trunking can be easily dismantled and reused.

B

DB410747 eps



### Decentralized distribution

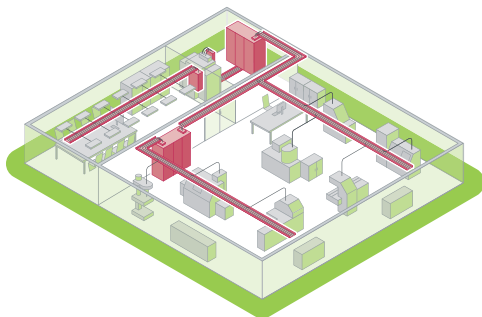
#### For manufacturing industries

- Mechanical
- Textiles
- Lumber
- Injection moulding
- Electronics
- Pharmaceuticals
- Livestock, etc.

#### Decentralized distribution lets you

- Design installations without layout details
- Upgrade without shutting down production
- Get systems up and running sooner thanks to faster installation
- Generate savings depending on the number of loads.

DD406503 eps



### Centralized distribution

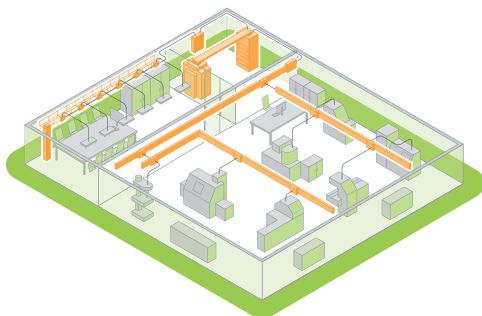
#### For all continuous processes

- Cement plants
- Oil and gas
- Petrochemicals
- Steel
- Paper, etc.

#### Centralized distribution offers

- Continuity of service
- Combined distribution of power, control and monitoring circuits
- Supervision, etc.

DB410746 eps



### Combined distribution

Where the advantages of both centralized and decentralized distribution are required.

#### Commercial and service buildings

- Offices
- Stores
- Hospitals
- Exhibition halls, etc.

#### Infrastructures

- Airports
- Telecommunications
- Internet data centres
- Tunnels, etc.

#### Industrial facilities

- Pharmaceuticals
- Food processing, etc.



## Presentation

# The Canalis decentralized distribution concept

Electrical power available at all points within the installation

Total coordination of the Schneider Electric system provides maximum protection for life and property, continuity of service, upgradeability and ease of installation.

Total coordination is made easy by the tables in the "Design Guide". They help you choose the right combination of circuit breakers and busbar trunking. Product characteristics are verified by calculations and tests carried out in our laboratories.



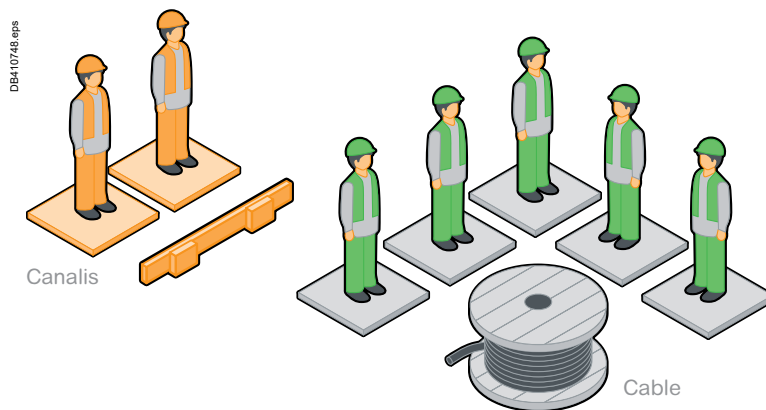
Exclusive features of the Schneider Electric system

### A competitive installation

Simplicity, upgradeability, enhanced performance and continuity of service and operation.

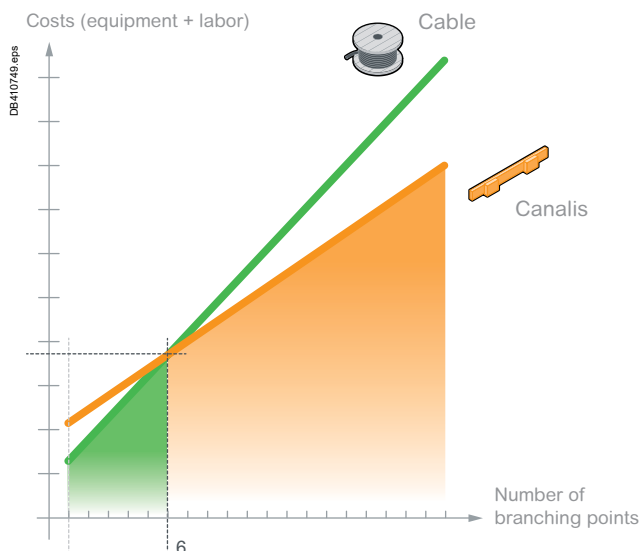
**Savings start as soon as the installation begins.** With tap-off points every 3 metres, Canalis busbar trunking reduces installation costs.

Given the low cost of adding new circuits, savings increase as the number of loads increase, a natural result of the growth of your business.



### Comparative investment

of 400 A electric power system equipment.



# Presentation

## Product lifecycle

Power distribution is a major challenge in the construction and refurbishment of commercial, industrial buildings and data centers.

The choice of device is fundamental as it will have an effect on the building's lifecycle. Infrastructures should comply with existing requirements while being flexible, networked and smart. The Canalis concept is undoubtedly the right solution to meet the needs of today and the challenges of tomorrow.

B

### Simple to estimate

**Designing Canalis installations is straightforward** as there is no need to know the exact location, nor the power rating of the loads to be supplied.

**It is therefore very quick to cost the distribution functions.** Moreover, Canalis's flexibility means you can invest in existing needs without adversely affecting future expansion.

### Practical to recycle

Over the last 20 years, recycling has become a major challenge for industry.

The composition of Canalis ranges **offers a 95% recycling rate.**

But the Canalis offers go one better... if a site is being restructured or enlarged, **the products can simply be removed and reinstalled in their new environment.**

### Easy to install

**The compact nature of Canalis makes it easy to integrate in all parts of the building.**

Since it is based on a decentralized architecture, Canalis can be installed at the same time as the building is being built, which optimizes site construction schedules.

Because of the delayed differentiation linked to the Canalis architecture, new constraints can be taken into account without adding to the installation time.

#### Controlling costs

The Canalis ranges are factory-tested, which provides a very high level of quality on site and considerably improves the success of site acceptance tests.

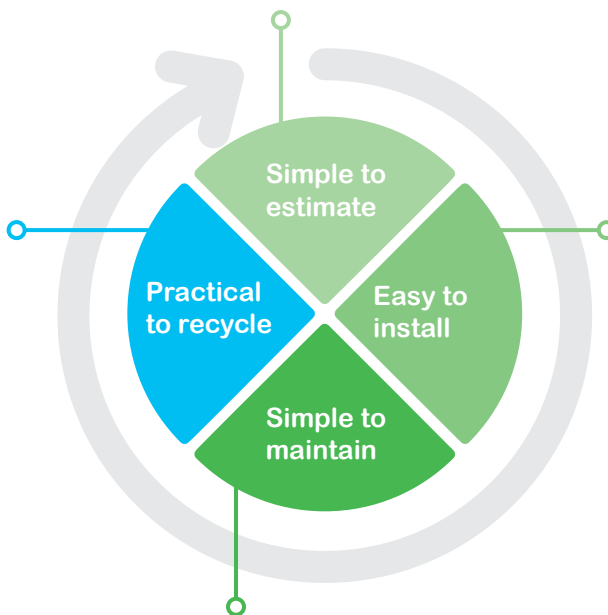
### Simple to maintain

- **No maintenance is required on the Canalis electrical contacts.**

- The clarity of the Canalis architecture simplifies building maintenance and upgrades:
  - > enlarging office space,
  - > adding check-outs in a supermarket...

**Decentralized distribution ensures continuity of service;** when associated with a 100% maintained or non-maintained supply, the required functions are met:

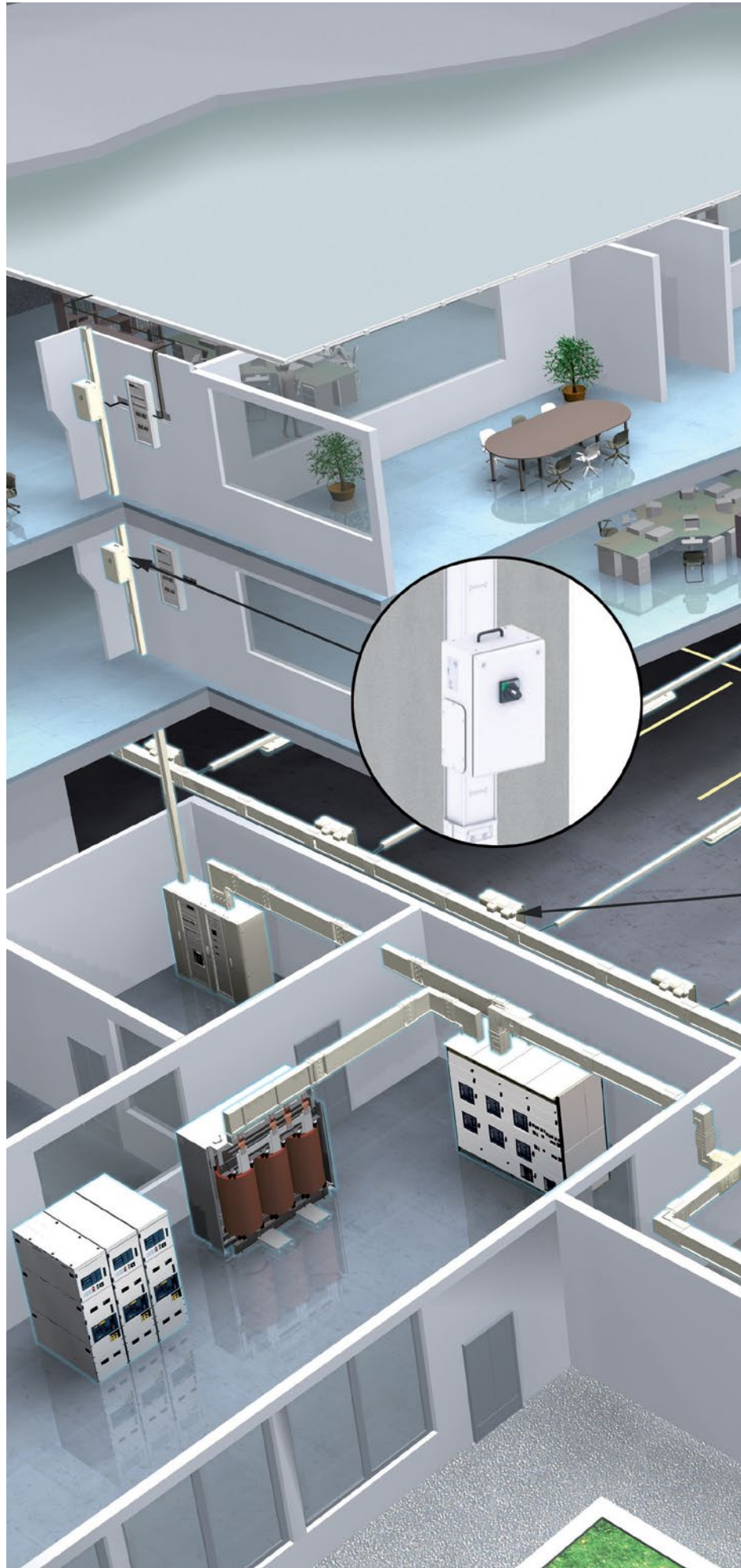
- > maintaining the cold chain in a hypermarket,
- > lighting system in a car park...



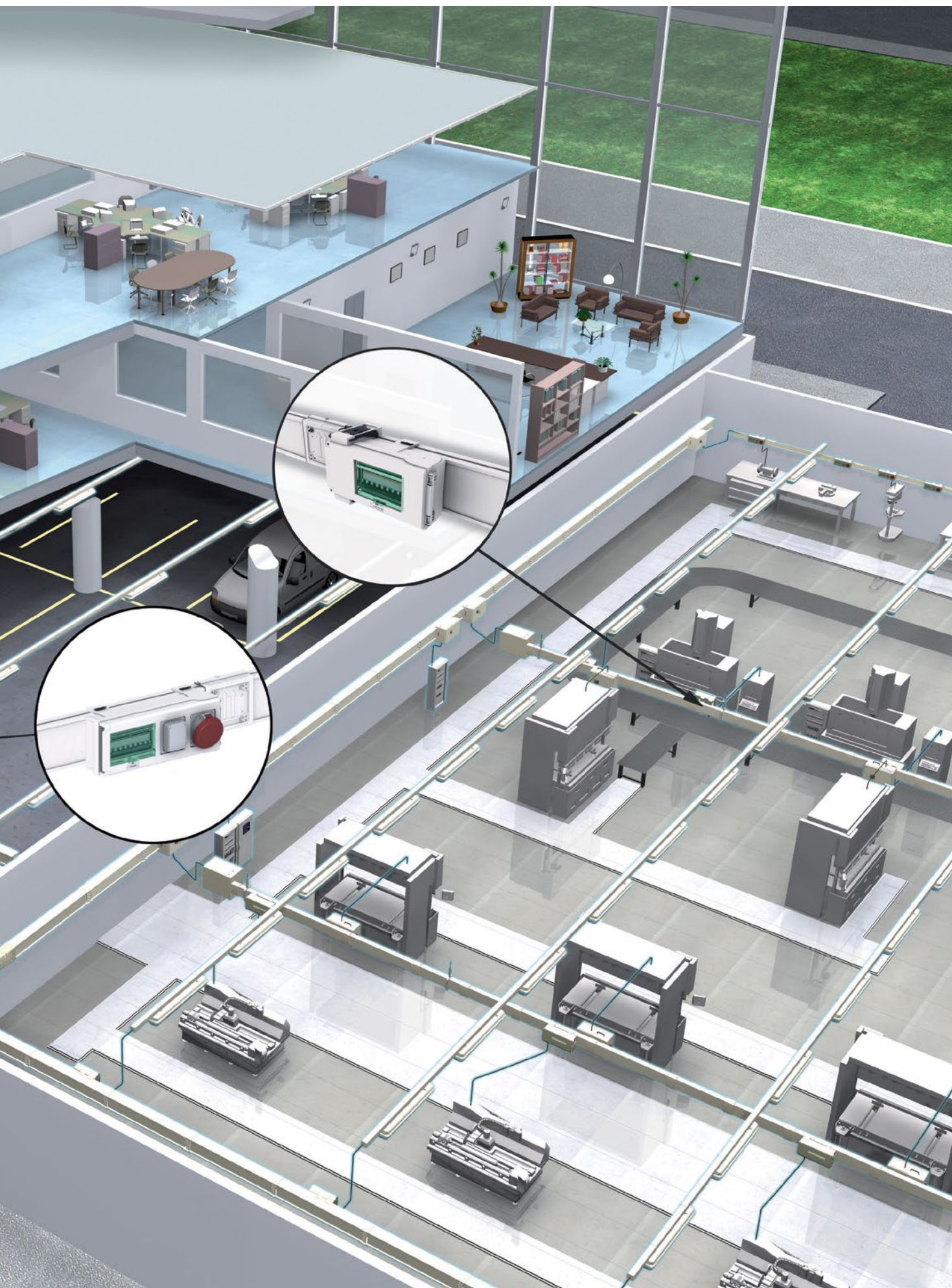
# Canalis®

From 100 to 1000 A

"Electrical energy  
available throughout  
your installation."







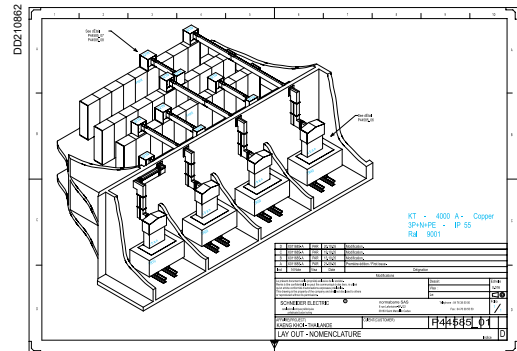
B



## Presentation

# Canalis tools and services

Working together on your solution



Our teams are available to provide customers with technical assistance throughout the installation of their projects.

### Design of electrical distribution architectures:

- design of decentralized transport and distribution systems
- technical and financial optimization of busbar trunking design projects
- transformer/switchboard link
- installation coordination and discrimination.

### Full installation drawings\*:

- 3D AutoCAD drawings with corresponding parts lists
- 2D drawing with dimensions
- detailed connection drawings

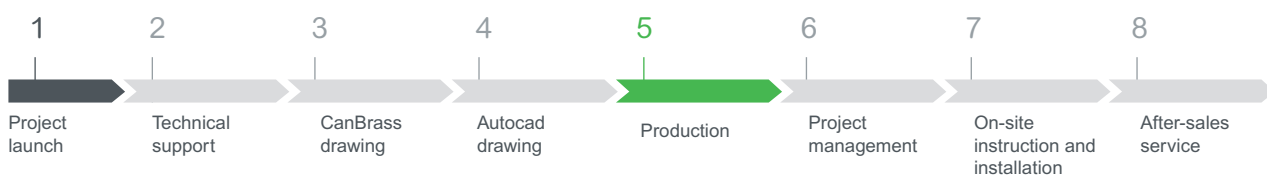
\*All AutoCADs are available on Traceparts.com

BIM Models: will be available on Schneider-electric.com in 2019.

### Site supervision and commissioning assistance.

### Training for designers and contractors.

## Canalis Busway "Total Solution":



## CanBrass gives you all the help you need

"Schneider Electric offers comprehensive design and costing software."

The **CanBrass** software by Schneider Electric was developed to help you design and cost Canalis busbar trunking runs.

## CanBrass, Your comprehensive tool

The CanBrass software allows you to quickly design the right layout for your project. It helps you:

- Choose the required material
- Define a list of catalogue numbers and their exact quantities
- Generate a comprehensive quote that includes material and labour.

There are 2 options:

- Linear metre costing.
- Graphical costing.

Design guide.

## Linear meter costing

[illegible]

Switchboard access estimation of material and labour costs.

## Graphical costing

The screenshot shows the SolidWorks software interface. The main window displays a 3D model of a mechanical part, which is a rectangular block with a green path (likely a laser path) on its top surface. The path starts at the front-left corner, moves right, then up and right, then down and right, and finally up and right to the back-right corner. The part is shown in a perspective view. The bottom status bar indicates the part is made of 'Aluminum' and has a volume of '1.000000e+001' and a mass of '0.250000e+001'.

| Material | Volume        | Mass          | Volume        | Mass          | Volume        | Mass          |
|----------|---------------|---------------|---------------|---------------|---------------|---------------|
| Aluminum | 1.000000e+001 | 0.250000e+001 | 1.000000e+001 | 0.250000e+001 | 1.000000e+001 | 0.250000e+001 |
| Total    | 1.000000e+001 | 0.250000e+001 | 1.000000e+001 | 0.250000e+001 | 1.000000e+001 | 0.250000e+001 |

### Definition of catalogue numbers

[illegible]

Breakdown of the run by product function.

### Quote

[illegible]

The screenshot shows the WinCC Graphics Designer interface. On the left, the 'Project' tree lists 'Link-Plant', 'Flow run', 'Flow main', 'Flow run', 'Power distribution', 'Lighting distribution', and 'Flow run'. The 'Flow run' block is selected. The main workspace shows a 'Flow run' diagram with a 'Flow main' block. The right pane shows the 'Properties' window for the 'Flow run' block. The 'Type of Control chosen' is set to 'Type of Control chosen' and 'IPSI' is set to 'IPSI in standard'. The 'Description of the run' section shows 'Length of ground part (without top-off outlet)' set to 10, 'Quantity of directional changes' set to 1, 'Quantity of flows' set to 1, 'Flow area' set to 1, 'Residual transportation' set to 1, and 'Phase transportation' set to 1. The 'Addition of top-off wells' section shows 'For hoses' set to 1, 'For modular equipment' set to 1, and 'For Main-Gain circuit breakers' set to 1.

Enter Canalis run characteristics.

## Panorama

# Panorama of Canalis range

## Low & medium Power Solutions

Busbar trunking for lighting and low power distribution from 25 to 40 A  
IP55



| Rated service current | Permissible rated peak current | Rated insulation voltage | Color                         |
|-----------------------|--------------------------------|--------------------------|-------------------------------|
| Inc                   | Ipk                            | Ui                       |                               |
| KBA                   |                                |                          |                               |
| 25 A<br>40 A          | 4.4 kA<br>9.6 kA               | 690 V                    | Pre-lacquered white (RAL9003) |
|                       |                                |                          |                               |
| KBB                   |                                |                          |                               |
| 25 A<br>40 A          | 4.4 kA<br>9.6 kA               | 690 V                    | Pre-lacquered white (RAL9003) |
|                       |                                |                          |                               |

Power distribution from 40 to 160 A  
IP55



| Rated service current | Permissible rated peak current | Rated insulation voltage | Color                         |
|-----------------------|--------------------------------|--------------------------|-------------------------------|
| Inc                   | Ipk                            | Ui                       |                               |
| <b>KN</b>             |                                |                          |                               |
| 40 A                  | 6 kA                           | 500 V                    | Pre-lacquered white (RAL9001) |
| 63 A                  | 11 kA                          |                          |                               |
| 100 A                 | 14 kA                          |                          |                               |
| 160 A                 | 20 kA                          |                          |                               |

Horizontal and vertical distribution  
from 100 to 1000 A  
IP55



| Rated service current | Permissible rated peak current | Rated insulation voltage | Color                         |
|-----------------------|--------------------------------|--------------------------|-------------------------------|
| Inc                   | Ipk                            | Ui                       |                               |
| <b>KS</b>             |                                |                          |                               |
| <b>Aluminium:</b>     | <b>Copper:</b>                 | 690 V                    | Pre-lacquered white (RAL9001) |
| 100 A                 |                                |                          |                               |
| 160 A                 | 160 A                          |                          |                               |
| 250 A                 | 250 A                          |                          |                               |
| 400 A                 | 400 A                          |                          |                               |
| 500 A                 |                                |                          |                               |
| 630 A                 | 630 A                          |                          |                               |
| 800 A                 | 800 A                          |                          |                               |
| 1000 A                |                                |                          |                               |



## Panorama of Canalis range

C

| Line components      |                                                                                   | Branching points             |                                                                                                                               |                                  | Accessories                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length of components | Number of conductors                                                              | Center to center distance    |                                                                                                                               | Protection type                  |                                                                                                                                                                                                     |
| 2 m and 3 m          | 2 or 4 + PE                                                                       | 0.5 m, 1 m on 1 side         | L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control | With fuses or without protection | <ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Communication bus (DALI, ASI)</li> <li>&gt; Cable ducts</li> </ul> |
| 2 m and 3 m          | Single circuit 2 or 4 + PE<br>Dual circuit 2 + 2 + PE<br>2 + 4 + PE<br>4 + 4 + PE | 0.5 m or 1 m on 1 or 2 sides | L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control | With fuses or without protection | <ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Communication bus (DALI, ASI)</li> <li>&gt; Cable ducts</li> </ul> |

| Line components      |                      | Branching points          |                        |                                                       | Accessories                                                                                                                                                                                                                     |
|----------------------|----------------------|---------------------------|------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length of components | Number of conductors | Center to center distance |                        | Protection type                                       |                                                                                                                                                                                                                                 |
| 2 m and 3 m          | 4 + PE               | 0.5 m, 1 m on 1 side      | 16 A to 63 A (plug-in) | Units for modular circuit breakers, fuses and sockets | <ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Remote control bus</li> <li>&gt; Cable ducts</li> <li>&gt; Installation accessories</li> </ul> |

| Line components                                  |                      | Branching points                                                                       |                         |                                                                   | Accessories                                                                                                                                                                                                                |
|--------------------------------------------------|----------------------|----------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length of components                             | Number of conductors | Center to center distance                                                              |                         | Protection type                                                   |                                                                                                                                                                                                                            |
| 3 m, 5 m and additional or customized components | 4 + PE               | 0.5 m or 1 m on each side for horizontal version, and on one side for vertical version | 16 A to 400 A (plug-in) | Units for circuit breakers (modular, Compact NSX), fuses, sockets | <ul style="list-style-type: none"> <li>&gt; Riser ducting offer</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Cable ducts</li> <li>&gt; Installation accessories</li> <li>&gt; Fire barriers</li> </ul> |

## Panorama

# Panorama of Canalis range

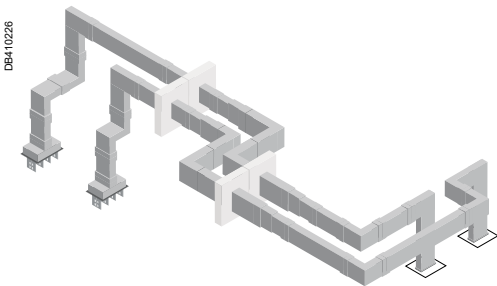
## High Power Solutions



Power transmission and distribution  
from 800 to 6300 A  
IP55

| Rated service current |         | Permissible rated peak current |           | Rated insulation voltage | Color                         |
|-----------------------|---------|--------------------------------|-----------|--------------------------|-------------------------------|
| Inc                   |         | Ipk                            |           | Ui                       |                               |
| KT *                  |         |                                |           |                          |                               |
| Aluminium:            | Copper: | Standard:                      | Optional: | 1000 V                   | Pre-lacquered white (RAL9001) |
| 800 A                 | -       | 64 kA                          | 73 kA     |                          |                               |
| 1000 A                | 1000 A  | 110 kA                         | 143 kA    |                          |                               |
| 1250 A                | 1350 A  | 110 kA                         | 143 kA    |                          |                               |
| 1600 A                | 1600 A  | 143 kA                         | 187 kA    |                          |                               |
| 2000 A                | 2000 A  | 154 kA                         | 242 kA    |                          |                               |
| 2500 A                | 2500 A  | 176 kA                         | 248 kA    |                          |                               |
| 3200 A                | 3200 A  | 189 kA                         | 248 kA    |                          |                               |
| 4000 A                | 4000 A  | 198 kA                         | 264 kA    |                          |                               |
| 5000 A                | 5000 A  | 209 kA                         | 264 kA    |                          |                               |
| -                     | 6300 A  | 209 kA                         | 264 kA    |                          |                               |

\* Canalis KT range is available on [schneider-electric.com](http://schneider-electric.com) or catalogue:  
KTA: ref. DEBU021EN / KTC: ref. DEBU024EN



Power transmission for outdoor and  
harsh environment from 800 to 6300 A  
IP68

| Rated service current | Permissible rated peak current |         | Rated insulation voltage | Color          |
|-----------------------|--------------------------------|---------|--------------------------|----------------|
| Inc                   | Ipk                            |         | Ui                       |                |
| KR *                  |                                |         |                          |                |
|                       | Aluminium:                     | Copper: | 1000 V                   | Gray (RAL7030) |
| 800 A                 | 56 kA                          | -       |                          |                |
| 1000 A                | 56 kA                          | 80 kA   |                          |                |
| 1250 A                | 117 kA                         | -       |                          |                |
| 1350 A                | -                              | 80 kA   |                          |                |
| 1600 A                | 117 kA                         | 143 kA  |                          |                |
| 2000 A                | 143 kA                         | 176 kA  |                          |                |
| 2500 A                | 176 kA                         | 176 kA  |                          |                |
| 3200 A                | 220 kA                         | 220 kA  |                          |                |
| 4000 A                | 220 kA                         | 220 kA  |                          |                |
| 5000 A                | 220 kA                         | 275 kA  |                          |                |
| 6300 A                | -                              | 275 kA  |                          |                |

\* Canalis KR range is available on [Schneider-electric.com](http://Schneider-electric.com) or catalogue ref. DEBU031EN

## Panorama of Canalis range

| Line components      |                                        | Branching points          |                                                      |                                                                   | Accessories                                                                                                                                                        |
|----------------------|----------------------------------------|---------------------------|------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length of components | Number of conductors                   | Center to center distance |                                                      | Protection type                                                   |                                                                                                                                                                    |
| 2 m and 4 m          | 3P + PE<br>3P + N + PE<br>3P + N + PER | 0.5 m or 1 m              | 25 A to 630 A (plug-in)<br>400 A to 1250 A (bolt-on) | Units for circuit breakers (modular, Compact NSX), fuses, sockets | <ul style="list-style-type: none"> <li>&gt; Power supply ends</li> <li>&gt; Direction change angles and T-pieces</li> <li>&gt; Fixing devices and fuses</li> </ul> |

C

| Line components      |                                                          | Branching points          |   |                 | Accessories                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------|---------------------------|---|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Length of components | Number of conductors                                     | Center to center distance |   | Protection type |                                                                                                                                                                                                |
| Up to 3 m            | 3L<br>3L + N or<br>3L + PE or<br>3L + PEN<br>3L + N + PE | -                         | - | -               | <ul style="list-style-type: none"> <li>&gt; Power supply ends</li> <li>&gt; Direction change angles and T-pieces</li> <li>&gt; Fixing devices</li> <li>&gt; Fire resistant elements</li> </ul> |



## Presentation

# Canalis is adapted for all types of buildings

## Key points

### Parkings

- Installation protection
- Operating continuity
- Energy management

### Garages

- Installation protection
- Evolutivity
- Costs reduction
- Operating continuity

### Cruise ships

- Installation protection
- Flexibility
- Competitivity

### Logistic centers

- Installation protection
- Evolutivity
- Costs reduction

### Warehouses

- Installation protection
- Easy to maintain
- Costs reduction
- Evolutivity

### Livestock production buildings

- Installation protection
- Easy to maintain
- Evolutivity

### Hypermarkets

- Operating continuity
- Installation protection
- Evolutivity

### Offices

- Comfort
- Installation protection
- Energy savings

### Data centers

- Operating continuity
- Installation protection
- Evolutivity

### Industrial Buidings

- Installation protection
- Evolutivity
- Costs reduction
- Operating continuity



110119



PB110347



PB0841



P125583



PB115881



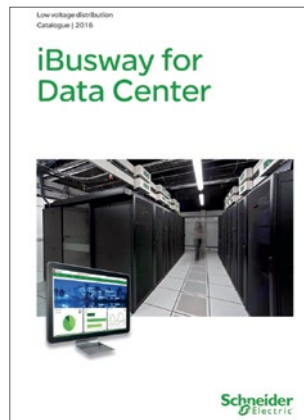
239001

# Presentation Canalis® Solutions



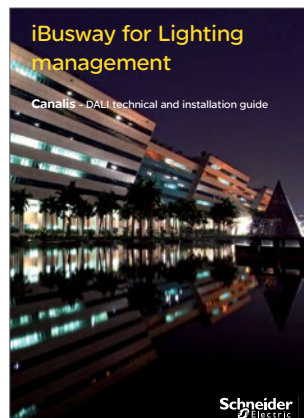
## Solution for Data Center

- iBusway for Data Center catalogue: **DEBU028EN**
- iBusway for Data Center brochure: **DEBU027EN**



## Solution for lighting management

- iBusway for lighting management: Canalis DALI technical installation guide **DEBU032EN**
- Brochure iBusway for lighting management: **DESWED112002EN**
- Catalogue iBusway for lighting management: **DEBU035EN**



## Application datasheets/Guide

- In cruise ships: **DESWED105014EN**
- In livestock production buildings: **DESWED105010EN**
- In logistic centers: **DESWED105011EN**
- In car parks: **DESWED108011EN**
- In greenhouses: **DESWED105013EN**
- In garages: **DESWED106004EN**
- In hypermarkets: **KD0C98CTAHYEN**
- In automotive industry: **KD0C98CTAAUEN**



## Presentation

# Canalis KS means business!

As an electrical engineering specialist in the service and industrial buildings sector, you want to offer your customers optimal continuity of service while controlling costs and meeting deadlines.



### Schneider Electric know-how at your disposal

With Canalis KS, you obtain all the modularity, engineering design and innovation developed by the world leader in electricity distribution. This range of busbar trunking comprises:

- a large choice of ratings
- customized elements adapted to your installation constraints
- protection devices to provide continuity of service and the protection of personnel and equipment.



### Protection of personnel and electrical equipment

With Canalis KS, you have a dependable electrical system, because the prefabricated busbar trunking has been optimized and tested in accordance with the IEC 61439-6 standard.



### The entire Canalis KS range is contains neither halogen nor PVC

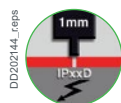
This means no toxic emission in case of fire. Thanks to fire-break elements, the fire is confined for two hours, in vertical and horizontal positions.



### A high degree of protection

A high degree of protection for Canalis KS means it can be installed in all types of buildings.

- **IP55** guarantees trunking protection against splashes and dust.
- **IK08** guarantees the strength of the trunking (resistance to shocks).
- **IPxxD** ensures secure working conditions for maintenance personnel.
- Canalis KS complies with **sprinkler tests**, guaranteeing operation under vertically and horizontally sprayed water for 50 minutes.



### An environmentally friendly lifecycle

Manufacturing, packing and distribution processes have been designed to limit the environmental impact of our products. In service, KS busbar trunking dissipates less than 0.1% of the total power circulating in the product. At end of life, over 90% of the materials used can be recycled by crushing or dismantling.



Schneider Electric has employed all its expertise to optimize the energy consumption of your electricity distribution system. With Canalis KS, reduce the CO<sub>2</sub> impact of your system.

#### Losses

- Canalis KS 250 A: 3.5 kWh/100 m
- 250 A cables: 5.7 kWh/100 m
- difference: 2.2 kWh/100 m, i.e. for one year = 19272 kWh/year/100 m.

#### Discharge of CO<sub>2</sub>/100 m

19272 x 0.64 kg/kWh <sup>(1)</sup> = 12.3 tonnes year/100 m.

#### Saving achieved

19272 x € 0.084 <sup>(2)</sup> = € 1619/year/100 m.

<sup>(1)</sup> CO<sub>2</sub> emissions per kWh: 0.64 kg CO<sub>2</sub>/kWh (source: International Energy Agency).

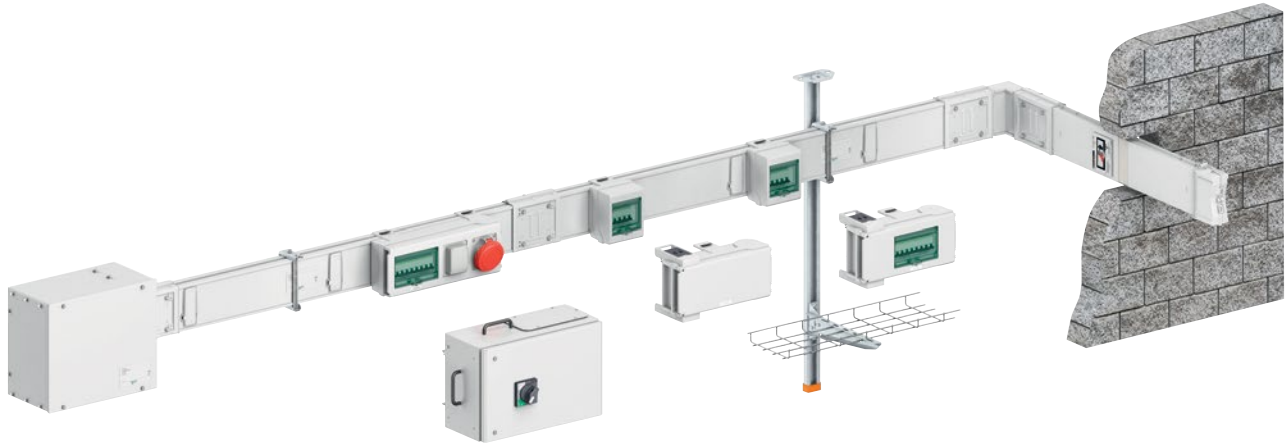
<sup>(2)</sup> Industrial cost of 1 kWh = € 0.084 (source: Eurostat, January 2006), for an annual consumption of 2000 mWh, excluding VAT.

For more information, the environmental profile of the Canalis KS range is available on: [www.schneider-electric.com](http://www.schneider-electric.com)

"Canalis KS is a range of prefabricated busbar trunking and tap-off units designed for you and your customers."

# Our performance... Your values

PB115580-60.eps



C

## Light and easy to handle

Canalis KS trunking equipped with aluminium conductors is 40 % lighter, for equal power ratings.

## Excellent contact

Contacts are silver-plated. The level of performance remains the same throughout the life of the product.

## Incomparable scalability

The electrical busbar trunking has a high density of tap-off points even in rising mains, due to the absorption of differential expansion by the junctions. The tap-off units can be added or removed busway energized.

## Easy handling and installation

Because the available space in technical ducts is limited, Canalis KS uses significantly less room compared to a centralized distribution system using cables. Installation is made easy due to the design of the jointing units that facilitate alignment of the straight lengths.

## Maintenance free

All sliding joint contacts are lubricated for the life of the product.

## Very flexible

The floor-distribution components in the Canalis KS range offer 3 or 4 tap-off outlets per floor, which means you have reserve outlets for future upgrades.

## Feed units with protection device

These provide line protection. They make it possible to perform operations on a line by de-energizing it, without interrupting the power supply of the whole system.

## A complete range of tap-off units

- The range covers all needs from 16 to 400 A.
- Protection is possible using circuit breakers, fuses or surge arresters.
- Also available are 32 A tap-off units equipped with household and industrial power sockets.

## Create intelligent tap-off units using all Schneider Electric devices

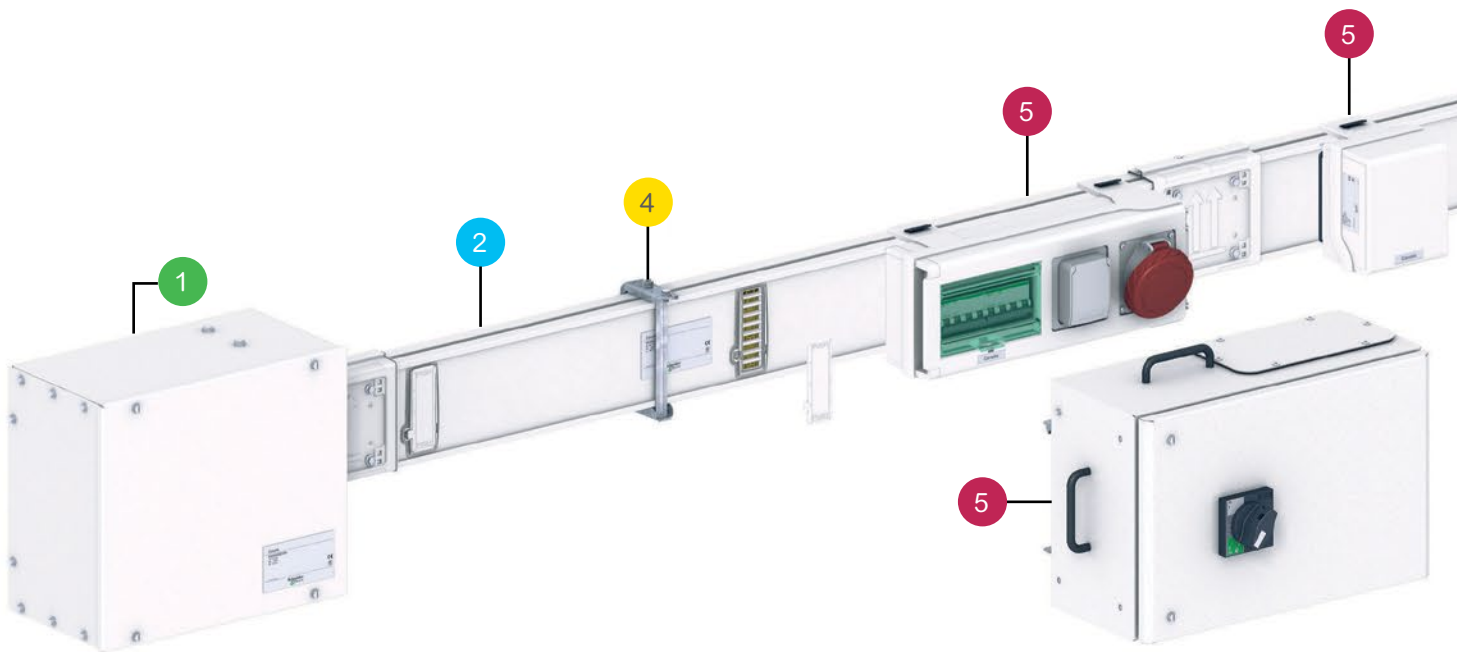
- To monitor the installation to avoid overloads and provide continuity of service.
- To meter the energy consumed for precise management (cost allocation for each consumer).



## Presentation

# Canalis KS for medium-power distribution from 100 to 1000 A

PE115950\_epps



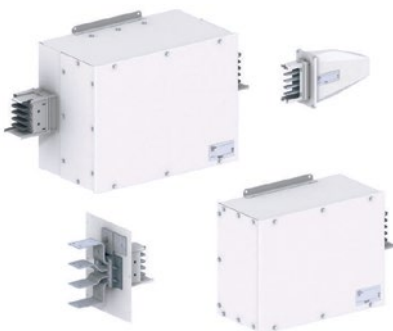
## 1. Feed units and end covers

The feed units delivered with end covers, receive the cables supplying at one end or any other point of Canalis KS trunking.

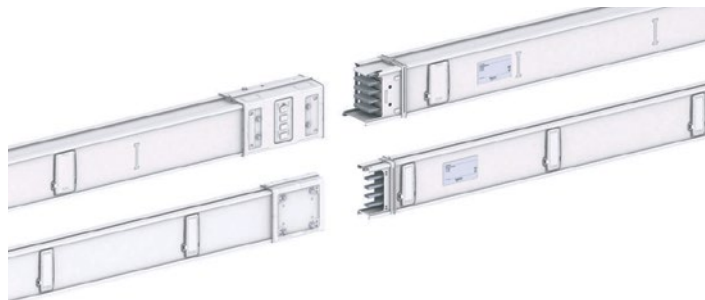
## 2. Straight lengths

- Rating: 100, 160, 250, 400, 500, 630, 800, 1000 A.
- 4 live conductors (3L+N+PE).
- Length:
  - classic offer: 3 and 5 metres
  - advanced offer: 1.5 and 2 metres and 3 live conductors (3L+PE).

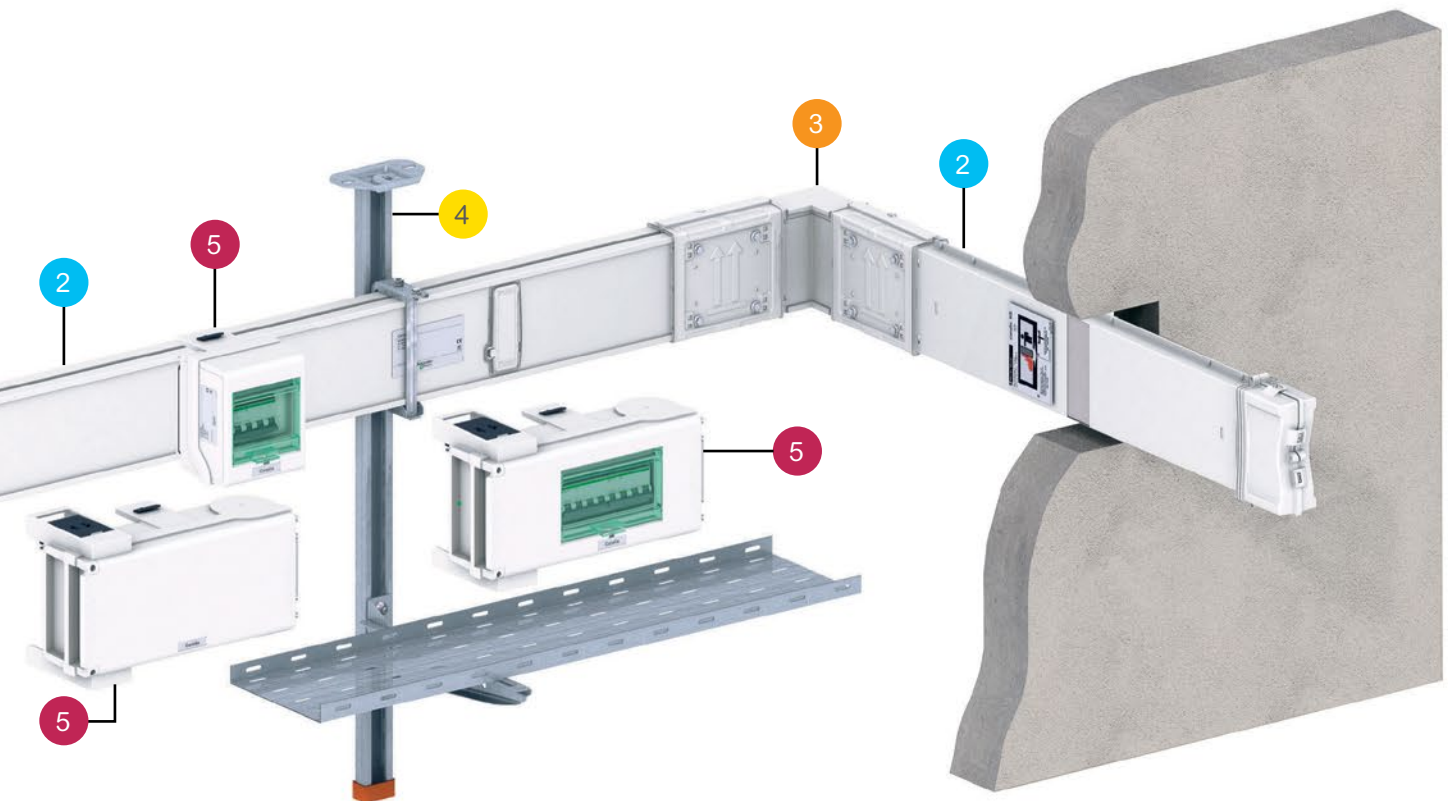
PD022205\_W



PD022204\_W



# Canalis KS for medium-power distribution from 100 to 1000 A



## 3. Change direction elements

All components for changing direction are supplied with a junction block.

## 4. Fixing system

The fixing system keeps the Canalis KS well arranged whatever the type of building structure

## 5. Tap-off units

- The tap-off units (with and without isolators) are used to:
  - supply loads from 25 to 400 A
  - or protect nearby loads against overloads due to lightning strikes.
- Protection is ensured with modular or Compact NSX circuit breakers or fuses.

PB115591



DB403871



PD020207\_1W



# Canalis KS range

## Classic offer

Standard and easily available products to create a simple run

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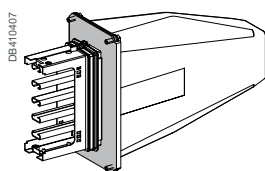
|                                        |         |
|----------------------------------------|---------|
| Description.....                       | page 25 |
| Overview .....                         | page 33 |
| Commercial numbers and dimensions..... | page 33 |

## Description

# Feed units and end covers

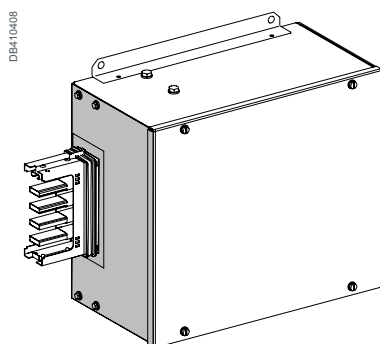
## From 100 to 1000 A

Used to feed a KS line by cables. They can be mounted at the end of a line (end feed, left or right) or in the middle (central feed).



### End feed unit for KS 100A trunking Type AB

For KS 100 A trunking only. It can be mounted on either side of a straight length. It is equipped with a PG 29 cable gland (equivalent to M32) and supplied with an end cover.

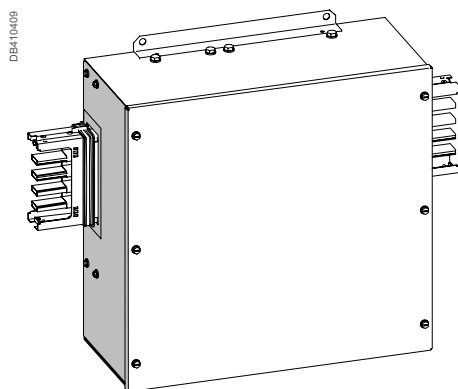


### End feed unit for horizontal or vertical trunking Type AB

For 250 to 400 A rating, it can be mounted on either side of a straight length. For 500 to 1000 A rating, two type of end feed units are available:

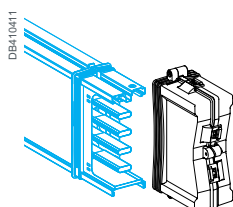
- left: ABG,
- right: ABD.

Supplied with an end cover.



### Centre feed unit Type ABT

Using a single cable, it is possible to feed both the right and left-hand sections. It is mounted between two straight lengths in the line and is supplied with two end covers.



### End cover Type AF

The end cover protects and isolates the ends of the conductors. It is mounted on the last component. Supplied with all feed units.

D



## Description

# Straight lengths with tap-off outlets & changing direction

## From 100 to 1000 A

Straight lengths and changing direction components are designed to carry the current and supply loads.

### Straight length

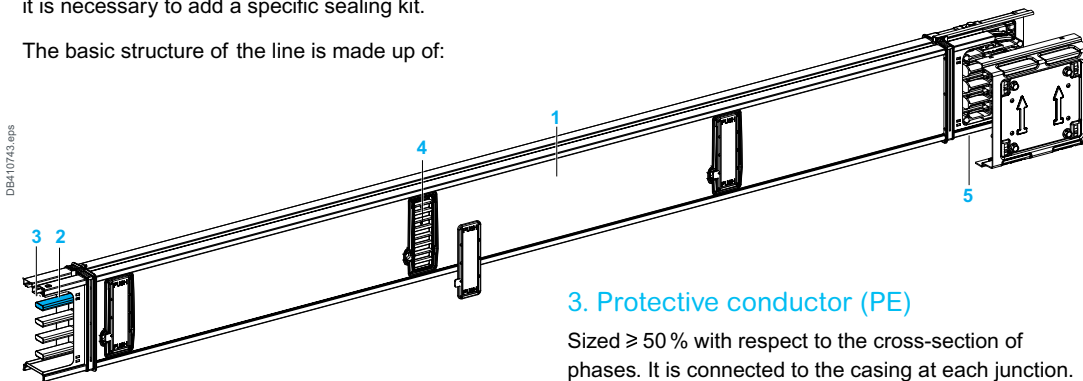
#### Type ED

Components of the Classic offer are available in eight ratings: 100, 160, 250, 400, 500, 630, 800 and 1000 A. Busbar trunking rated 100 to 400 A may be equipped with tap-off units up to 250 A. Higher rating busbar trunking elements may be equipped with the entire range of tap-off units.

All the insulating and plastic materials are halogen-free and have enhanced fire-withstand capabilities (incandescent wire test as per standard IEC 60695-2: 960 °C for components in contact with live parts and 650 °C for other components).

The degree of protection of the busbar trunking is IP55 for indoor installations. For the sprinkler protection, it is necessary to add a specific sealing kit.

The basic structure of the line is made up of:



#### 1. Casing, crimp closed, made of hot-galvanised sheet steel

Pre-lacquered RAL 9001 white, this casing, shaped and ribbed by roll-forming, provides excellent resistance to bending and twisting.

#### 2. Conductors

**For the 100 and 160 A rating:** silver-plated aluminium/copper bimetal laminate.

**For the 250 to 1000 A rating:** aluminium bars equipped with silver-plated aluminium/copper bimetal laminate contacts electrically welded at junctions and tap-off points.

#### 3. Protective conductor (PE)

Sized  $\geq 50\%$  with respect to the cross-section of phases. It is connected to the casing at each junction.

#### 4. Tap-off outlets

From 0.5 to 1 meter on both sides of the trunking.

#### 5. Mechanical and electrical jointing system

Electrical jointing is provided by a block with flexible grip contacts made of silver-plated copper.

This block equally absorbs the difference in conductor and casing thermal expansion for each length.

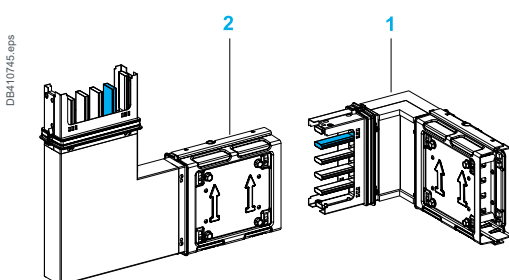
**For the 100 to 250 A rating,** the jointing system provides an automatic and simultaneous jointing of all live conductors and the continuity of the protective earth conductor.

**For the 400 to 1000 A rating,** electrical jointing is ensured by a quarter-turn locking mechanism for each conductor.

### Changing direction

#### Type DL

Used for simple change direction (turn right or left, go upward or downward), all components for changing direction are supplied with a junction block. The degree of protection of the busbar trunking is IP55 for indoor installations.



### Elbows

#### Standards

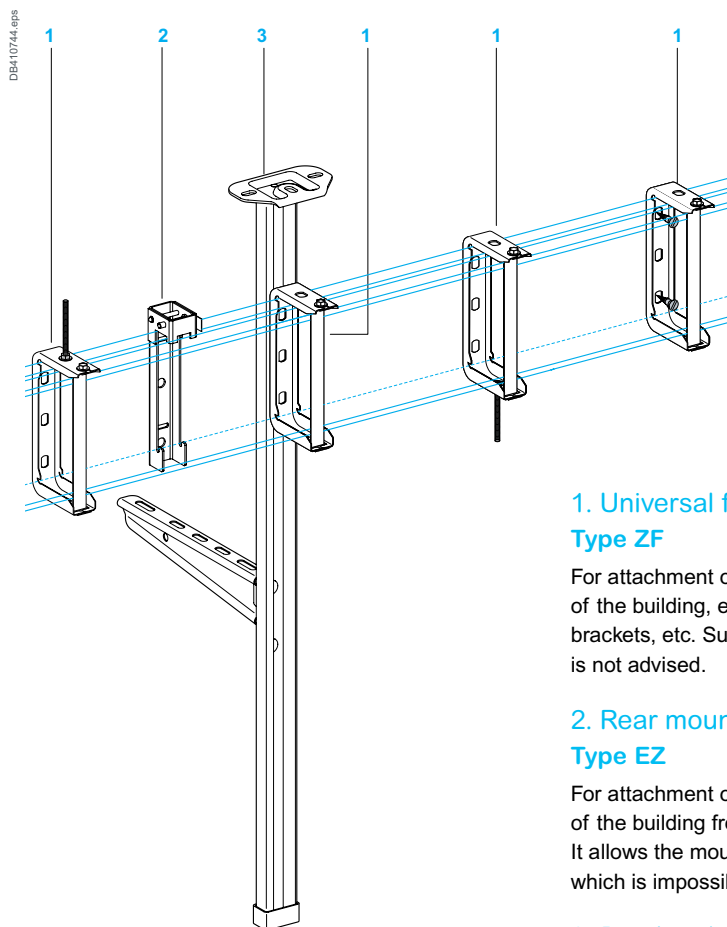
**1. Edgewise:** one model for turning right or for turning left.

**2. Flatwise:** two models, one for turning up and the other for turning down.

## Description

## Fixing systems for horizontal trunking

From 100 to 1000 A



## Advice

One fixing bracket every 3 meters is recommended.

## 1. Universal fixing bracket

## Type ZF

For attachment of the busbar trunking to the structure of the building, either directly or via a threaded rod, brackets, etc. Suspension using chains or steel cables is not advised.

## 2. Rear mounting bracket

## Type EZ

For attachment of the busbar trunking to the structure of the building from the rear of the busbar. It allows the mounting of small plastic tap-off units which is impossible with the universal fixing bracket.

## 3. Pendant kits and cantilever arm

## Type ZFKP and KFBKA

## The pendant kit includes:

- a perforated pendant used to suspend a KS line from the building structure, an IPN or the ceiling. Length: 1 m, width: 80 mm
- a cantilever arm that supports the cable tray under the KS line
- the mounting hardware required to fix the KS bracket and the cantilever arm to the pendant.

## Two kits are available:

- KS Rating up to 400 A: 200 mm cantilever arms
- KS Rating from 500 A to 1000 A: 300 mm cantilever arms. If necessary, additional cantilever arms can be ordered.

Cantilever arms can be ordered separately.

It exists 2 dimensions: 200 mm and 300 mm.

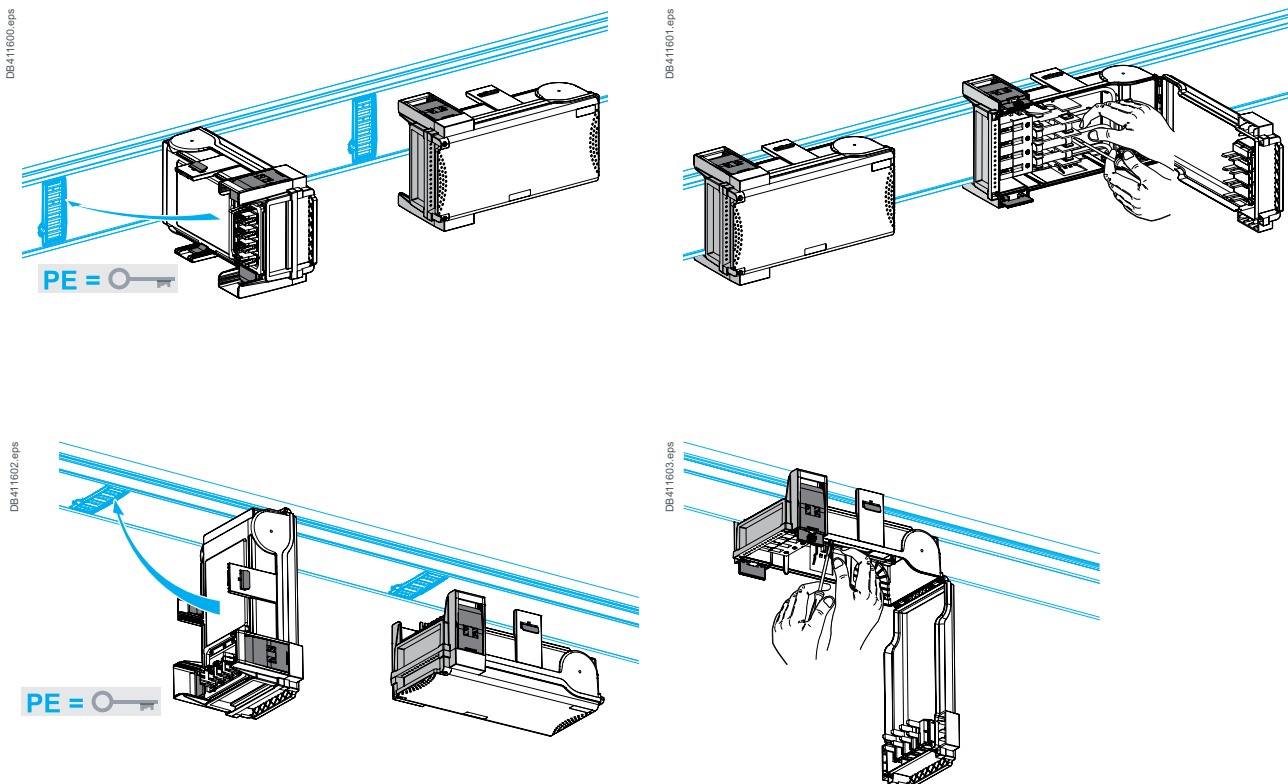
| Rating (A)  |  | Dimensions (mm) |                         |                       |                              |
|-------------|--|-----------------|-------------------------|-----------------------|------------------------------|
|             |  | Height          | Width (busbar trunking) | Width (jointing unit) | Length                       |
| 100 to 400  |  | 146             | 54                      | 63                    | 1500<br>2000<br>3000<br>5000 |
| 500 to 1000 |  | 146             | 113                     | 119                   | 1500<br>2000<br>3000<br>5000 |

## Description

# Tap-off units

## From 100 to 1000 A - General description

For rapid connection of loads or secondary lines, in compliance with installation standards IEC 60364 and regulations, whatever the system earthing arrangement (TT, TNS, TNC or IT). They can be handled and removed under off-load conditions with the trunking energised. Tap-off units can be assembled on either side when the busbar trunking is installed edgewise. It can also be installed on flatwise busbar trunking facing downwards. The tap-off outlets are automatically opened or closed when tap-off units are connected or removed. With the cover open, no live parts are accessible.



## Disconnection principle

### Disconnection by unplugging the tap-off unit.

The access to the electrical devices and the terminals is possible only when the tap-off unit is unplugged (i.e. not energised). An interlocking device restricts connection to the trunking when the cover has been removed.

**Disconnection of tap-off units with fuses and modular devices** (category AC22 to AC20) is obtained by opening the tap-unit cover.

### Tap-off unit disconnection by unplugging the tap-off unit or opening the cover should be carried out only if the downstream load is de-energised.

For tap-units with circuit breakers, **restricts:**

- plugging and unplugging in the tap-off unit when the cover is closed
- closing the cover before the tap-off unit is locked onto the trunking
- having access to the electrical equipment and the terminals when energised
- opening the cover in the position "ON" (tap-off units equipped with a Compact NSX or NG circuit breaker).

These tap-off units can be equipped with certain accessories such as circuit-opening contacts on the cover, lead seals, etc.

## Description

# Tap-off units

## From 100 to 1000 A - General description

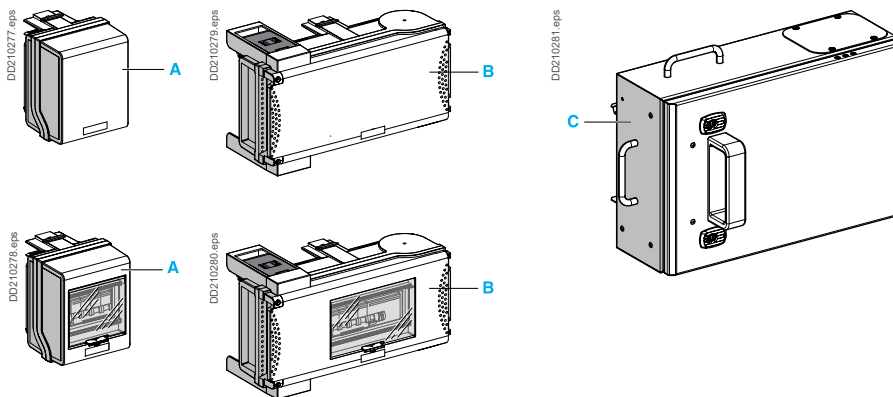
### 2 types of housing

#### 1. Connectors (A) and tap-off units with isolators (B) up to 100 A are made of plastic

- Colour: RAL 9001 white for the casing and the grip zones and transparent green for the cover. The fixing mechanisms are in RAL 7016.
- Material: self-extinguishing, **halogen free** insulating plastic (fire resistant and very high temperature withstand).
- Other characteristics: cable gland drilling zone, stainless steel screws and the door can be lead sealed.

#### 2. Tap-off units from 160 to 400 A are made of sheet steel (C)

- Colour: RAL 9001 white for the casing, RAL 9005 black for the grip zones (100 % polyester paint).
- Material: galvanised sheet steel.
- 400 A tap-off units can be only installed on straight lengths  $\geq 500$  A.
- Other characteristics:
  - removable cover with hinges enabling opening up to 120°, vertically bevelled cover with double bends for enhanced rigidity, polyurethane gaskets
  - equipped with cable-gland plates marked every 25 mm and designed for maximum access.



D



## Description

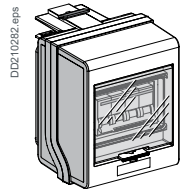
# Tap-off units

## From 100 to 1000 A - Specific description

Description of the Classic offer

### Tap-off units for circuit breakers (not included)

Tap-off unit covers can be lead sealed to restrict circuit breaker switching by unauthorised persons.

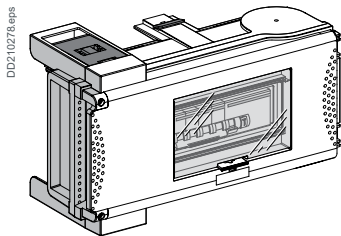


#### Connector for modular devices

##### Type CM

This connector can be equipped with most modular devices (18 mm wide) of the Acti 9 type:

- rated current: 32 A
- capacity: 5 modules
- with a window in front for visual and physical access to the devices.



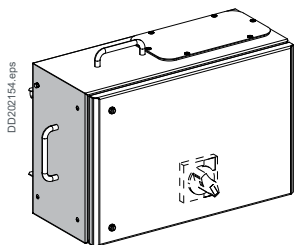
#### Tap-off units, with isolators, for modular devices

##### Type SM.8

These tap-off units accept most modular devices of the Acti9 type available in multiples of 18 mm wide modules.

They have a window in front for visual and physical access to the devices. Two ratings are available:

- rated current 63 A for eight modules
- rated current 100 A for twelve modules (can accept C120 circuit breakers).



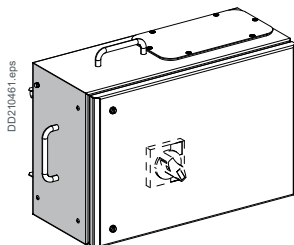
#### Tap-off units for NG type modular devices

##### Type SM.13

These tap-off units are equipped with a DIN rail and upstream connections to accept a NG circuit breaker.

The device is operated by a rotary handle that restricts door opening with the circuit breaker in "On" position.

- rated current: 160 A
- capacity: 13 modules (accepts NG125 or NG160 devices equipped with Vigi modules).

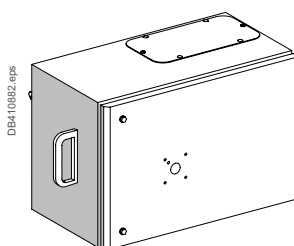


#### Tap-off units for Compact NSX circuit breaker

##### Type DC

These tap-off units are equipped with mounting plates and upstream connections for Compact NSX circuit breakers:

- rated current: 100 to 400 A – N, H or L versions
- fixed, front connection, rotary handle
- for Compact NSX + Vigi module, use tap-off units for measurements and metering.
- 400 A tap-off units can be only installed on straight lengths > 400 A.



#### Tap-off units for Compact NSXm circuit breaker

##### Type DM

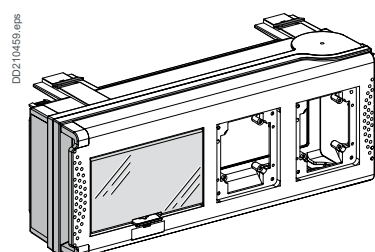
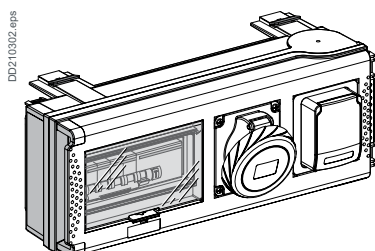
These tap-off units are equipped with mounting plates and upstream connections for Compact NSXm circuit breakers:

- rated current: 160 A – N, H or L versions
- fixed, front connection, rotary handle.

# Description

## Tap-off units

### From 100 to 1000 A - Specific description



#### Tap-off units with or for power sockets (circuit breakers not included)

##### Type CP

Tap-off unit covers can be lead sealed to restrict circuit breaker switching by unauthorised persons.

##### Canalis 32 A tap-off unit for power sockets

For the supply of portable loads equipped with household or industrial plugs in a garage, maintenance workshop, laboratory, battery charging room, etc. For installation on trunking mounted on a wall for better access. For easy access, install on trunking mounted at an appropriate height on the wall. Flexibility, upgradeability: positioned as close as possible to the loads, extension leads are not required.

**Degree of protection: IP55, IK08.**

**Protection of persons: IPxxB, earth-leakage protection.**

Rated current: 32 A

Capacity: 8 modules in multiples of 18 mm wide

Two versions are available:

- pre-equipped with 2 PK or PratiKa power sockets
- customisable:
  - two 90 x 100 mm openings for PK-type (screw connections) or PratiKa (fast and reliable connection without stripping) industrial or household sockets
  - direct mounting for industrial IEC 16 A 5P or IEC 32 A 3, 4 or 5P sockets
  - mounting on a 65 x 85 mm clip-on adapter plate for industrial IEC 16 A 3P or 5P and household 10/16 A 2P + PE sockets.

#### Tap-off units for fuses (not included)

##### 1. Tap-off unit with fuse holders

###### Type CN, CF, CG

This tap-off unit exists in three versions:

- for NF 10 x 38 fuses
- for BS type 88 A1 fuses
- for DIN type Neozed E14 fuses.

##### 2a and 2b Tap-off units, with isolator, for fuses

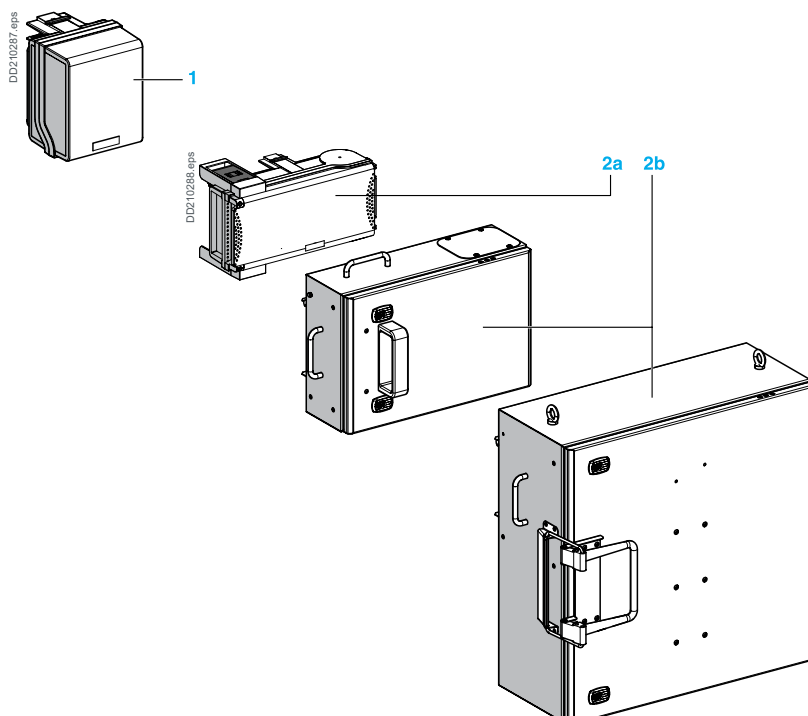
###### Type SN, SF, SG, SD, SE

There are two types of tap-off units:

Plastic tap-off units (2a) equipped with fuse holders for:

- NF 50 to 100 A cylindrical fuses
- BS 32 to 80 A screw fuses
- DIN 25 to 63 A screw fuses
- 100 A blade-type fuses.

Sheet-metal tap-off units (2b) equipped with fuse holders for 160 to 400 A blade-type fuses.



## Description

## Compatibility of tap-off units and busbar trunkings

| Distance between 2 outlets                                             |   | Case KS 100 to 400 A                                          |                                           | Case KS 500 to 1000 A |             |      |                                            |                       |             |
|------------------------------------------------------------------------|---|---------------------------------------------------------------|-------------------------------------------|-----------------------|-------------|------|--------------------------------------------|-----------------------|-------------|
| 1000 mm                                                                |   |                                                               |                                           |                       |             |      |                                            |                       |             |
| 3 m (6 outlets)<br>KSA100... 1000ED4306                                | ① |                                                               |                                           | ③                     |             |      |                                            |                       |             |
| 5 m (10 outlets)<br>KSA100... 1000ED45010                              |   |                                                               |                                           |                       |             |      |                                            |                       |             |
| 500 mm                                                                 |   |                                                               |                                           |                       |             |      |                                            |                       |             |
| 3 m (10 or 12 outlets)<br>KSA100... 400ED43012<br>KSA500... 800ED43010 | ② |                                                               |                                           | ④                     |             |      |                                            |                       |             |
| 5 m (18 or 20 outlets)<br>KSA100... 400ED45020<br>KSA500... 800ED45018 |   |                                                               |                                           |                       |             |      |                                            |                       |             |
|                                                                        |   | Case                                                          | KS 100 to 400 A - Mountings available on: |                       |             | Case | KS 500 to 1000 A - Mountings available on: |                       |             |
|                                                                        |   |                                                               | A                                         | B                     | C           |      | A                                          | B                     | C           |
|                                                                        |   |                                                               | 1st outlet                                | 2 consecutive outlets | Last outlet |      | 1st outlet                                 | 2 consecutive outlets | Last outlet |
| <br>W* = 135 mm                                                        | ① | ●                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | ●                                                             | ■                                         | ●                     | ④           | ●    | ■                                          | ●                     |             |
| <br>W = 434 mm                                                         | ① | ●                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | ●                                                             | ■                                         | X                     | ④           | ●    | ■                                          | X                     |             |
| <br>W = 357 mm                                                         | ① | ●                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | ●                                                             | ■                                         | ●                     | ④           | ●    | ■                                          | ●                     |             |
| <br>W = 444 mm                                                         | ① | ●                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | ●                                                             | ■                                         | X                     | ④           | ●    | ■                                          | X                     |             |
| <br>W = 450 mm                                                         | ① | X                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | X                                                             | ■                                         | X                     | ④           | ●    | ■                                          | X                     |             |
| <br>W = 500 mm                                                         | ① | X                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | X                                                             | △                                         | X                     | ④           | ●    | △                                          | X                     |             |
| <br>W = 600 mm                                                         | ① | X                                                             | ■                                         | ●                     | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② | X                                                             | △                                         | X                     | ④           | ●    | △                                          | X                     |             |
| <br>W = 600 mm                                                         | ① | Impossible to fit a 400A tap-of unit on a busway 100 to 400 A |                                           |                       | ③           | ●    | ■                                          | ●                     |             |
|                                                                        | ② |                                                               |                                           |                       | ④           | ●    | △                                          | X                     |             |
| <br>W = 700 mm                                                         | ① | Impossible to fit a 400A tap-of unit on a busway 100 to 400 A |                                           |                       | ③           | ●    | ■                                          | X                     |             |
|                                                                        | ② |                                                               |                                           |                       | ④           | ●    | △                                          | X                     |             |

\* W = width of the tap-off unit

- The tap-off unit can be mounted at this position
- The right outlet is available for another tap-off unit
- △ The right outlet is hidden by the tap-off unit
- X Impossible to mount this tap-off unit at this position

## Offer overview

## Busbar ratings (A)

| 100 | 160 | 250 | 400 | 500 | 630 | 800 | 1000 |
|-----|-----|-----|-----|-----|-----|-----|------|
|-----|-----|-----|-----|-----|-----|-----|------|

## Feed units

## Mounted on the busway

Without line protection - 3L+N+PE

|                  |            |            |            |            |            |            |             |             |
|------------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| Right mounting   | KSA100AB4  | KSA250AB4  | KSA250AB4  | KSA400AB4  | KSA630ABD4 | KSA630ABD4 | KSA1000ABD4 | KSA1000ABD4 |
| Left mounting    | KSA100AB4  | KSA250AB4  | KSA250AB4  | KSA400AB4  | KSA630ABG4 | KSA630ABG4 | KSA1000ABG4 | KSA1000ABG4 |
| Central mounting | KSA250ABT4 | KSA250ABT4 | KSA250ABT4 | KSA400ABT4 | KSA630ABT4 | KSA630ABT4 | KSA1000ABT4 | KSA1000ABT4 |

## Straight lengths

## Horizontal mounting for distribution

With Standard density outlets - 3L+N+PE

|                      |               |               |               |               |               |               |               |                |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 3000 mm (6 outlets)  | KSA100ED4306  | KSA160ED4306  | KSA250ED4306  | KSA400ED4306  | KSA500ED4306  | KSA630ED4306  | KSA800ED4306  | KSA1000ED4306  |
| 3000 mm (7 outlets)  | -             | -             | -             | -             | -             | KSA630ED4307  | -             | -              |
| 5000 mm (10 outlets) | KSA100ED45010 | KSA160ED45010 | KSA250ED45010 | KSA400ED45010 | KSA500ED45010 | KSA630ED45010 | KSA800ED45010 | KSA1000ED45010 |
| 5000 mm (11 outlets) | -             | -             | -             | -             | -             | KSA630ED45011 | -             | -              |

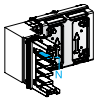
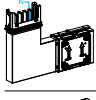
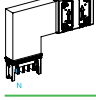
With High density outlets - 3L+N+PE

|                            |               |               |               |               |               |               |               |   |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| 3000 mm (12 or 10 outlets) | KSA100ED43012 | KSA160ED43012 | KSA250ED43012 | KSA400ED43012 | KSA500ED43010 | KSA630ED43010 | KSA800ED43010 | - |
| 5000 mm (20 or 18 outlets) | KSA100ED45020 | KSA160ED45020 | KSA250ED45020 | KSA400ED45020 | KSA500ED45018 | KSA630ED45018 | KSA800ED45018 | - |

## Change direction elements

## Elbows

To turn at 90° (edgewise position) - 3L+N+PE

|                                                                                     |                           |              |              |              |                           |              |               |               |
|-------------------------------------------------------------------------------------|---------------------------|--------------|--------------|--------------|---------------------------|--------------|---------------|---------------|
|  | 165 x 165<br>KSA250DLC401 | KSA250DLC401 | KSA250DLC401 | KSA400DLC401 | 290 x 290<br>KSA630DLC401 | KSA630DLC401 | KSA1000DLC401 | KSA1000DLC401 |
|  | 250 x 250<br>KSA250DLE401 | KSA250DLE401 | KSA250DLE401 | KSA400DLE401 | 290 x 290<br>KSA630DLE401 | KSA630DLE401 | KSA1000DLE401 | KSA1000DLE401 |
|  | 250 x 250<br>KSA250DLF401 | KSA250DLF401 | KSA250DLF401 | KSA400DLF401 | 290 x 290<br>KSA630DLF401 | KSA630DLF401 | KSA1000DLF401 | KSA1000DLF401 |

## Fixing brackets and supports

## For horizontal installation

Fixing brackets

|                           |           |           |           |           |            |            |            |            |
|---------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| Universal fixing brackets | KSB400ZF1 | KSB400ZF1 | KSB400ZF1 | KSB400ZF1 | KSB1000ZF1 | KSB1000ZF1 | KSB1000ZF1 | KSB1000ZF1 |
| Rear fixing bracket       | KSA80EZ5  | KSA80EZ5  | KSA80EZ5  | KSA80EZ5  | KSA80EZ5   | KSA80EZ5   | KSA80EZ5   | KSA80EZ5   |

Supports

|                       |             |             |             |             |              |              |              |              |
|-----------------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| Cantilever Arm 200 mm | KFBCA81200  | KFBCA81200  | KFBCA81200  | KFBCA81200  | KFBCA81200   | KFBCA81200   | KFBCA81200   | KFBCA81200   |
| Cantilever Arm 300 mm | KFBCA81300  | KFBCA81300  | KFBCA81300  | KFBCA81300  | KFBCA81300   | KFBCA81300   | KFBCA81300   | KFBCA81300   |
| Pendant kits          | KSB400ZFKP1 | KSB400ZFKP1 | KSB400ZFKP1 | KSB400ZFKP1 | KSB1000ZFKP1 | KSB1000ZFKP1 | KSB1000ZFKP1 | KSB1000ZFKP1 |

## Accessories

## For current KS offer

IP kits

|                                  |           |           |           |           |            |            |            |            |
|----------------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| IP55 blanking plates for outlets | KSB400ZB1 | KSB400ZB1 | KSB400ZB1 | KSB400ZB1 | KSB1000ZB1 | KSB1000ZB1 | KSB1000ZB1 | KSB1000ZB1 |
| Sprinkler proofing kit           | KSB400ZB2 | KSB400ZB2 | KSB400ZB2 | KSB400ZB2 | KSB1000ZB2 | KSB1000ZB2 | KSB1000ZB2 | KSB1000ZB2 |
| End covers                       | KSA400AF1 | KSA400AF1 | KSA400AF1 | KSA400AF1 | KSA1000AF1 | KSA1000AF1 | KSA1000AF1 | KSA1000AF1 |

Sealing kits

|             |            |            |            |            |            |            |            |            |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| For screws  | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 | KSB1000ZP1 |
| For outlets | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 | KSB1000ZP2 |

Joint blocks - 3L+N+PE

|                                          |           |           |           |           |           |           |            |            |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Electrical and mechanical jointing units | KSA250ZJ4 | KSA250ZJ4 | KSA250ZJ4 | KSA400ZJ4 | KSA630ZJ4 | KSA630ZJ4 | KSA1000ZJ4 | KSA1000ZJ4 |
|------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|

"KS-.....": Reference specifically adapted to the rating of the busbar trunking

"KS-.....": Compatible reference with the rating of the busbar trunking

## Offer overview

### Busbar ratings (A)

| Polarity | 100 | 160 | 250 | 400 | 500 | 630 | 800 | 1000 |
|----------|-----|-----|-----|-----|-----|-----|-----|------|
|----------|-----|-----|-----|-----|-----|-----|-----|------|

### Connectors & Tap-off units \*

#### Disconnection by unplugging the connector

Delivered equipped with a fuse holder

|                    |      |        |          |          |
|--------------------|------|--------|----------|----------|
| For BS/NF/NZ fuses | 16 A | 3L+PEN | KSB16CN5 | KSB16CN5 |
|                    | 20 A |        | KSB20CG5 | KSB20CG5 |
|                    | 32 A |        | KSB32CF5 | KSB32CF5 |

Delivered equipped with a DIN rail

|                                               |      |         |            |            |
|-----------------------------------------------|------|---------|------------|------------|
| For 5 modular devices 18 mm                   | 32 A | 3L+N+PE | KSB32CM55  | KSB32CM55  |
| For 8 modular devices 18 mm and power sockets | 32 A | 3L+N+PE | KSB32CP    | KSB32CP    |
|                                               |      |         | KSB32CP15F | KSB32CP15F |
|                                               |      |         | KSB32CP15D | KSB32CP15D |
|                                               |      |         | KSB32CP35  | KSB32CP35  |
|                                               |      |         | KSB32CP11F | KSB32CP11F |
|                                               |      |         | KSB32CP11D | KSB32CP11D |

#### Disconnection by opening the door

Delivered equipped with a fuse holder

|                            |       |         |           |           |
|----------------------------|-------|---------|-----------|-----------|
| For BS fuses               | 32 A  | 3L+N+PE | KSB32SG4  | KSB32SG4  |
|                            | 80 A  |         | KSB80SG4  | KSB80SG4  |
|                            | 160 A |         | KSB160SG4 | KSB160SG4 |
| For NF fuses (Cylindrical) | 50 A  | 3L+N+PE | KSB50SF4  | KSB50SF4  |
|                            |       | 3L+PEN  | KSB50SF5  | KSB50SF5  |
|                            | 100 A | 3L+N+PE | KSB100SF4 | KSB100SF4 |
|                            |       | 3L+PEN  | KSB100SF5 | KSB100SF5 |
| For NZ/DZ fuses            | 25 A  | 3L+N+PE | KSB25SD4  | KSB25SD4  |
|                            |       | 3L+PEN  | KSB25SD5  | KSB25SD5  |
|                            | 50 A  | 3L+N+PE | KSB50SN4  | KSB50SN4  |
|                            |       | 3L+PEN  | KSB50SN5  | KSB50SN5  |
|                            | 63 A  | 3L+N+PE | KSB63SD4  | KSB63SD4  |
|                            |       | 3L+PEN  | KSB63SD5  | KSB63SD5  |
| For Blade-type fuses       | 100 A | 3L+N+PE | KSB100SE4 | KSB100SE4 |
|                            |       | 3L+PEN  | KSB100SE5 | KSB100SE5 |
|                            | 160 A | 3L+N+PE | KSB160SF4 | KSB160SF4 |
|                            |       |         | KSB160SE4 | KSB160SE4 |
|                            |       | 3L+PEN  | KSB160SF5 | KSB160SF5 |
|                            |       |         | KSB160SE5 | KSB160SE5 |
|                            | 250 A | 3L+N+PE | KSB250SE4 | KSB250SE4 |
|                            |       | 3L+PEN  | KSB250SE5 | KSB250SE5 |
|                            | 400 A | 3L+N+PE | -         | KSB400SE4 |
|                            |       | 3L+PEN  | -         | KSB400SE5 |

Delivered equipped with a DIN rail

|                           |         |         |             |             |
|---------------------------|---------|---------|-------------|-------------|
| For 18 mm modular devices | 63 A    | 3L+N+PE | KSB63SM48   | KSB63SM48   |
|                           | 8 mod.  | 3L+PEN  | KSB63SM58   | KSB63SM58   |
|                           | 100 A   | 3L+N+PE | KSB100SM412 | KSB100SM412 |
|                           | 12 mod. | 3L+PEN  | KSB100SM512 | KSB100SM512 |

#### Switching with a rotary handle located on the door

Delivered equipped with a mounting plate for 1 circuit breaker

|                            |       |         |             |             |
|----------------------------|-------|---------|-------------|-------------|
| For NG circuit breaker     | 160 A | 3L+N+PE | KSB160SM413 | KSB160SM413 |
|                            |       | 3L+PEN  | KSB160SM513 | KSB160SM513 |
| For NSX circuit breaker 4P | 160 A | 3L+N+PE | KSB160DC4   | KSB160DC4   |
|                            | 250 A |         | KSB250DC4   | KSB250DC4   |
|                            | 400 A |         | -           | KSB400DC4   |
| For NSX circuit breaker 3P | 160 A | 3L+PEN  | KSB160DC5   | KSB160DC5   |
|                            | 250 A |         | KSB250DC5   | KSB250DC5   |
|                            | 400 A |         | -           | KSB400DC5   |
| For NSXm circuit breaker   | 160 A | 3L+N+PE | KSB160DM4   | KSB160DM4   |
|                            |       | 3L+PEN  | KSB160DM5   | KSB160DM5   |

\* See compatibility page for mounting limitations

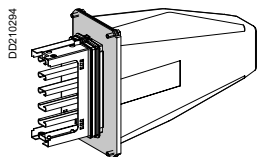


D

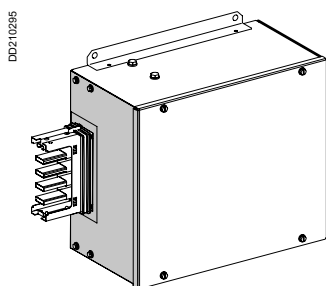
## Classic offer

## Feed units

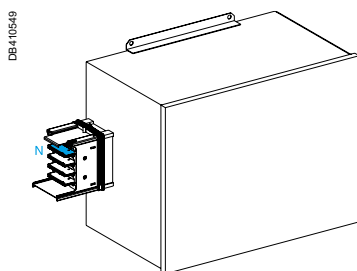
## Right mounting



KSA100AB4



KSA250 and 400 AB4



KSA630 and 1000 ABD

Mounted on the busway  
Without line protection

| Cat. n°         | KSA100AB4     | KSA250AB4     | KSA400AB4 | KSA630ABD4     | KSA1000ABD4    |
|-----------------|---------------|---------------|-----------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA100 to 250 | KSA400    | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|
| A in the line (mm) | 390 | 501 | 501 | 753 | 753 |
|--------------------|-----|-----|-----|-----|-----|

|               |             |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 100         | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |             |

## Cabling

|                                |      |      |      |      |      |
|--------------------------------|------|------|------|------|------|
| Protection Type (Not Supplied) | None | None | None | None | None |
|--------------------------------|------|------|------|------|------|

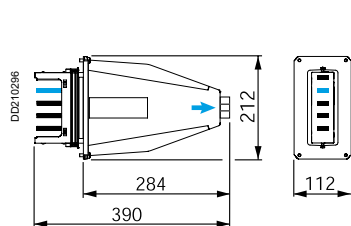
|                                       |                                        |                                                                    |                                                                    |                                                                    |                                                                    |
|---------------------------------------|----------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Input Type                            | Cable Gland PG29                       | Alu. plate<br>300 x 170 x 3                                        | Alu. plate<br>340 x 208 x 3                                        | Alu. plate<br>446 x 276 x 3                                        | Alu. plate<br>446 x 358 x 3                                        |
| Available Area (mm)                   | Ø 37.5 mm                              | 240 x 130                                                          | 280 x 160                                                          | 386 x 240                                                          | 386 x 320                                                          |
| Maximum Cable size (mm <sup>2</sup> ) | Cable max Ø 23mm                       | 4 x 240                                                            | 4 x 300 or 8 x 120                                                 | 4 x 300 or 8 x 240                                                 | 12 x 300                                                           |
| Connection                            | Mechanical lugs<br>(Zinc plated steel) | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars |
| Capability Per Phase                  | 16 mm <sup>2</sup>                     | 1 x Ø 13 mm (L) + 1 x Ø 8 mm (PE)                                  | 1 x Ø 13 mm (L) + 2 x Ø 11 mm (PE)                                 | 3 x Ø 14 mm (L) + 3 x Ø 11 mm (PE)                                 | 4 x Ø 15 mm (L) + 4 x Ø 10 mm (PE)                                 |

|   |                             |                             |                             |                             |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| - | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

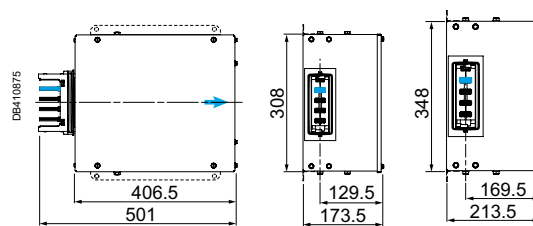
## Additional Characteristics

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White | White |
| Weight (kg)  | 1,8   | 8     | 11,2  | 22    | 25    |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

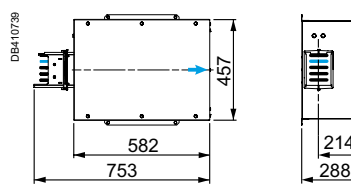
All feed units are supplied with an End cover



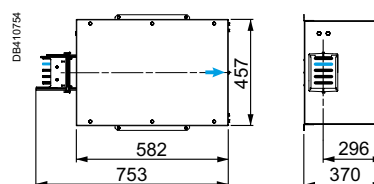
KSA100AB4



KSA250 and 400 AB4



KSA630ABD4

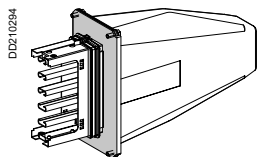


KSA1000ABD4

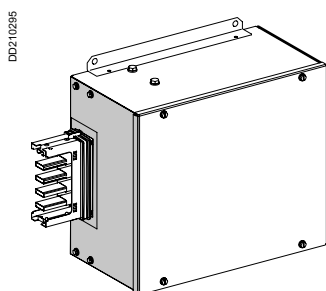
# Classic offer

## Feed units

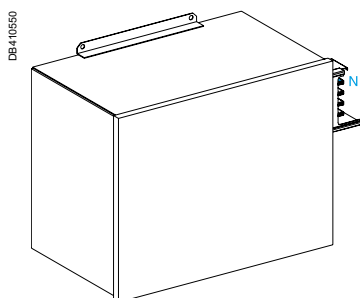
### Left mounting



KSA100AB4



KSA250 and 400 AB4



KSA630 and 1000 ABG

#### Mounted on the busway Without line protection

| Cat. n°         | KSA100AB4     | KSA250AB4     | KSA400AB4 | KSA630ABG4     | KSA1000ABG4    |
|-----------------|---------------|---------------|-----------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA100 to 250 | KSA400    | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|
| A in the line (mm) | 390 | 501 | 501 | 753 | 753 |
|--------------------|-----|-----|-----|-----|-----|

|               |             |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 100         | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |             |

#### Cabling

|                                |      |      |      |      |      |
|--------------------------------|------|------|------|------|------|
| Protection Type (Not Supplied) | None | None | None | None | None |
|--------------------------------|------|------|------|------|------|

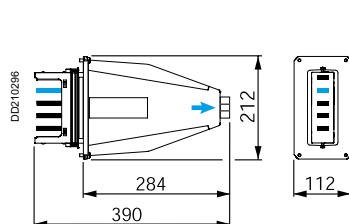
|                                       |                                        |                                                                       |                                                                       |                                                                       |                                                                       |
|---------------------------------------|----------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Input Type                            | Cable Gland PG29                       | Alu. plate<br>300 x 170 x 3                                           | Alu. plate<br>340 x 208 x 3                                           | Alu. plate<br>446 x 276 x 3                                           | Alu. plate<br>446 x 358 x 3                                           |
| Available Area (mm)                   | Ø 37.5 mm                              | 240 x 130                                                             | 280 x 160                                                             | 386 x 240                                                             | 386 x 320                                                             |
| Maximum Cable size (mm <sup>2</sup> ) | Cable max. Ø 23 mm                     | 4 x 240                                                               | 4 x 300 or 8 x 120                                                    | 4 x 300 or 8 x 240                                                    | 12 x 300                                                              |
| Connection                            | Mechanical lugs<br>(Zinc plated steel) | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum bars |
| Capability Per Phase                  | 16 mm <sup>2</sup>                     | 1 x Ø 13 mm (L) +<br>1 x Ø 8 mm (PE)                                  | 1 x Ø 13 mm (L) +<br>2 x Ø 11 mm (PE)                                 | 3 x Ø 14 mm (L) +<br>3 x Ø 11 mm (PE)                                 | 4 x Ø 15 mm (L) +<br>4 x Ø 10 mm (PE)                                 |

|   |                             |                             |                             |                             |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| - | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included | <sup>(1)</sup> Not included |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

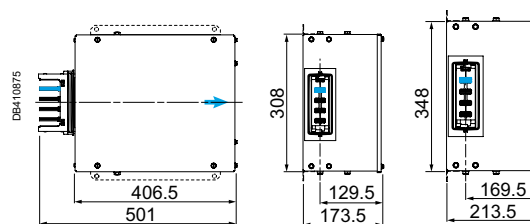
#### Additional Characteristics

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White | White |
| Weight (kg)  | 1,8   | 8     | 11,2  | 23    | 25    |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

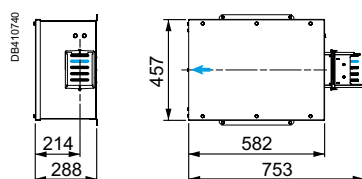
All feed units are supplied with an End cover



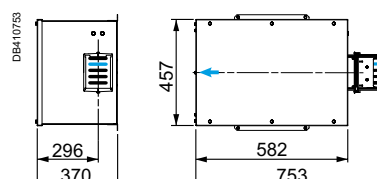
KSA100AB4



KSA250 and 400 AB4



KSA630ABG4



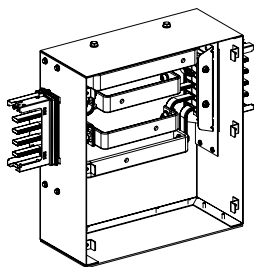
KSA1000ABG4

## Classic offer

## Feed units

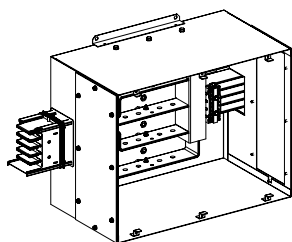
## Central mounting

DD210304



KSA250 and 400 ABT

DD202049



KSA630 and 1000 ABT

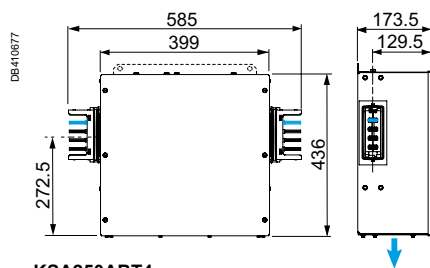
**Mounted on the busway**  
**Without line protection**

| Cat. n°                               | KSA250ABT4                                                         | KSA400ABT4                                                         | KSA630ABT4                                                         | KSA1000ABT4                                                        |
|---------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Compatible with                       | KSA100 to 250                                                      | KSA400                                                             | KSA500 to 1000                                                     | KSA500 to 1000                                                     |
| A in the line (mm)                    | 585                                                                | 688                                                                | 1001                                                               | 1101                                                               |
| Rating (A)                            | 250                                                                | 400                                                                | 630                                                                | 1000                                                               |
| Polarity                              | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        |
| Phase Diagram                         |                                                                    |                                                                    |                                                                    |                                                                    |
| <b>Cabling</b>                        |                                                                    |                                                                    |                                                                    |                                                                    |
| Protection Type (Not Supplied)        | None                                                               | None                                                               | None                                                               | None                                                               |
| Input Type                            | Alu. plate<br>390 x 168 x 3                                        | Alu. plate<br>491 x 208 x 3                                        | 2 x Alu. plates<br>502 x 227 x 3                                   | 2 x Alu. plates<br>552 x 252 x 3                                   |
| Available Area (mm)                   | 330 x 120                                                          | 430 x 170                                                          | 2 x (440 x 180)                                                    | 2 x (390 x 210)                                                    |
| Maximum Cable size (mm <sup>2</sup> ) | 4 x 240                                                            | 8 x 240                                                            | 12 x 300                                                           | 16 x 300                                                           |
| Connection                            | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars |
| Capability Per Phase                  | 1 x Ø9 mm (L) + 1 x Ø8 mm (PE)                                     | 2 x Ø13 mm (L) + 2 x Ø11 mm (PE)                                   | 4 x Ø14 mm (L) + 4 x Ø9 mm (PE)                                    | 4 x Ø14 mm (L) + 4 x Ø9 mm (PE)                                    |
|                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       |

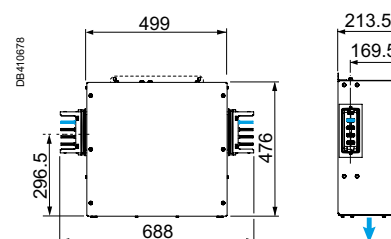
**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 13    | 16,4  | 32    | 43    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

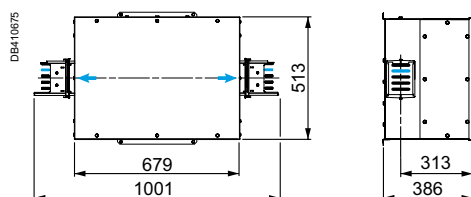
All Central feed units are supplied with Two End covers



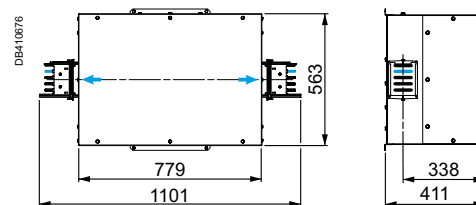
KSA250ABT4



KSA400ABT4



KSA630ABT4



KSA1000ABT4



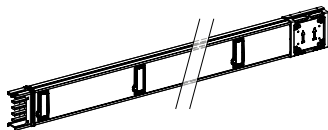


## Classic offer

## Straight lengths

## With Standard density outlets - 3 m

DB410751



KSA100 to 400 ED •30

**For Distribution**  
**Horizontal mounting**

| Cat. n°            | KSA100ED4306  | KSA160ED4306  | KSA250ED4306  | KSA400ED4306 |
|--------------------|---------------|---------------|---------------|--------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA100 to 250 | KSA400       |
| A in the line (mm) | 3000          | 3000          | 3000          | 3000         |
| Rating (A)         | 100           | 160           | 250           | 400          |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   | 3L + N + PE  |

**Characteristics**

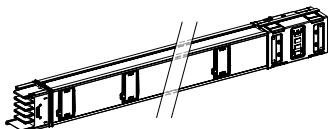
|                       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Number Of Outlet(s)   | 6              | 6              | 6              | 6              |
| Outlet(s) Position    | 3 on each side | 3 on each side | 3 on each side | 3 on each side |
| Distance Between 1000 | 1000           | 1000           | 1000           | 1000           |
| Outlets (mm)          |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              |

**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 12,1  | 13,4  | 15,7  | 20,4  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

## With Standard density outlets - 3 m

DB410752



KSA500 to 1000 ED •30

**For Distribution**  
**Horizontal mounting**

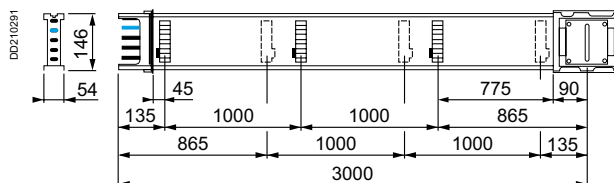
| Cat. n°            | KSA500ED4306   | KSA630ED4306   | KSA800ED4306   | KSA1000ED4306  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 3000           | 3000           | 3000           | 3000           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

**Characteristics**

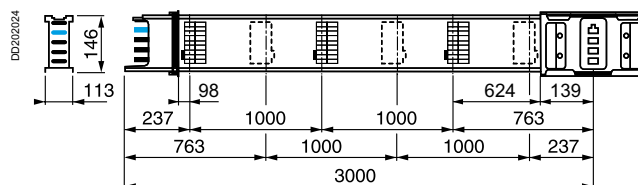
|                       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Number Of Outlet(s)   | 6              | 6              | 6              | 6              |
| Outlet(s) Position    | 3 on each side | 3 on each side | 3 on each side | 3 on each side |
| Distance Between 1000 | 1000           | 1000           | 1000           | 1000           |
| Outlets (mm)          |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              |

**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 34,9  | 36,4  | 43,1  | 55,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



KSA100 to 400 ED •30



KSA500 to 1000 ED •30

## Straight lengths

A technical drawing of a long, narrow mechanical component, possibly a beam or rail. It features a central section with a break symbol (two parallel diagonal lines) indicating that the component is longer than shown. The component has a series of vertical supports or brackets along its length and a complex end fitting on the right side.

**KSA100 to 400 ED •50**

| Cat. n°            | KSA100ED45010 | KSA160ED45010 | KSA250ED45010 | KSA400ED45010 |
|--------------------|---------------|---------------|---------------|---------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA100 to 250 | KSA400        |
| A in the line (mm) | 5000          | 5000          | 5000          | 5000          |
| Rating (A)         | 100           | 160           | 250           | 400           |
| Polaritv           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   |

| Characteristics       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Number                | 10             | 10             | 10             | 10             |
| Of Outlet(s)          |                |                |                |                |
| Outlet(s) Position    | 5 on each side | 5 on each side | 5 on each side | 5 on each side |
| Distance Between      | 1000           | 1000           | 1000           | 1000           |
| Outlets (mm)          |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              |

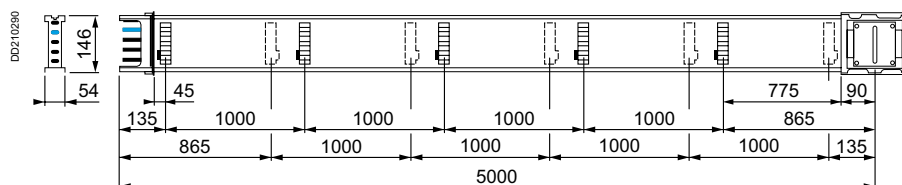
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 19,2  | 21,4  | 24,9  | 32,85 |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

**KSA500 to 1000 ED •50**

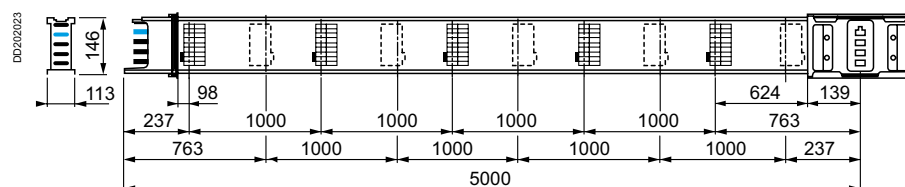
| Cat. n°            | KSA500ED45010  | KSA630ED45010  | KSA800ED45010  | KSA1000ED45010 |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 5000           | 5000           | 5000           | 5000           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

| Characteristics       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Number                | 10             | 10             | 10             | 10             |
| Of Outlet(s)          |                |                |                |                |
| Outlet(s) Position    | 5 on each side | 5 on each side | 5 on each side | 5 on each side |
| Distance Between      | 1000           | 1000           | 1000           | 1000           |
| Outlets (mm)          |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 54,5  | 58,2  | 69,2  | 89,5  |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |



KSA100 to 400 ED •50



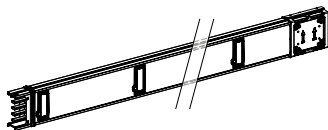
KSA500 to 1000 ED •50

## Classic offer

## Straight lengths

## With High density outlets - 3 m

DB410751



KSA100 to 400 ED •30

For Distribution  
Horizontal mounting

| Cat. n°            | KSA100ED43012 | KSA160ED43012 | KSA250ED43012 | KSA400ED43012 |
|--------------------|---------------|---------------|---------------|---------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA100 to 250 | KSA400        |
| A in the line (mm) | 3000          | 3000          | 3000          | 3000          |
| Rating (A)         | 100           | 160           | 250           | 400           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   |

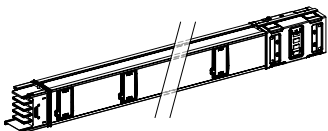
## Characteristics

|                       |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|
| Number Of Outlet(s)   | 12             | 12             | 12             | 12             |
| Outlet(s) Position    | 6 on each side | 6 on each side | 6 on each side | 6 on each side |
| Distance Between 500  | 500            | 500            | 500            | 500            |
| Outlets (mm)          |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 12,1  | 13,4  | 15,7  | 20    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

DB410752



KSA500 to 800 ED •30

For Distribution  
Horizontal mounting

| Cat. n°            | KSA500ED43010  | KSA630ED4307   | KSA630ED43010  | KSA800ED43010  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 3000           | 3000           | 3000           | 3000           |
| Rating (A)         | 500            | 630            | 630            | 800            |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

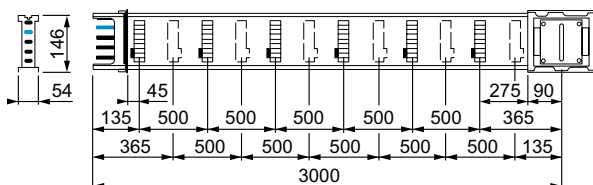
## Characteristics

|                             |                |                           |                |                |
|-----------------------------|----------------|---------------------------|----------------|----------------|
| Number Of Outlet(s)         | 10             | 7                         | 10             | 10             |
| Outlet(s) Position          | 5 on each side | One side 5 & other side 2 | 5 on each side | 5 on each side |
| Distance Between 500 or 750 | 500 or 1750    | 500 or 1750               | 500 or 750     | 500 or 750     |
| Outlets (mm)                |                |                           |                |                |
| Fire Barrier                | No             | No                        | No             | No             |
| Fire Barrier Position       | -              | -                         | -              | -              |

## Additional Characteristics

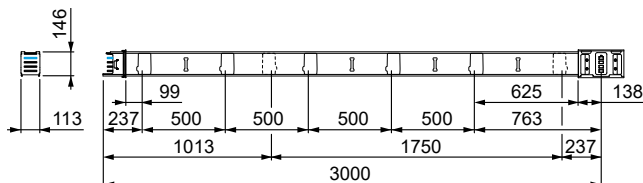
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 34,9  | 36,4  | 36,4  | 43,1  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

DD230169



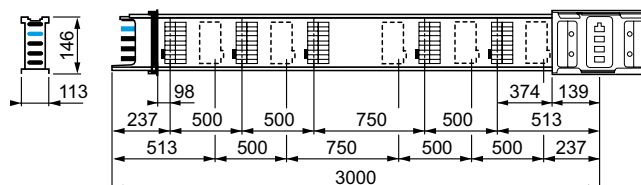
KSA100 to 400 ED •30

DB411595



KSA630ED4307

DB413612



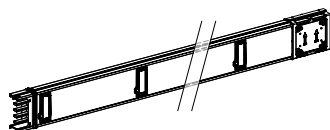
KSA500 to 800 ED •30

## Classic offer

## Straight lengths

With High density outlets - 5 m

08410751



KSA100 to 400 ED •50

**For Distribution**  
**Horizontal mounting**

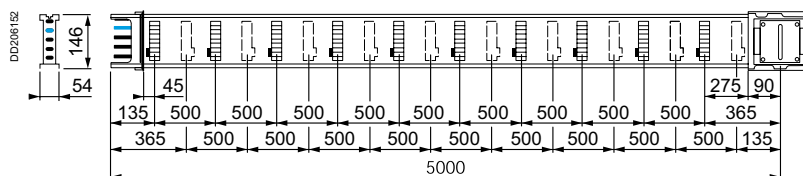
| Cat. n°            | KSA100ED45020 | KSA160ED45020 | KSA250ED45020 | KSA400ED45020 |
|--------------------|---------------|---------------|---------------|---------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA100 to 250 | KSA400        |
| A in the line (mm) | 5000          | 5000          | 5000          | 5000          |
| Rating (A)         | 100           | 160           | 250           | 400           |
| Polaritv           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   | 3L + N + PE   |

### Characteristics

| Characteristics               | 1               | 2               | 3               | 4               |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Number Of Outlet(s)           | 20              | 20              | 20              | 20              |
| Outlet(s) Position            | 10 on each side | 10 on each side | 10 on each side | 10 on each side |
| Distance Between Outlets (mm) | 500             | 500             | 500             | 500             |
| Fire Barrier                  | No              | No              | No              | No              |
| Fire Barrier Position         | -               | -               | -               | -               |

### Additional Characteristics

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 19,2  | 21,4  | 25,2  | 32,85 |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |



KSA100 to 400 ED •50

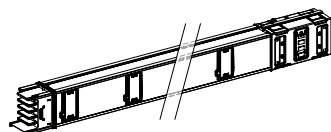
D

## Classic offer

## Straight lengths

## With High density outlets - 5 m

DB410752



KSA500 to 800 ED •50

For Distribution  
Horizontal mounting

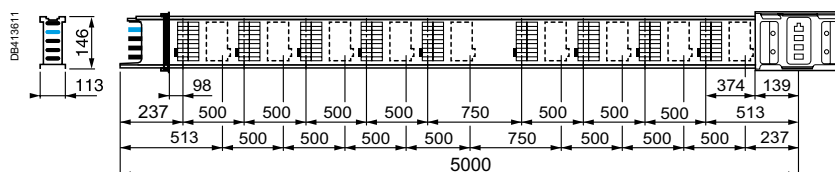
| Cat. n°            | KSA500ED45018  | KSA630ED45011  | KSA630ED45018  | KSA800ED45018  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 5000           | 5000           | 5000           | 5000           |
| Rating (A)         | 500            | 630            | 630            | 800            |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

## Characteristics

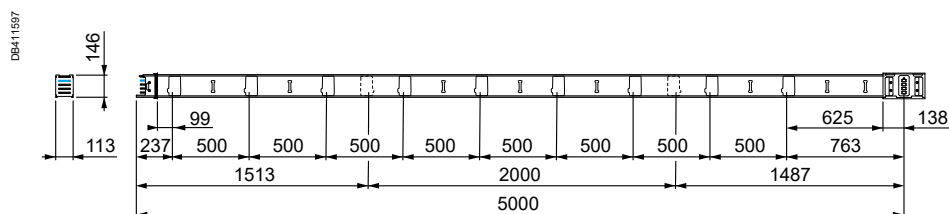
|                       |                |                           |                |                |
|-----------------------|----------------|---------------------------|----------------|----------------|
| Number                | 18             | 11                        | 18             | 18             |
| Of Outlet(s)          |                |                           |                |                |
| Outlet(s) Position    | 9 on each side | One side 9 & other side 2 | 9 on each side | 9 on each side |
| Distance Between      | 500 or 750     | 500 or 2000               | 500 or 750     | 500 or 750     |
| Outlets (mm)          |                |                           |                |                |
| Fire Barrier          | No             | No                        | No             | No             |
| Fire Barrier Position | -              | -                         | -              | -              |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 54,5  | 36,4  | 58,2  | 69,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



KSA500 to 800 ED •50



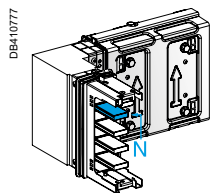
KSA630ED45011



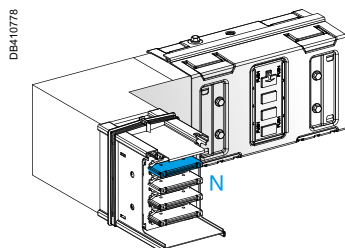
# Classic offer

## Change direction elements

### Elbows



KSA100 to 400 DLC 401



KSA500 to 1000 DLC 401

#### To turn Right or Left at 90° (Edgewise position) Fixed dimensions

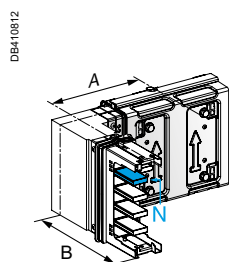
| Cat. n°            | KSA250DLC401  | KSA400DLC401 | KSA630DLC401   | KSA1000DLC401  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 330           | 330          | 580            | 580            |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

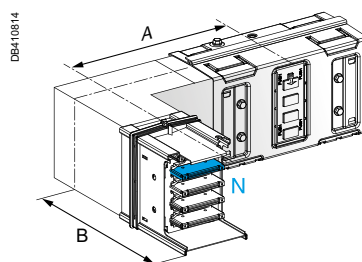
|                       |     |     |     |     |
|-----------------------|-----|-----|-----|-----|
| A (mm)                | 165 | 165 | 290 | 290 |
| B (mm)                | 165 | 165 | 290 | 290 |
| C (mm)                | -   | -   | -   | -   |
| D (mm)                | -   | -   | -   | -   |
| Fire Barrier          | No  | No  | No  | No  |
| Fire Barrier Position | -   | -   | -   | -   |

#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 3,6   | 3,9   | 8,2   | 15    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



KSA100 to 400 DLC 401

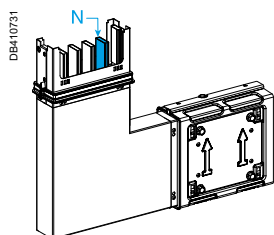


KSA500 to 1000 DLC 401

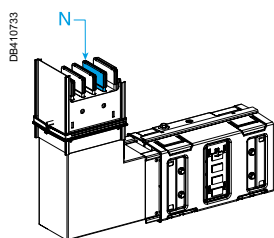
## Classic offer

## Change direction elements

## Elbows



KSA100 to 400 DLE 401



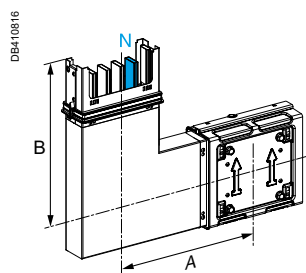
KSA500 to 1000 DLE 401

To go Upward at 90° (Edgewise position)  
Fixed dimensions

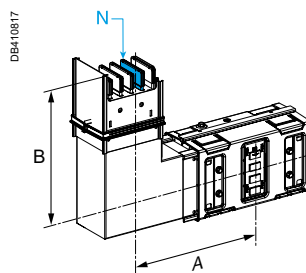
| Cat. n°            | KSA250DLE401  | KSA400DLE401 | KSA630DLE401   | KSA1000DLE401  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500           | 500          | 580            | 580            |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |     |     |     |     |
|-----------------------|-----|-----|-----|-----|
| A (mm)                | 250 | 250 | 290 | 290 |
| B (mm)                | 250 | 250 | 290 | 290 |
| C (mm)                | -   | -   | -   | -   |
| D (mm)                | -   | -   | -   | -   |
| Fire Barrier          | No  | No  | No  | No  |
| Fire Barrier Position | -   | -   | -   | -   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 2,6   | 5,8   | 10,5  | 13,5  |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |



KSA100 to 400 DLE 401

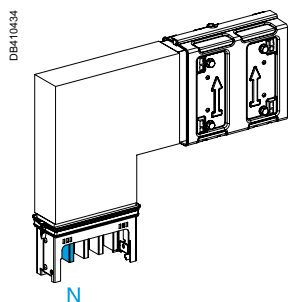


KSA500 to 1000 DLE 401

# Classic offer

## Change direction elements

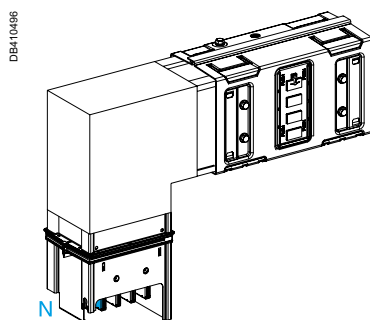
### Elbows



KSA100 to 400 DLF 401

**To go Downward at 90° (Edgewise position)**  
**Fixed dimensions**

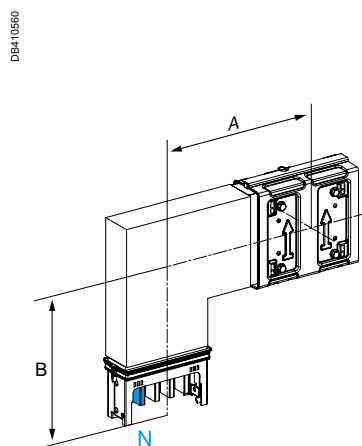
| Cat. n°            | KSA250DLF401  | KSA400DLF401 | KSA630DLF401   | KSA1000DLF401  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500           | 500          | 580            | 580            |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |



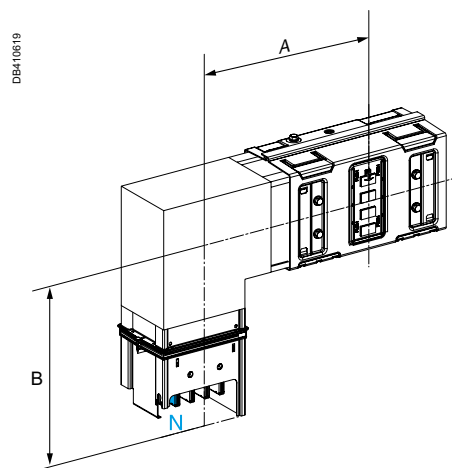
KSA500 to 1000 DLF 401

| Dimensions            |     |     |     |     |
|-----------------------|-----|-----|-----|-----|
| A (mm)                | 250 | 250 | 290 | 290 |
| B (mm)                | 250 | 250 | 290 | 290 |
| C (mm)                | -   | -   | -   | -   |
| D (mm)                | -   | -   | -   | -   |
| Fire Barrier          | No  | No  | No  | No  |
| Fire Barrier Position | -   | -   | -   | -   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 2,6   | 2,9   | 12    | 13    |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |



KSA100 to 400 DLF 401

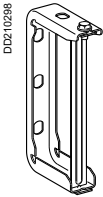


KSA500 to 1000 DLF 401

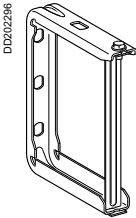
# Classic offer

## Fixing brackets and supports

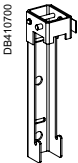
### For horizontal installation



KSB400ZF1



KSB1000ZF1



KSA80EZ5

#### Fixing brackets Universal and Rear fixing brackets

| Cat. n°         | KSB400ZF1     | KSB1000ZF1     | KSA80EZ5       |
|-----------------|---------------|----------------|----------------|
| Compatible with | KSA100 to 400 | KSA500 to 1000 | KSA100 to 1000 |

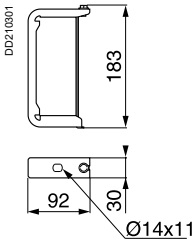
|            |     |      |      |
|------------|-----|------|------|
| Rating (A) | 400 | 1000 | 1000 |
| Polarity   | -   | -    | -    |

#### Characteristics

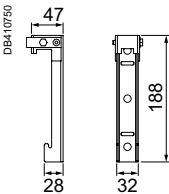
| Additional Characteristics |            |            |            |
|----------------------------|------------|------------|------------|
| IP                         | -          | -          | -          |
| Color                      | Galvanised | Galvanised | Galvanised |
| Weight (kg)                | 0,22       | 0,42       | 0,27       |
| Selling Unit               | 1          | 1          | 1          |
| MOQ                        | 10         | 10         | 10         |

Maximum recommended distance between fixings is 3 meters

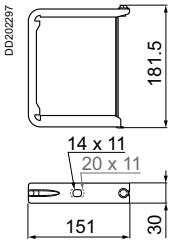
Max load 70kg      Max load 70kg      Max load 50kg



KSB400ZF1



KSA80EZ5

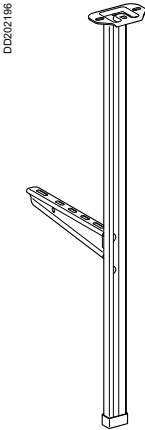


KSB1000ZF1

# Classic offer

## Fixing brackets and supports

### For horizontal installation



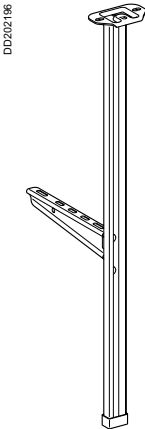
**Supports**  
**Pendant kits and Cantilever Arms**

| Cat. n°         | KSB400ZFKP1   | KSB1000ZFKP1   | KFBCA81200     | KFBCA81300     |
|-----------------|---------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 400 | KSA500 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

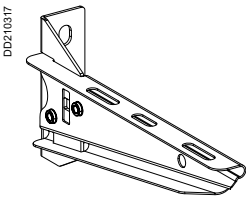
|            |     |      |      |      |
|------------|-----|------|------|------|
| Rating (A) | 400 | 1000 | 1000 | 1000 |
| Polarity   | -   | -    | -    | -    |

**Characteristics**

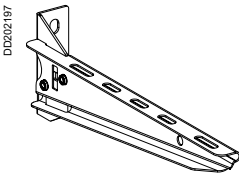
**KSB400ZFKP1**



**KSB1000ZFKP1**



**KFBCA81200**

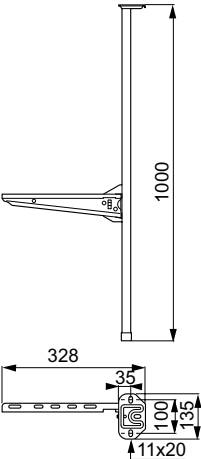


**KFBCA81300**

|   |   |                                 |                                 |
|---|---|---------------------------------|---------------------------------|
| - | - | Max. permissible weight: 220 kg | Max. permissible weight: 220 kg |
|---|---|---------------------------------|---------------------------------|

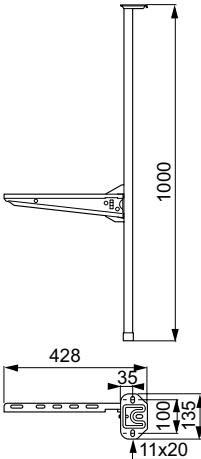
| Additional Characteristics |            |            |            |            |
|----------------------------|------------|------------|------------|------------|
| IP                         | -          | -          | -          | -          |
| Color                      | Galvanised | Galvanised | Galvanised | Galvanised |
| Weight (kg)                | 0,82       | 2,6        | 0,45       | 2,4        |
| Selling Unit               | 1          | 1          | 1          | 1          |
| MOQ                        | 4          | 4          | 4          | 4          |

DB403871



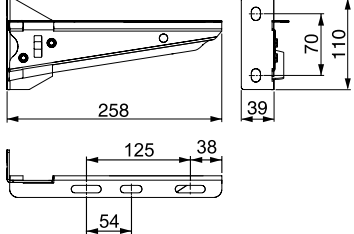
**KSB400ZFKP1**

DD202196



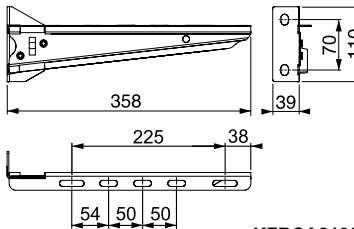
**KSB1000ZFKP1**

DD202193



**KFBCA81200**

DD202199

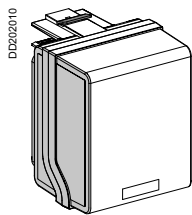


**KFBCA81300**

## Classic offer

## Connectors and Tap-off units

## Disconnection by unplugging the connector



KSB CF CN CG 5

**Delivered equipped with a fuse holder**  
For BS/NF/NZ fuses <sup>(1)</sup>

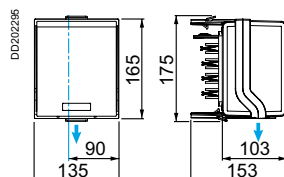
| Cat. n°         | KSB16CN5       | KSB20CG5       | KSB32CF5       |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

| Rating (A)    | 16          | 20          | 32          |
|---------------|-------------|-------------|-------------|
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |

| Cabling                                        |                                  |                                  |                                                              |
|------------------------------------------------|----------------------------------|----------------------------------|--------------------------------------------------------------|
| Protection Type (Not Supplied)                 | Fuses NZ - E14                   | Fuses BS88 - A1                  | Fuses NF 10 x 38 aM 32A max.<br>Fuses NF 10 x 38 gG 25A max. |
| Body Material                                  | Plastic                          | Plastic                          | Plastic                                                      |
| Cable Output                                   | Cable gland <sup>(2)</sup>       | Cable gland <sup>(2)</sup>       | Cable gland <sup>(2)</sup>                                   |
| Available Area (mm)                            | 1 x ISO 32 max. Multipolar cable | 1 x ISO 32 max. Multipolar cable | 1 x ISO 32 max. Multipolar cable                             |
| Connection                                     | Terminals on the fuse holder     | Brass clamps                     | Brass clamps                                                 |
| Maximum Rigid Cable Size (mm <sup>2</sup> )    | 6                                | 6                                | 6                                                            |
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 10                               | 10                               | 10                                                           |
|                                                | <sup>(2)</sup> Not included      | <sup>(2)</sup> Not included      | <sup>(2)</sup> Not included                                  |

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 0,85  | 0,85  | 0,85  |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |

<sup>(1)</sup> Not included



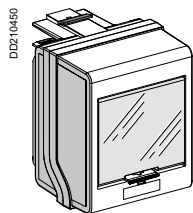
KSB CF CN CG 5



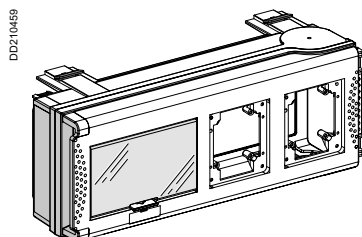
# Classic offer

## Connectors and Tap-off units

### Disconnection by unplugging the connector



KSB32CM55



KSB32CP

#### Delivered equipped with a DIN rail

For 18 mm modular devices <sup>(1)</sup>, CM: without Power sockets. CP: for Pratika Power sockets

| Cat. n°         | KSB32CM55      | KSB32CP        |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 |

|               |             |             |
|---------------|-------------|-------------|
| Rating (A)    | 32          | 32          |
| Polarity      | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |

| Cabling                        |                 |                 |
|--------------------------------|-----------------|-----------------|
| Protection Type (Not Supplied) | 5 modules 18 mm | 8 modules 18 mm |

|               |                            |                             |
|---------------|----------------------------|-----------------------------|
| Body Material | Plastic                    | Plastic                     |
| Cable Output  | Cable gland <sup>(2)</sup> | For 2 Pratika Power sockets |

|                     |                                  |   |
|---------------------|----------------------------------|---|
| Available Area (mm) | 1 x ISO 32 max. Multipolar cable | - |
|---------------------|----------------------------------|---|

|            |                 |                       |
|------------|-----------------|-----------------------|
| Connection | Acti9 Terminals | Patrika Power sockets |
|------------|-----------------|-----------------------|

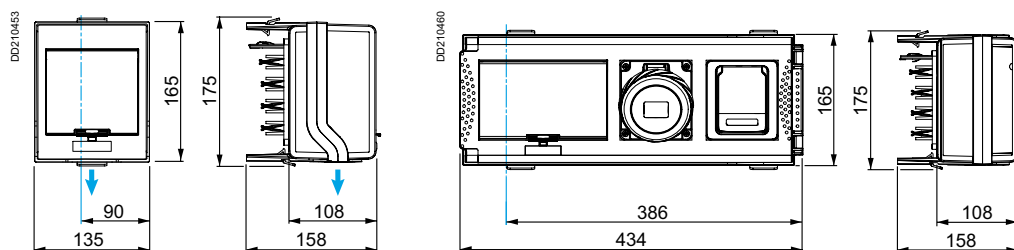
|                                                |                   |                                |
|------------------------------------------------|-------------------|--------------------------------|
| Maximum Rigid Cable Size (mm <sup>2</sup> )    | See Acti9 catalog | See Acti9 and Pratika catalogs |
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | See Acti9 catalog | See Acti9 and Pratika catalogs |

|  |                              |                              |
|--|------------------------------|------------------------------|
|  | Supplied with blanking plate | Supplied with blanking plate |
|--|------------------------------|------------------------------|

<sup>(2)</sup> Not included

| Additional Characteristics |       |       |
|----------------------------|-------|-------|
| IP                         | IP55  | IP55  |
| Color                      | White | White |
| Weight (kg)                | 0,65  | 1,45  |
| Selling Unit               | 1     | 1     |
| MOQ                        | 1     | 1     |

<sup>(1)</sup> Not included



KSB32CM55

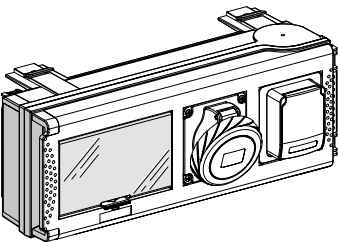
KSB32CP

Classic offer

Connectors and Tap-off units

Disconnection by unplugging the connector

DD210456



KSB32CP...

Delivered equipped with a DIN rail  
For 18 mm modular devices <sup>(1)</sup>. With Household NF and Industrial sockets

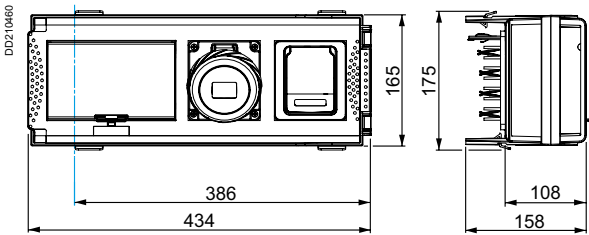
| Cat. n°         | KSB32CP11F     | KSB32CP15F     |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 |

|               |             |             |
|---------------|-------------|-------------|
| Rating (A)    | 32          | 32          |
| Polarity      | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |

|                                      |                                   |                                                    |
|--------------------------------------|-----------------------------------|----------------------------------------------------|
| <b>Cabling</b>                       |                                   |                                                    |
| Protection Type<br>(Not Supplied)    | 8 modules 18 mm                   | 8 modules 18 mm                                    |
| Body Material                        | Plastic                           | Plastic                                            |
| Cable Output                         | 2 sockets NF 10/16A               | 1 socket NF 10/16A<br>+ 1 Industrial socket<br>16A |
| Available<br>Area (mm)               | -                                 | -                                                  |
| Connection                           | Patrika Power<br>sockets          | Patrika Power<br>sockets                           |
| Maximum Rigid<br>Cable Size (mm²)    | See Acti9 and<br>Pratika catalogs | See Acti9 and<br>Pratika catalogs                  |
| Maximum Flexible<br>Cable Size (mm²) | See Acti9 and<br>Pratika catalogs | See Acti9 and<br>Pratika catalogs                  |
|                                      | Supplied with<br>blanking plate   | Supplied with<br>blanking plate                    |

|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Additional Characteristics</b> |       |       |
| IP                                | IP55  | IP55  |
| Color                             | White | White |
| Weight (kg)                       | 1,9   | 1,9   |
| Selling Unit                      | 1     | 1     |
| MOQ                               | 1     | 1     |

<sup>(1)</sup> Not included



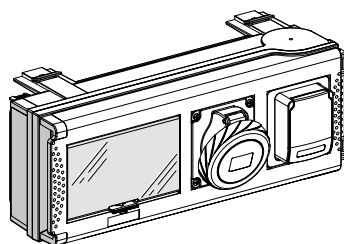
KSB32CP...

# Classic offer

## Connectors and Tap-off units

### Disconnection by unplugging the connector

DD210456



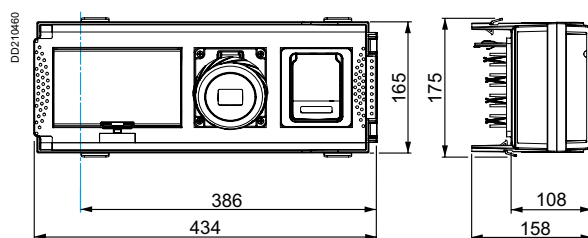
KSB32CP...

**Delivered equipped with a DIN rail**  
For 18 mm modular devices <sup>(1)</sup>. With Household Schuko and Industrial sockets

| Cat. n°                           | KSB32CP11D                     | KSB32CP15D                                              | KSB32CP35                      |
|-----------------------------------|--------------------------------|---------------------------------------------------------|--------------------------------|
| Compatible with                   | KSA100 to 1000                 | KSA100 to 1000                                          | KSA100 to 1000                 |
| Rating (A)                        | 32                             | 32                                                      | 32                             |
| Polarity                          | 3L + N + PE                    | 3L + N + PE                                             | 3L + N + PE                    |
| Phase Diagram                     |                                |                                                         |                                |
| <b>Cabling</b>                    |                                |                                                         |                                |
| Protection Type (Not Supplied)    | 8 modules 18 mm                | 8 modules 18 mm                                         | 8 modules 18 mm                |
| Body Material                     | Plastic                        | Plastic                                                 | Plastic                        |
| Cable Output                      | 2 sockets Schuko 10/16 A       | 1 socket Schuko 10/16 A + 1 Industrial 16 A socket 16 A | 2 industrial sockets           |
| Available Area (mm)               | -                              | -                                                       | -                              |
| Connection                        | Patrika Power sockets          | Patrika Power sockets                                   | Patrika Power sockets          |
| Maximum Rigid Cable Size (mm²)    | See Acti9 and Pratika catalogs | See Acti9 and Pratika catalogs                          | See Acti9 and Pratika catalogs |
| Maximum Flexible Cable Size (mm²) | See Acti9 and Pratika catalogs | See Acti9 and Pratika catalogs                          | See Acti9 and Pratika catalogs |
|                                   | Supplied with blanking plate   | Supplied with blanking plate                            | Supplied with blanking plate   |

| <b>Additional Characteristics</b> |       |       |       |
|-----------------------------------|-------|-------|-------|
| IP                                | IP55  | IP55  | IP55  |
| Color                             | White | White | White |
| Weight (kg)                       | 1,9   | 1,9   | 1,9   |
| Selling Unit                      | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 1     |

<sup>(1)</sup> Not included



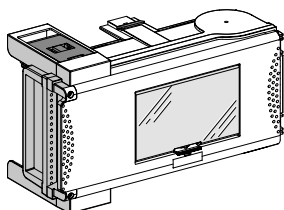
KSB32CP...

## Classic offer

## Connectors and Tap-off units

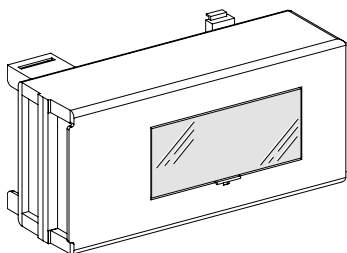
## Disconnection by opening the door

DD210454



KSB63 SM •

DB410717



KSB100 SM •

**Delivered equipped with a DIN rail**  
For 18 mm modular devices <sup>(1)</sup>

| Cat. n°         | KSB63SM48      | KSB63SM58      | KSB100SM412    | KSB100SM512    |
|-----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

|               |             |          |             |          |
|---------------|-------------|----------|-------------|----------|
| Rating (A)    | 63          | 63       | 100         | 100      |
| Polarity      | 3L + N + PE | 3L + PEN | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |             |          |

|                                |                 |                 |                  |                  |
|--------------------------------|-----------------|-----------------|------------------|------------------|
| <b>Cabling</b>                 |                 |                 |                  |                  |
| Protection Type (Not Supplied) | 8 modules 18 mm | 8 modules 18 mm | 12 modules 18 mm | 12 modules 18 mm |

|               |                            |                            |                            |                            |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Body Material | Plastic                    | Plastic                    | Plastic                    | Plastic                    |
| Cable Output  | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> |

|                     |                                 |                                 |                                 |                                 |
|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Available Area (mm) | 2 x ISO 50 for multipolar cable | 2 x ISO 50 for multipolar cable | 2 x ISO 63 for multipolar cable | 2 x ISO 63 for multipolar cable |
|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|

|            |                                                                 |                                                                 |                                                                 |                                                                 |
|------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Connection | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs |
|------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|

|                                             |    |    |    |    |
|---------------------------------------------|----|----|----|----|
| Maximum Rigid Cable Size (mm <sup>2</sup> ) | 16 | 16 | 35 | 35 |
|---------------------------------------------|----|----|----|----|

|                                                |    |    |    |    |
|------------------------------------------------|----|----|----|----|
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 16 | 16 | 35 | 35 |
|------------------------------------------------|----|----|----|----|

|  |                              |                              |                              |                              |
|--|------------------------------|------------------------------|------------------------------|------------------------------|
|  | Supplied with blanking plate | Supplied with blanking plate | Supplied with blanking plate | Supplied with blanking plate |
|--|------------------------------|------------------------------|------------------------------|------------------------------|

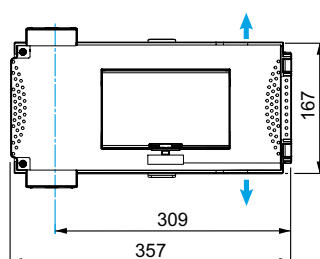
|  |                             |                             |                             |                             |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|  | <sup>(2)</sup> Not included | <sup>(2)</sup> Not included | <sup>(2)</sup> Not included | <sup>(2)</sup> Not included |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| <b>Additional Characteristics</b> |       |       |       |       |
| IP                                | IP55  | IP55  | IP55  | IP55  |
| Color                             | White | White | White | White |
| Weight (kg)                       | 1,8   | 2     | 2,8   | 2,5   |
| Selling Unit                      | 1     | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 1     | 1     |

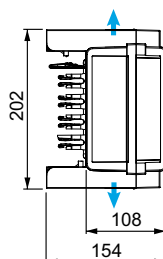
Tap-off units not compatible with Circuit breaker NG125. See KSB160SM•13

<sup>(1)</sup> Not included

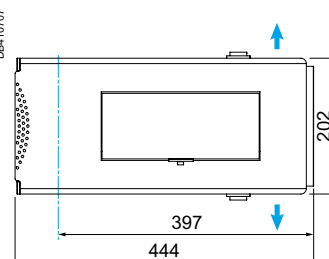
DB410706



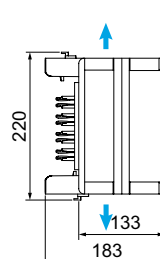
KSB63 SM •



DB410707



KSB100 SM •

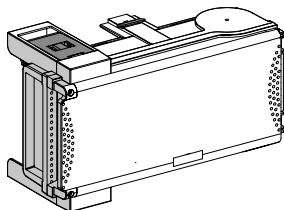


# Classic offer

## Connectors and Tap-off units

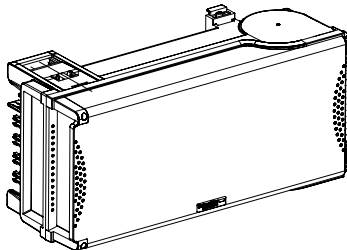
### Disconnection by opening the door

DD210466



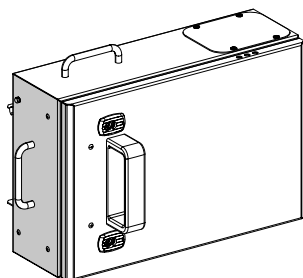
KSB32 SG •

DD421089



KSB80 SG •

DD202013



KSB160 SG •

**Delivered equipped with a fuse holder**  
For BS fuses <sup>(1)</sup>

| Cat. n°         | KSB32SG4       | KSB80SG4       | KSB160SG4      |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

|               |             |             |             |
|---------------|-------------|-------------|-------------|
| Rating (A)    | 32          | 80          | 160         |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |

| Cabling                        | Fuses BS88 - A1 | Fuses BS88 - A1 or A3 | Fuses BS88 - B1 or B2 |
|--------------------------------|-----------------|-----------------------|-----------------------|
| Protection Type (Not Supplied) |                 |                       |                       |

|               |                            |                            |                                               |
|---------------|----------------------------|----------------------------|-----------------------------------------------|
| Body Material | Plastic                    | Plastic                    | Metal                                         |
| Cable Output  | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | 2 lateral 1.5 mm steel cable plates 245 x 115 |

|                     |                                 |                                          |                 |
|---------------------|---------------------------------|------------------------------------------|-----------------|
| Available Area (mm) | 2 x ISO 50 for multipolar cable | Max ISO63 Multipolar- Max ISO20 Unipolar | 2 x (215 x 185) |
|---------------------|---------------------------------|------------------------------------------|-----------------|

|            |                                           |                                                   |                              |
|------------|-------------------------------------------|---------------------------------------------------|------------------------------|
| Connection | Tin-plated copper clamps for copper wires | Copper terminals (M6) for Copper compression lugs | Terminals on the fuse holder |
|------------|-------------------------------------------|---------------------------------------------------|------------------------------|

|                                                |    |    |    |
|------------------------------------------------|----|----|----|
| Maximum Rigid Cable Size (mm <sup>2</sup> )    | 25 | 50 | 50 |
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 25 | 50 | 50 |

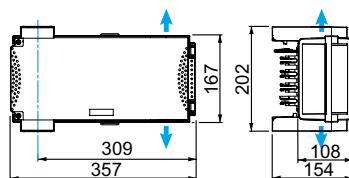
<sup>(2)</sup> Not included<sup>(2)</sup> Not included

-

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 1,4   | 3,4   | 11    |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |

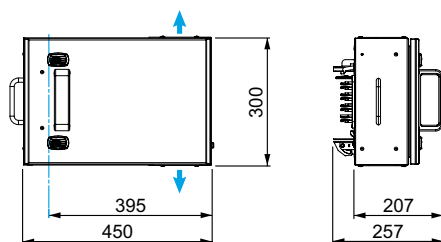
<sup>(1)</sup> Not included

DB410705



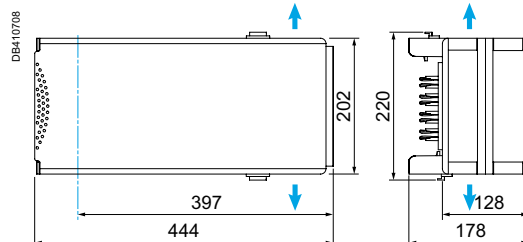
KSB32SG4

DB410709



KSB160SG4

DB410708

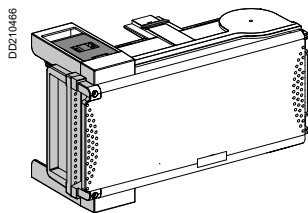


KSB80SG4

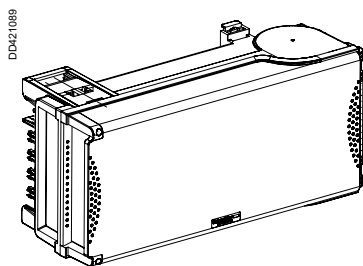
## Classic offer

## Connectors and Tap-off units

## Disconnection by opening the door



KSB50 SF •



KSB100 SF •

Delivered equipped with a fuse holder  
For NF fuses (Cylindrical) <sup>(1)</sup>

| Cat. n°         | KSB50SF4       | KSB50SF5       | KSB100SF4      | KSB100SF5      |
|-----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

|               |             |          |             |          |
|---------------|-------------|----------|-------------|----------|
| Rating (A)    | 50          | 50       | 100         | 100      |
| Polarity      | 3L + N + PE | 3L + PEN | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |             |          |

|                                |                           |                           |                           |                           |
|--------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <b>Cabling</b>                 |                           |                           |                           |                           |
| Protection Type (Not Supplied) | Fuses NF 14x51 - gG or aM | Fuses NF 14x51 - gG or aM | Fuses NF 22x58 - gG or aM | Fuses NF 22x58 - gG or aM |

|               |                            |                            |                            |                            |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Body Material | Plastic                    | Plastic                    | Plastic                    | Plastic                    |
| Cable Output  | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> |

|                     |                                 |                                 |                                 |                                 |
|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Available Area (mm) | 2 x ISO 50 for multipolar cable | 2 x ISO 50 for multipolar cable | 2 x ISO 63 for multipolar cable | 2 x ISO 63 for multipolar cable |
|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|

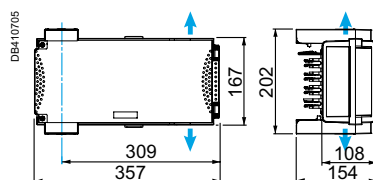
|            |                                              |                                              |                                                                 |                                                                 |
|------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Connection | Silver-plated copper clamps for copper wires | Silver-plated copper clamps for copper wires | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs |
|------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|

|                                                |    |    |    |    |
|------------------------------------------------|----|----|----|----|
| Maximum Rigid Cable Size (mm <sup>2</sup> )    | 25 | 25 | 50 | 50 |
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 25 | 25 | 50 | 50 |

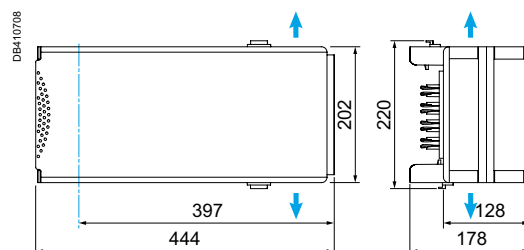
<sup>(2)</sup> Not included      <sup>(2)</sup> Not included      <sup>(2)</sup> Not included      <sup>(2)</sup> Not included

|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| <b>Additional Characteristics</b> |       |       |       |       |
| IP                                | IP55  | IP55  | IP55  | IP55  |
| Color                             | White | White | White | White |
| Weight (kg)                       | 1,4   | 1,4   | 3,5   | 3,5   |
| Selling Unit                      | 1     | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 1     | 1     |

<sup>(1)</sup> Not included



KSB50 SF •



KSB100 SF •



# Classic offer

## Power sockets for CP tap-off units

### Pratika power sockets



PKY16F723

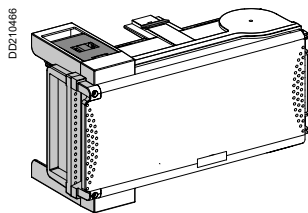
| Designation                   | Rated current (A)                          | Rated voltage (V AC) | Number of poles | Dimensions (W x H in mm) | Cat. no.         | Weight (kg) |
|-------------------------------|--------------------------------------------|----------------------|-----------------|--------------------------|------------------|-------------|
| Industrial sockets<br>Pratika | 16                                         | 200-250              | 2P + T          | 65 x 85                  | <b>PKY16F723</b> | -           |
|                               |                                            |                      | 3P + N + T      | 90 x 100                 | <b>PKY16F725</b> | -           |
|                               |                                            | 380-415              | 2P + T          | 65 x 85                  | <b>PKY16F733</b> | -           |
|                               |                                            |                      | 3P + N + T      | 90 x 100                 | <b>PKY16F735</b> | -           |
|                               | 32 <sup>(1)</sup>                          | 200-250              | 2P + T          | 90 x 100                 | <b>PKY32F723</b> | -           |
|                               |                                            |                      | 3P + N + T      | 90 x 100                 | <b>PKY32F725</b> | -           |
|                               |                                            | 380-415              | 2P + T          | 90 x 100                 | <b>PKY32F733</b> | -           |
|                               |                                            |                      | 3P + N + T      | 90 x 100                 | <b>PKY32F735</b> | -           |
| Household NF sockets          | 10 to 16                                   | 250                  | 2P + T          | 65 x 85                  | <b>81140</b>     | -           |
| Household Schuko sockets      | 10 to 16                                   | 250                  | 2P + T          | 65 x 85                  | <b>81141</b>     | -           |
| Screw-on plate                | For blanking of unused openings            |                      |                 |                          | <b>13137</b>     | 0.10        |
|                               | For adapting 65 x 85 mm power-socket bases |                      |                 |                          | <b>13136</b>     | 0.09        |

<sup>(1)</sup> The sum of currents in the 2 sockets installed on the tap-off unit  $\leq 32$  A.

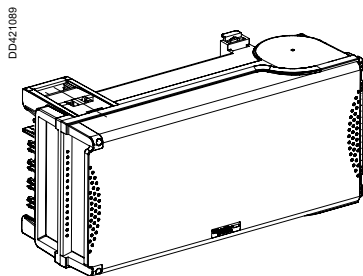
## Classic offer

## Connectors and Tap-off units

## Disconnection by opening the door



KSB25 SD SN •



KSB63 SD •

**Delivered equipped with a fuse holder**  
For NZ/DZ fuses <sup>(1)</sup>

| Cat. n°         | KSB25SD4       | KSB50SN4       | KSB63SD4       |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

| Rating (A)    | 25          | 50          | 63          |
|---------------|-------------|-------------|-------------|
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |

| Cabling         |                |                |                |
|-----------------|----------------|----------------|----------------|
| Protection Type | Fuses DZ - E27 | Fuses NZ - E18 | Fuses DZ - E33 |
| (Not Supplied)  |                |                |                |

| Body Material | Plastic                    | Plastic                    | Plastic                    |
|---------------|----------------------------|----------------------------|----------------------------|
| Cable Output  | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> |

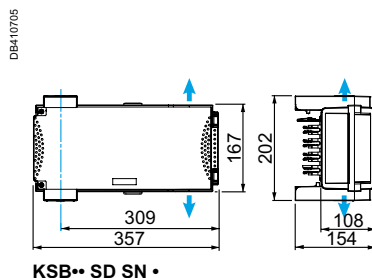
| Available Area (mm) | 2 x ISO 50 for multipolar cable | 2 x ISO 50 for multipolar cable | 2 x ISO 63 for multipolar cable |
|---------------------|---------------------------------|---------------------------------|---------------------------------|
| Connection          | Terminals on the fuse holder    | Terminals on the fuse holder    | Terminals on the fuse holder    |

| Maximum Rigid Cable Size (mm <sup>2</sup> )    | 25 | 25 | 25 |
|------------------------------------------------|----|----|----|
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 25 | 25 | 25 |

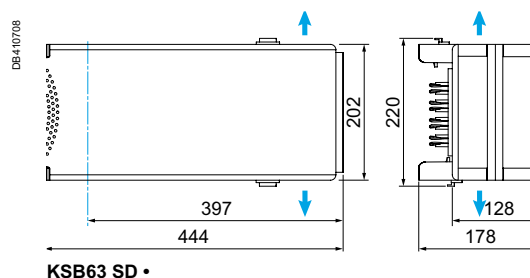
<sup>(2)</sup> Not included      <sup>(2)</sup> Not included      <sup>(2)</sup> Not included

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 1,4   | 1,4   | 2,6   |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |

<sup>(1)</sup> Not included



KSB25 SD SN •



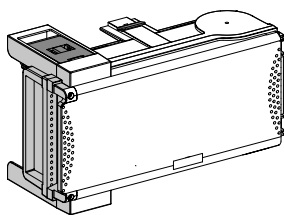
KSB63 SD •

# Classic offer

## Connectors and Tap-off units

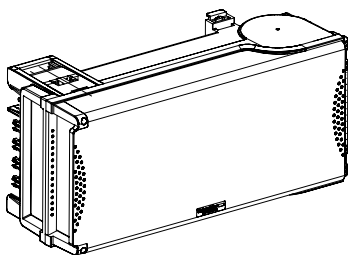
### Disconnection by opening the door

DD210466



KSB25 SD SN •

DD421089



KSB63 SD •

**Delivered equipped with a fuse holder**  
For NZ/DZ fuses <sup>(1)</sup>

| Cat. n°         | KSB25SD5       | KSB50SN5       | KSB63SD5       |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

| Rating (A)    | 25       | 50       | 63       |
|---------------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

| Cabling                        |                |                |                |
|--------------------------------|----------------|----------------|----------------|
| Protection Type (Not Supplied) | Fuses DZ - E27 | Fuses NZ - E18 | Fuses DZ - E33 |

| Body Material | Plastic                    | Plastic                    | Plastic                    |
|---------------|----------------------------|----------------------------|----------------------------|
| Cable Output  | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> | Cable gland <sup>(2)</sup> |

| Available Area (mm) | 2 x ISO 50 for multipolar cable | 2 x ISO 50 for multipolar cable | 2 x ISO 63 for multipolar cable |
|---------------------|---------------------------------|---------------------------------|---------------------------------|
| Connection          | Terminals on the fuse holder    | Terminals on the fuse holder    | Terminals on the fuse holder    |

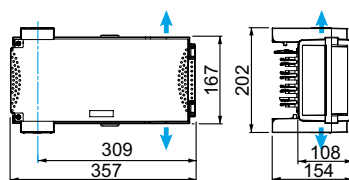
| Maximum Rigid Cable Size (mm²)    | 25 | 25 | 25 |
|-----------------------------------|----|----|----|
| Maximum Flexible Cable Size (mm²) | 25 | 25 | 25 |

<sup>(2)</sup> Not included      <sup>(2)</sup> Not included      <sup>(2)</sup> Not included

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 1,4   | 1,4   | 2,6   |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |

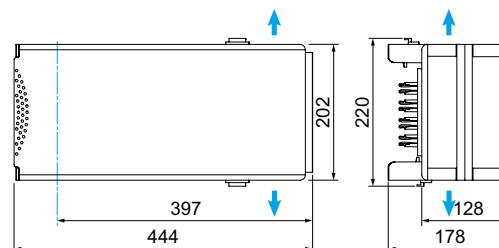
<sup>(1)</sup> Not included

DB410705



KSB25 SD SN •

DB410708



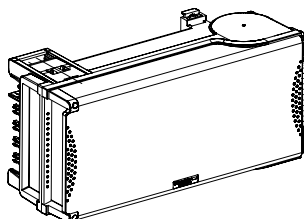
KSB63 SD •

## Classic offer

## Connectors and Tap-off units

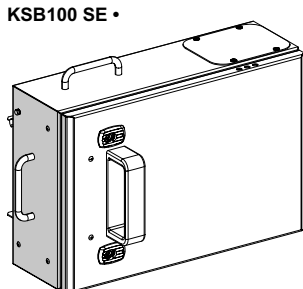
## Disconnection by opening the door

DD421089



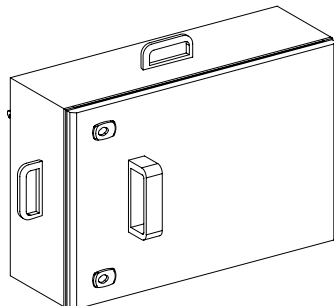
Delivered equipped with a fuse holder  
For Blade-type fuses <sup>(1)</sup>

DD202013



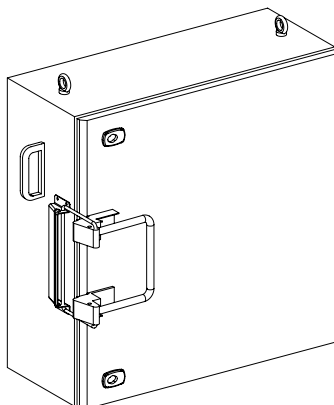
KSB100 SE •

DB410718



KSB160 SE • and SF •

DB410755



KSB250 SE •

| Cat. n°         | KSB100SE4      | KSB160SE4      | KSB160SF4      | KSB250SE4      | KSB400SE4      |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 100         | 160         | 160         | 250         | 400         |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram | DD41768<br> | DD41768<br> | DD41768<br> | DD41768<br> | DD41768<br> |

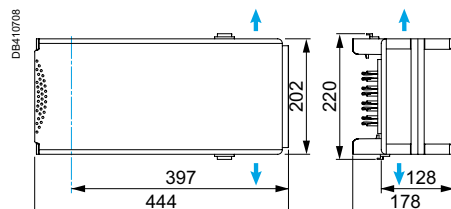
## Cabling

| Protection Type<br>(Not Supplied)    | Fuses Size 00 - gG<br>or aM        | Fuses Size 00 - gG<br>or aM                         | Fuses Size 0 - gG<br>or aM                          | Fuses Size 1 - gG<br>or aM                                  | Fuses Size 2 - gG<br>or aM                                       |
|--------------------------------------|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|
| Body Material                        | Plastic                            | Metal                                               | Metal                                               | Metal                                                       | Metal                                                            |
| Cable Output                         | Cable gland <sup>(2)</sup>         | 2 lateral 1.5 mm<br>steel cable plates<br>245 x 115 | 2 lateral 1.5 mm<br>steel cable plates<br>245 x 115 | 1 rear 1.5 mm steel<br>cable plate<br>345 x 130             | 1 bottom 1.5 mm<br>steel cable plate 545<br>x 130                |
| Available<br>Area (mm)               | 2 x ISO 63 for<br>multipolar cable | 2 x (215 x 185)                                     | 2 x (215 x 185)                                     | 315 x 100                                                   | 515 x 100                                                        |
| Connection                           | Terminals on the<br>fuse holder    | Terminals on the<br>fuse holder                     | Terminals on the<br>fuse holder                     | Copper plate with<br>x Ø13mm for Copper<br>compression lugs | Copper plate with<br>1 x Ø12mm for<br>Copper compression<br>lugs |
| Maximum Rigid<br>Cable Size (mm²)    | 35                                 | 70                                                  | 70                                                  | 150                                                         | 240                                                              |
| Maximum Flexible<br>Cable Size (mm²) | 50                                 | 70                                                  | 70                                                  | 150                                                         | 240                                                              |

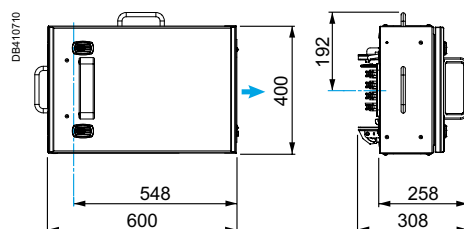
<sup>(2)</sup> Not included

## Additional Characteristics

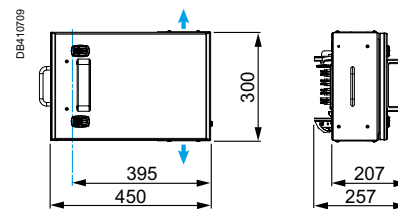
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
|--------------|-------|-------|-------|-------|-------|
| Color        | White | White | White | White | White |
| Weight (kg)  | 3,5   | 9     | 8     | 19,8  | 29    |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

<sup>(1)</sup> Not included

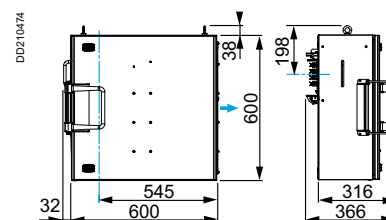
KSB100 SE •



KSB250 SE •



KSB160 SE • and KSB160 SF •



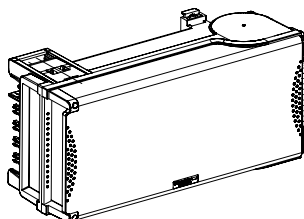
KSB400 SE •

# Classic offer

## Connectors and Tap-off units

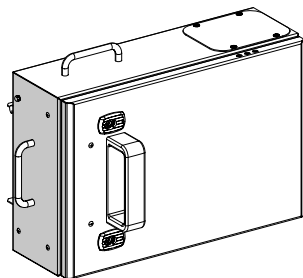
### Disconnection by opening the door

DD421089



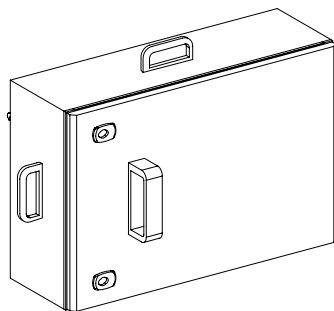
KSB100 SE •

DD202013



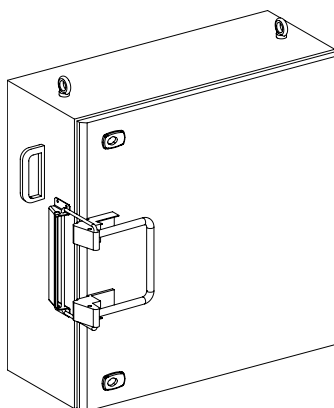
KSB160 SE • and SF •

DB410718



KSB250 SE •

DB410755



KSB400 SE •

Delivered equipped with a fuse holder  
For Blade-type fuses <sup>(1)</sup>

| Cat. n°         | KSB100SE5      | KSB160SE5      | KSB160SF5      | KSB250SE5      | KSB400SE5      |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 100      | 160      | 160      | 250      | 400      |
|---------------|----------|----------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |          |          |

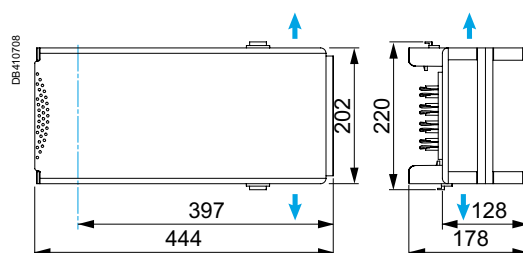
#### Cabling

| Protection Type<br>(Not Supplied)                 | Fuses Size 00 - gG<br>or aM        | Fuses Size 00 - gG<br>or aM                         | Fuses Size 0 - gG<br>or aM                          | Fuses Size 1 - gG<br>or aM                                  | Fuses Size 2 - gG<br>or aM                                       |
|---------------------------------------------------|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------|
| Body Material                                     | Plastic                            | Metal                                               | Metal                                               | Metal                                                       | Metal                                                            |
| Cable Output                                      | Cable gland <sup>(2)</sup>         | 2 lateral 1.5 mm<br>steel cable plates<br>245 x 115 | 2 lateral 1.5 mm<br>steel cable plates<br>245 x 115 | 1 rear 1.5 mm steel<br>cable plate<br>345 x 130             | 1 bottom 1.5 mm<br>steel cable plate 545<br>x 130                |
| Available<br>Area (mm)                            | 2 x ISO 63 for<br>multipolar cable | 2 x (215 x 185)                                     | 2 x (215 x 185)                                     | 315 x 100                                                   | 515 x 100                                                        |
| Connection                                        | Terminals on the<br>fuse holder    | Terminals on the<br>fuse holder                     | Terminals on the<br>fuse holder                     | Copper plate with<br>x Ø13mm for Copper<br>compression lugs | Copper plate with<br>1 x Ø12mm for<br>Copper compression<br>lugs |
| Maximum Rigid<br>Cable Size (mm <sup>2</sup> )    | 35                                 | 70                                                  | 70                                                  | 150                                                         | 240                                                              |
| Maximum Flexible<br>Cable Size (mm <sup>2</sup> ) | 50                                 | 70                                                  | 70                                                  | 150                                                         | 240                                                              |

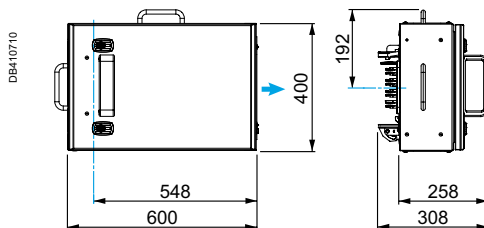
<sup>(2)</sup> Not included

#### Additional Characteristics

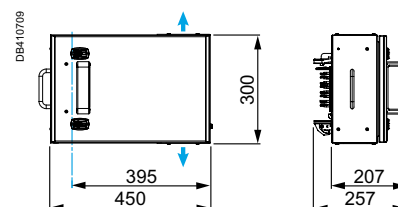
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
|--------------|-------|-------|-------|-------|-------|
| Color        | White | White | White | White | White |
| Weight (kg)  | 3,5   | 8,8   | 8,9   | 18    | 30    |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

<sup>(1)</sup> Not included

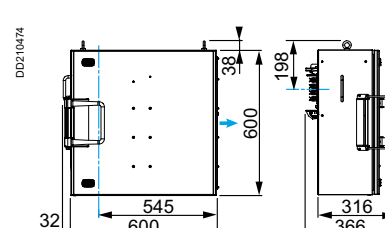
KSB100 SE •



KSB250 SE •



KSB160 SE • and SF •



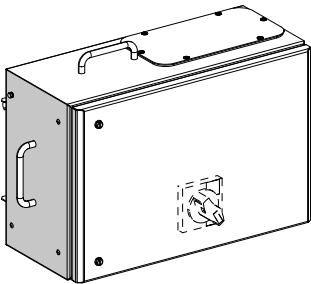
KSB400 SE •

Classic offer

Connectors and Tap-off units

Switching with an extended rotary handle located on the door

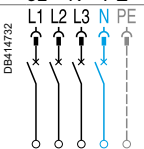
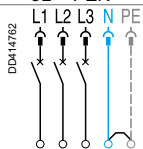
DD202154



KSB160 SM •

Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NG Circuit Breaker <sup>(1)</sup>

| Cat. n°         | KSB160SM413    | KSB160SM513    |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 |

|               |                                                                                   |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Rating (A)    | 160                                                                               | 160                                                                               |
| Polarity      | 3L + N + PE                                                                       | 3L + PEN                                                                          |
| Phase Diagram |  |  |

|                                   |                |                |
|-----------------------------------|----------------|----------------|
| <b>Cabling</b>                    |                |                |
| Protection Type<br>(Not Supplied) | NG125 or NG160 | NG125 or NG160 |

|                        |                                                     |                                                     |
|------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Body Material          | Metal                                               | Metal                                               |
| Cable Output           | 2 lateral 1.5 mm steel<br>cable plates<br>245 x 130 | 2 lateral 1.5 mm steel<br>cable plates<br>245 x 130 |
| Available<br>Area (mm) | 2 x (215 x 100)                                     | 2 x (215 x 100)                                     |
| Connection             | NG Terminals                                        | NG Terminals                                        |

|                                      |                |                |
|--------------------------------------|----------------|----------------|
| Maximum Rigid<br>Cable Size (mm²)    | See NG catalog | See NG catalog |
| Maximum Flexible<br>Cable Size (mm²) | See NG catalog | See NG catalog |

NG125: Extended  
rotary handle 19088

NG125: Extended  
rotary handle 19088

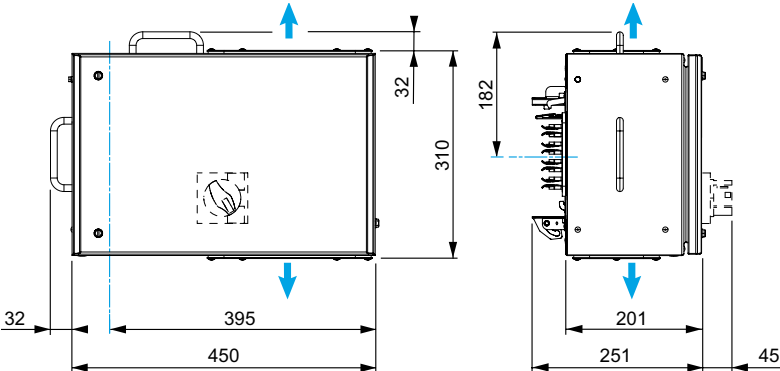
NG160: Extended  
rotary handle 28060

NG160: Extended  
rotary handle 28060

|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Additional Characteristics</b> |       |       |
| IP                                | IP55  | IP55  |
| Color                             | White | White |
| Weight (kg)                       | 9     | 9     |
| Selling Unit                      | 1     | 1     |
| MOQ                               | 1     | 1     |

<sup>(1)</sup> Not included

DD202155



KSB160 SM •

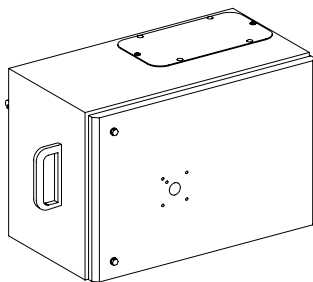


# Classic offer

## Connectors and Tap-off units

### Switching with an extended rotary handle located on the door

DB410869



KSB160 DM 4

**Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NSXm Circuit Breaker <sup>(1)</sup>**

| Cat. n°         | KSB160DM4      | KSB160DM5      |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 |

|               |             |          |
|---------------|-------------|----------|
| Rating (A)    | 160         | 160      |
| Polarity      | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |

|                                |                   |                   |
|--------------------------------|-------------------|-------------------|
| <b>Cabling</b>                 |                   |                   |
| Protection Type (Not Supplied) | NSXm160 - N, H, L | NSXm160 - N, H, L |

|                     |                                                      |                                                      |
|---------------------|------------------------------------------------------|------------------------------------------------------|
| Body Material       | Metal                                                | Metal                                                |
| Cable Output        | 2 lateral and 1 rear steel cable plates<br>245 x 130 | 2 lateral and 1 rear steel cable plates<br>245 x 130 |
| Available Area (mm) | 3 x (215 x 100)                                      | 3 x (215 x 100)                                      |
| Connection          | On NSXm Terminals                                    | On NSXm Terminals                                    |

|                                   |                  |                  |
|-----------------------------------|------------------|------------------|
| Maximum Rigid Cable Size (mm²)    | See NSXm catalog | See NSXm catalog |
| Maximum Flexible Cable Size (mm²) | See NSXm catalog | See NSXm catalog |

NSXm160: Extended rotary handle  
LV426933 (IP54)

NSXm160: Extended rotary handle  
LV426933 (IP54)

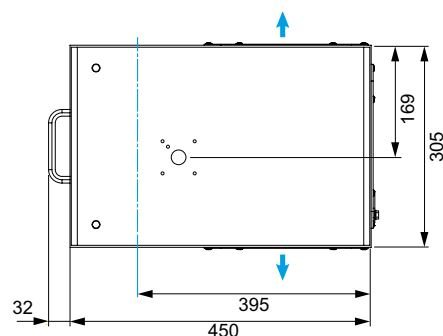
NSXm160: Extended rotary handle  
LV426934 (IP65)

NSXm160: Extended rotary handle  
LV426934 (IP65)

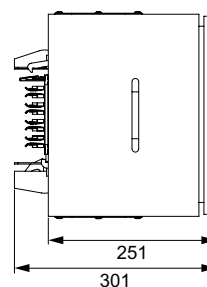
|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Additional Characteristics</b> |       |       |
| IP                                | IP55  | IP55  |
| Color                             | White | White |
| Weight (kg)                       | 9,5   | 9     |
| Selling Unit                      | 1     | 1     |
| MOQ                               | 1     | 1     |

<sup>(1)</sup> Not included

DB410870



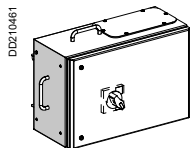
KSB160 DM 4



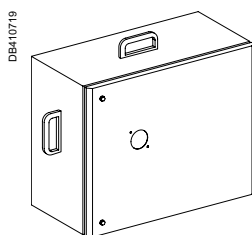
## Classic offer

## Connectors and Tap-off units

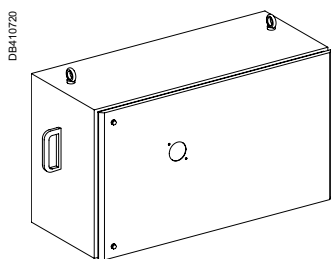
## Switching with an extended rotary handle located on the door



KSB160 DC 4



KSB250 DC 4



KSB400 DC 4

Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NSX Circuit Breaker 4P <sup>(1)</sup>

| Cat. n°         | KSB160DC4      | KSB250DC4      | KSB400DC4      |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 160         | 250         | 400         |
|---------------|-------------|-------------|-------------|
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |

| Cabling                        |                         |                  |                  |
|--------------------------------|-------------------------|------------------|------------------|
| Protection Type (Not Supplied) | NSX100/NSX160 - N, H, L | NSX250 - N, H, L | NSX400 - N, H, L |

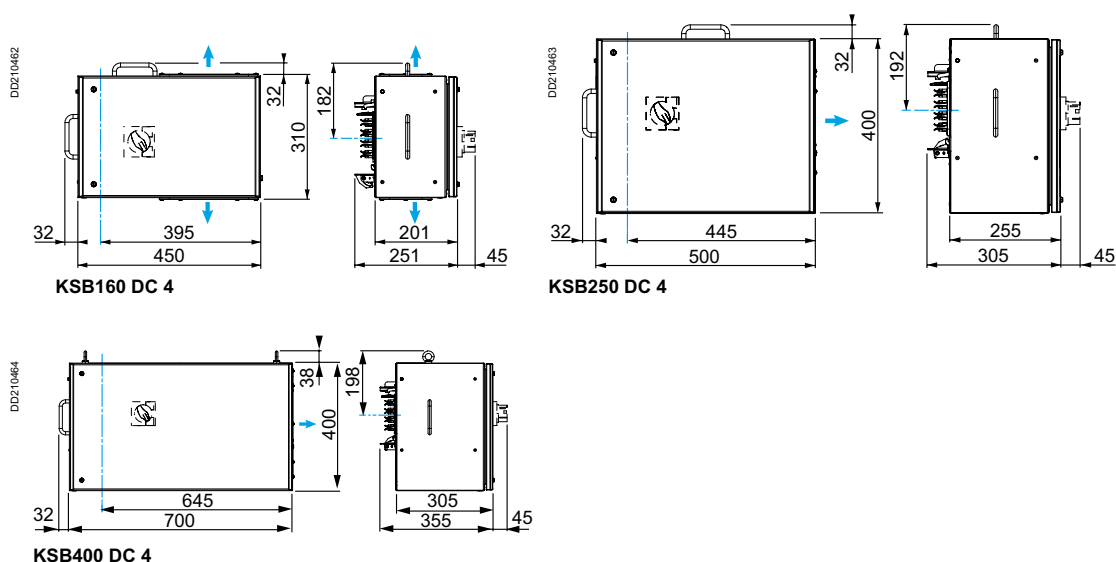
| Body Material       | Metal                                            | Metal                                            | Metal                                        |
|---------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|
| Cable Output        | 2 lateral 1.5 mm steel cable plates<br>245 x 130 | 2 lateral 1.5 mm steel cable plates<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 |
| Available Area (mm) | 2 x (215 x 100)                                  | 2 x (215 x 100)                                  | 315 x 100                                    |
| Connection          | On NSX Terminals                                 | On NSX Terminals                                 | On NSX Terminals                             |

| Maximum Rigid Cable Size (mm²)    | See NSX catalog | See NSX catalog | See NSX catalog |
|-----------------------------------|-----------------|-----------------|-----------------|
| Maximum Flexible Cable Size (mm²) | See NSX catalog | See NSX catalog | See NSX catalog |

|                                                |                                         |                                         |
|------------------------------------------------|-----------------------------------------|-----------------------------------------|
| NSX100/160:<br>Extended rotary handle LV429338 | NSX250: Extended rotary handle LV429338 | NSX400: Extended rotary handle LV432598 |
|------------------------------------------------|-----------------------------------------|-----------------------------------------|

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 9,5   | 12,5  | 19    |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |

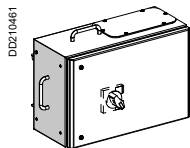
<sup>(1)</sup> Not included



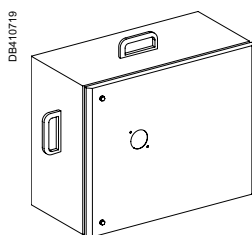
# Classic offer

## Connectors and Tap-off units

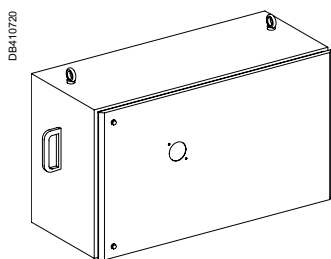
### Switching with an extended rotary handle located on the door



KSB160 DC 5



KSB250 DC 5



KSB400 DC 5

**Delivered equipped with a mounting plate for 1 Circuit Breaker**  
For NSX Circuit Breaker 3P <sup>(1)</sup>

| Cat. n°         | KSB160DC5      | KSB250DC5      | KSB400DC5      |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 160      | 250      | 400      |
|---------------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

#### Cabling

| Protection Type (Not Supplied) | NSX100/NSX160 - N, H, L | NSX250 - N, H, L | NSX400 - N, H, L |
|--------------------------------|-------------------------|------------------|------------------|
|--------------------------------|-------------------------|------------------|------------------|

| Body Material        | Metal                                            | Metal                                            | Metal                                        |
|----------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|
| Cable Output         | 2 lateral 1.5 mm steel cable plates<br>245 x 130 | 2 lateral 1.5 mm steel cable plates<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 |
| Available Area (mm²) | 2 x (215 x 100)                                  | 2 x (215 x 100)                                  | 315 x 100                                    |
| Connection           | On NSX Terminals                                 | On NSX Terminals                                 | On NSX Terminals                             |

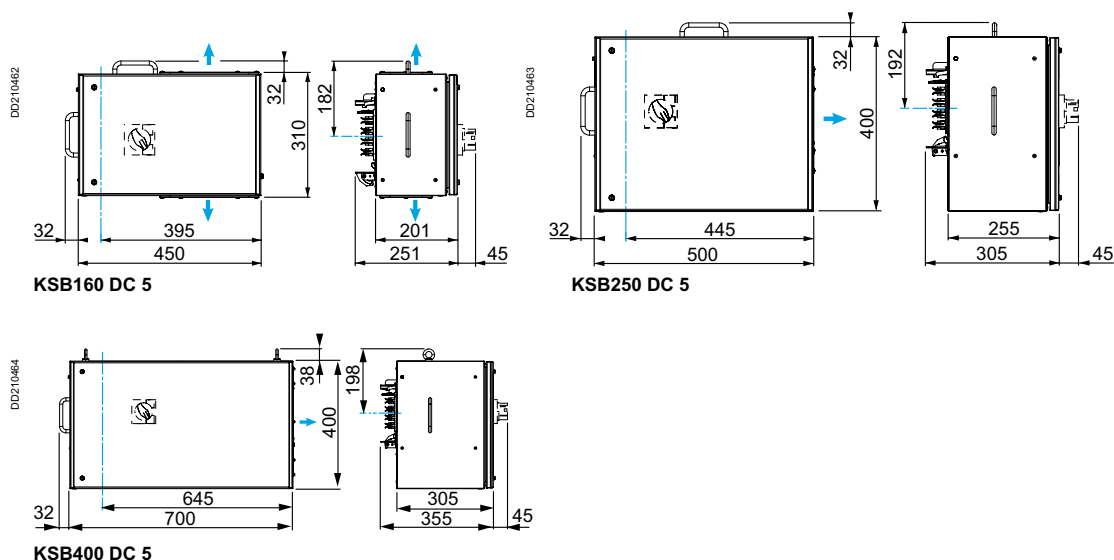
| Maximum Rigid Cable Size (mm²)    | See NSX catalog | See NSX catalog | See NSX catalog |
|-----------------------------------|-----------------|-----------------|-----------------|
| Maximum Flexible Cable Size (mm²) | See NSX catalog | See NSX catalog | See NSX catalog |

|                                                |                                         |                                         |
|------------------------------------------------|-----------------------------------------|-----------------------------------------|
| NSX100/160:<br>Extended rotary handle LV429338 | NSX250: Extended rotary handle LV429338 | NSX400: Extended rotary handle LV432598 |
|------------------------------------------------|-----------------------------------------|-----------------------------------------|

#### Additional Characteristics

| IP           | IP55  | IP55  | IP55  |
|--------------|-------|-------|-------|
| Color        | White | White | White |
| Weight (kg)  | 9     | 20    | 20    |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |

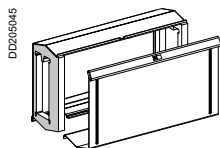
<sup>(1)</sup> Not included



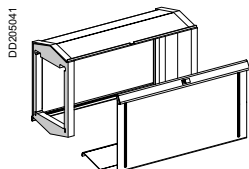
## Classic offer

## Accessories

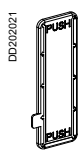
## For current KS offer



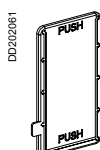
KSB400ZB2



KSB1000ZB2



KSB400ZB1



KSB1000ZB1

## IP kits

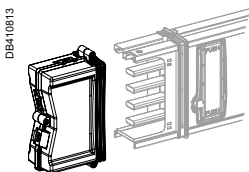
## IP55 blanking plates for outlets and Sprinkler proofing kits

| Cat. n°         | KSB400ZB2     | KSB1000ZB2     | KSB400ZB1     | KSB1000ZB1     |
|-----------------|---------------|----------------|---------------|----------------|
| Compatible with | KSA100 to 400 | KSA500 to 1000 | KSA100 to 400 | KSA500 to 1000 |
| Rating (A)      | 400           | 1000           | 400           | 1000           |
| Polarity        | -             | -              | -             | -              |

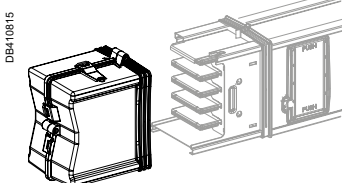
## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 1,3   | 2,05  | 0,01  | 0,01  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 10    | 10    |

## For current KS offer



KSA400AF1



KSA1000AF1

## Accessories

## End covers and sealing kits

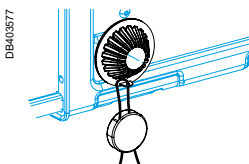
| Cat. n°         | KSA400AF1     | KSA1000AF1     | KSB1000ZP1     | KSB1000ZP2     |
|-----------------|---------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 400 | KSA500 to 1000 | KSA100 to 1000 | KSA100 to 1000 |
| Rating (A)      | 400           | 1000           | 0              | 0              |
| Polarity        | -             | -              | -              | -              |

## Characteristics

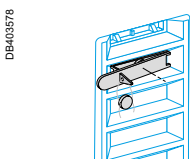
|                                     |                                      |                    |                    |
|-------------------------------------|--------------------------------------|--------------------|--------------------|
| End feed unit<br>for KS100 to KS400 | End feed unit<br>for KS500 to KS1000 | To seal any screws | To seal KS outlets |
|-------------------------------------|--------------------------------------|--------------------|--------------------|

## Additional Characteristics

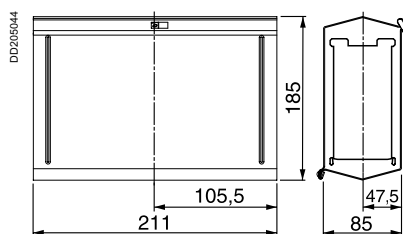
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 0,2   | 0,4   | 0,007 | 0,002 |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 20    | 20    |



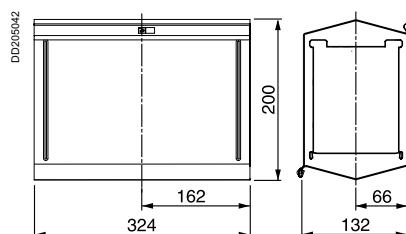
KSB1000ZP1



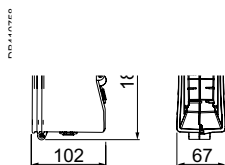
KSB1000ZP2



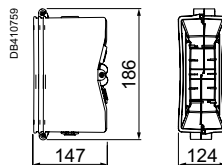
KSA400AF1



KSB1000ZB2



KSA400AF1

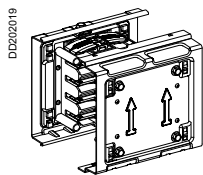


KSA1000AF1

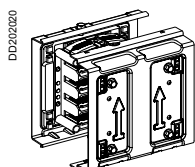
# Classic offer

## Accessories

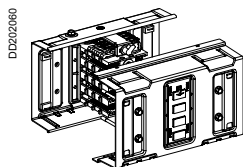
For current KS offer



KSA250ZJ4



KSA400ZJ4



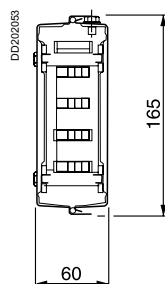
KSA630 and 1000 ZJ •

### Spare parts Electrical and mechanical jointing unit

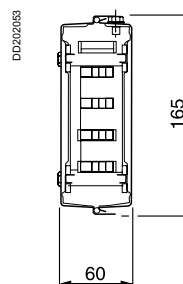
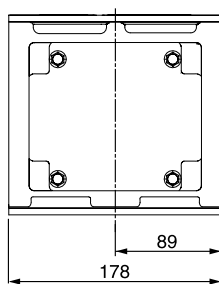
| Cat. n°         | KSA250ZJ4     | KSA400ZJ4   | KSA630ZJ4      | KSA1000ZJ4     |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| Rating (A)      | 250           | 400         | 630            | 1000           |
| Polarity        | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

### Additional Characteristics

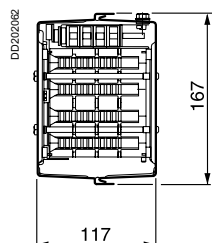
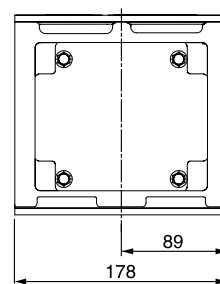
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 1,7   | 1,9   | 4,3   | 4,7   |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



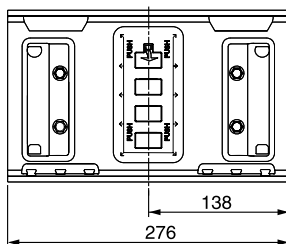
KSA250ZJ4



KSA400ZJ4



KSA630 and 1000 ZJ •



D

# Canalis KS range

# Advanced offer

All you need for a complex run adapted to your specificity

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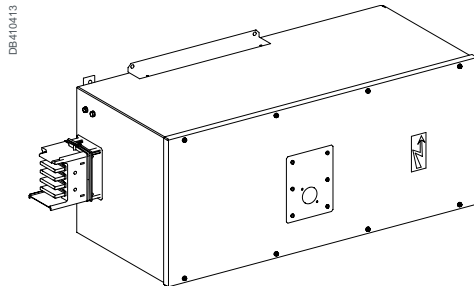
|                                        |         |
|----------------------------------------|---------|
| Description.....                       | page 69 |
| Overview .....                         | page 78 |
| Commercial numbers and dimensions..... | page 80 |

## Description

# Feed units and end covers

### From 100 to 1000 A

Used to feed a KS line by cables or directly from the busbars in a switchboard. They can be mounted at the end of a line (end feed, left or right) . Feed units with circuit breaker protection (not supplied) are available for all ratings.

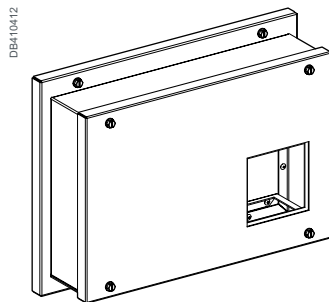


#### Equipped end feed unit for horizontal trunking Type AB.D

Two type of end feed units are available:

- left: ABGD,
- right: ABDD.

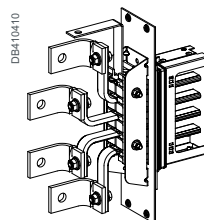
It can be equipped with a Compact NSX or NS circuit breaker and Micrologic. Control units are designed to protect power circuits and loads. Measurements of current, voltage, frequency, power and power quality optimize continuity of service and energy management. It is supplied with an end cover.



#### Communication box Type ABCB

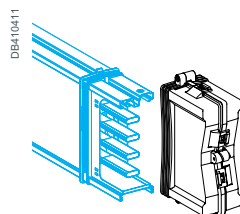
Energy measurement is performed by an energy meter, visible on the front of the feed unit.

The measuring system consists of current transformers and a PM5350 for the monitoring of electrical consumption of busbar trunking lines. Communication with supervision systems is done by modbus TCP through a EGX300 gateway (PM5350 and EGX300 are not included).



#### Flange feed unit Type AE

Equipped with splayed bars and a mounting plate for direct connection to the busbars of a switchboard. It can be mounted on either end of a component and is supplied with an end cover.



#### End cover Type AF

The end cover protects and isolates the ends of the conductors. It is mounted on the last component. Supplied with all feed units.



## Description

# Straight lengths with tap-off outlets

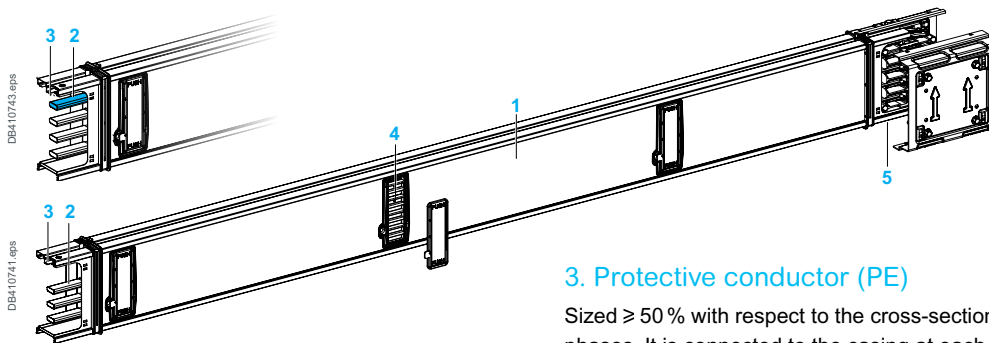
From 100 to 1000 A

Straight lengths components are designed to carry the current and supply loads.

Components of the Advanced offer are available in 6 ratings: 250, 400, 500, 630, 800 and 1000 A. Polarity can be 3L+N+PE or 3L+PE. Busbar trunking rated 100 to 400 A may be equipped with tap-off units up to 250 A. Higher rating busbar trunking elements may be equipped with the entire range of tap-off units.

All the insulating and plastic materials are halogen-free and have enhanced fire-withstand capabilities (incandescent wire test as per standard IEC 60695-2: 960 °C for components in contact with live parts and 650 °C for other components). The degree of protection of the busbar trunking is IP55 for indoor installations. For the sprinkler protection, it is necessary to add a specific sealing kit.

The basic structure of the line is made up of:



### 1. Casing, crimp closed, made of hot-galvanised sheet steel

Pre-lacquered RAL 9001 white, this casing, shaped and ribbed by roll-forming, provides excellent resistance to bending and twisting.

### 2. Conductors

**For the 250 to 1000 A rating:** aluminium bars equipped with silver-plated aluminium/copper bimetal laminate contacts electrically welded at junctions and tap-off points.

### 3. Protective conductor (PE)

Sized  $\geq 50\%$  with respect to the cross-section of phases. It is connected to the casing at each junction

### 4. Tap-off outlets

From 0.5 to 1 meter on both sides of the trunking.

### 5. Mechanical and electrical jointing system

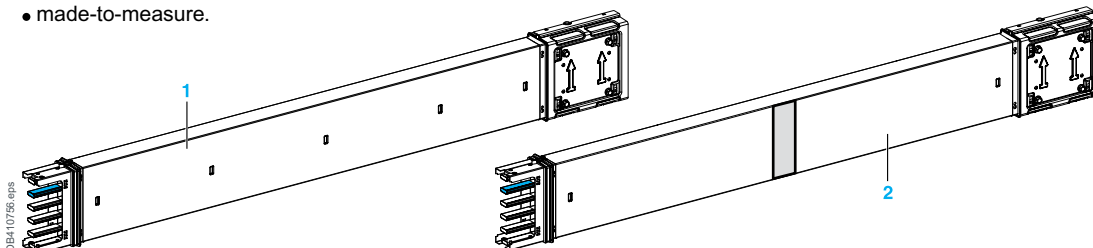
Electrical jointing is provided by a block with flexible grip contacts made of silver-plated copper.

This block equally absorbs the difference in conductor and casing thermal expansion for each length.

**For the 400 to 1000 A rating,** electrical jointing is ensured by a quarter-turn locking mechanism for each conductor.

The straight lengths without tap-off outlet are available in different lengths:

- in standard with 2 lengths: 2 and 3 metres
- made-to-measure.



### 1. Custom-length run components

- Used to adjust the length of a line (e.g. between two changes in direction).
- These components are made to order and do not have tap-off outlets.

### 2. Fire barrier

- This type of length is used to transit a fire-resistant wall (e.g. between two rooms in a building).
- It has been tested in a certified laboratory and complies with standard EN 1363-1.

The laboratory report lists the following results:

- thermal insulation:  $\geq 120$  minutes
- resistance to flames:  $\geq 120$
- minutes stability:  $\geq 120$  minutes.

## Description

# Changing direction

### From 100 to 1000 A

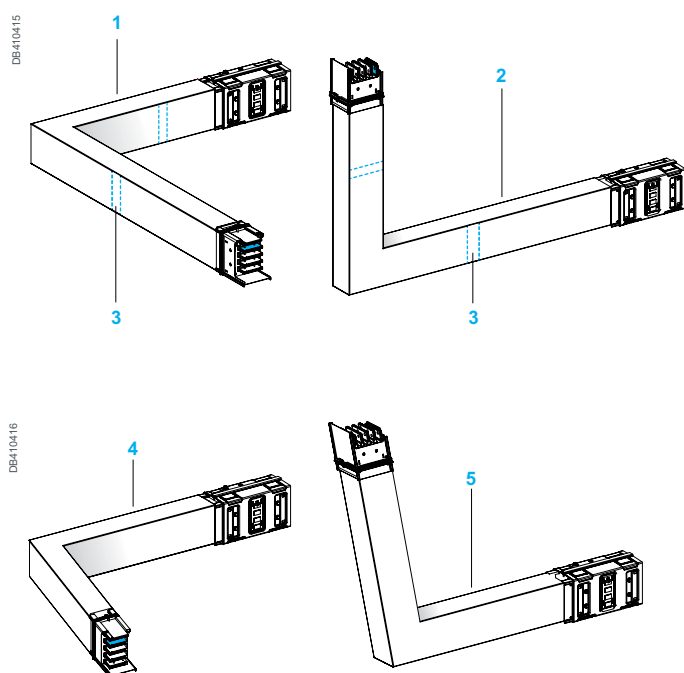
All components for changing direction of the Advanced offer are made to measure.

They are available in several configurations:

| Components with 2 sides                        | Type |
|------------------------------------------------|------|
| Side (A) is fixed, side (B) is made to measure | 41   |
| Side (B) is fixed, side (A) is made to measure | 42   |
| Side (A) and (B) are made to measure           | 43   |

| Components with 3 branches                              | Type |
|---------------------------------------------------------|------|
| Side (A) and (C) are fixed, side (B) is made to measure | 41   |
| Side (A), (B) and (C) are made to measure               | 43   |

They are all supplied with a junction block. The degree of protection of the busbar trunking is IP55 for indoor installations.



### Elbows

#### Made-to-measure

Type DLR, DLL, DLE, DLF, DLC

#### Simple

1. Edgewise: two models. One for turning right and one for turning left.
2. Flatwise: two models, one for turning up and the other for turning down.

#### With fire barrier

3. Changes of direction fitted with fire breaks, located at the level of the slab or the partition, avoids any risk of fire spreading via the busbar trunking.

Edgewise: one model for turning right and one model for turning left.

Flatwise: two models, one for turning up and the other for turning down.

Elements can be fitted with **only one** fire barrier either on side A or B. Indicate the position of the fire barrier with dimensions X and Y.

#### Made-to-measure angle

3. Edgewise: one model for turning right or left.
4. Flatwise: two models, one for turning up and the other for turning down.

These element **can't be fitted** with a fire break.

### Zeds

The Z-connections allow the busway to be installed around obstacles.

#### Made-to-measure

Type DZE, DZCG, DZCH

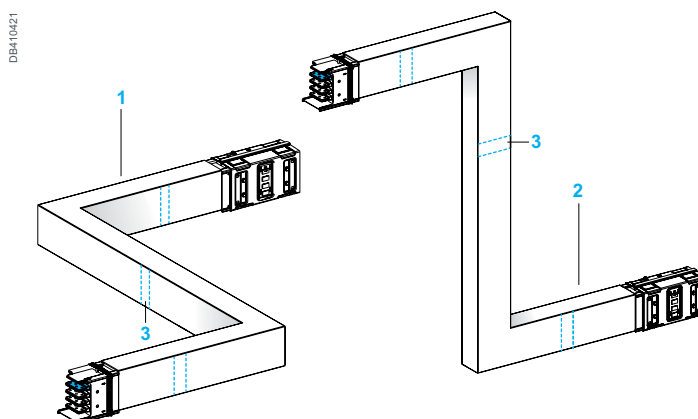
#### Simples

1. Edgewise: two models for turning down. One for turning right and the other for turning left.
2. Flatwise: two models for turning up. One for turning right and the other for turning left.

#### With fire barrier

3. Zeds can be fitted with fire breaks, located at the level of the slab or the partition, avoids any risk of fire spreading via the busbar trunking.

Elements can be fitted with **only one** fire barrier either on side A, B or C. Indicate the position of the fire barrier with dimensions X and Y.



# Description

## Changing direction

### From 100 to 1000 A

**Multiples**

Type **DMBL**, **DMCL**, **DMBK**, **DMCK**

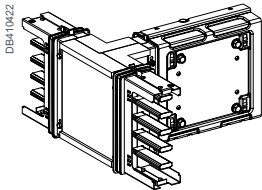
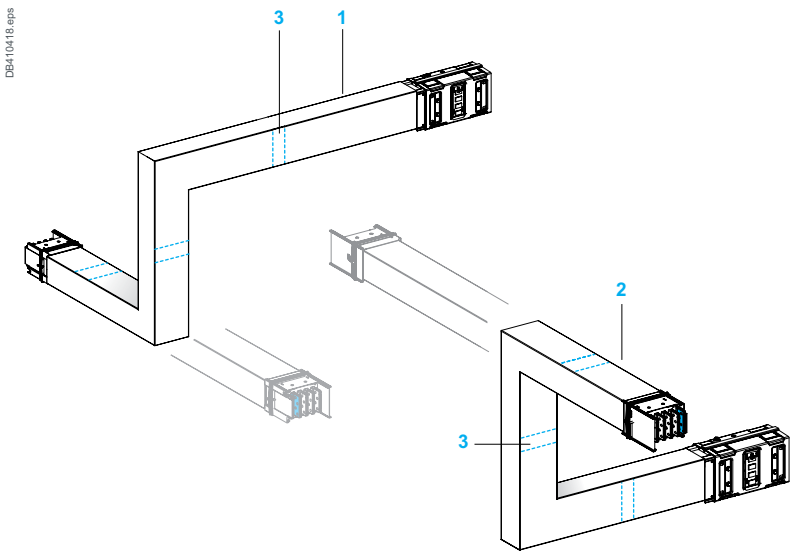
**Simple**

- 1. Edgewise: two models for turning down.  
One for turning right and the other for turning left.
- 2. Flatwise: two models for turning up.  
One for turning right and the other for turning left.

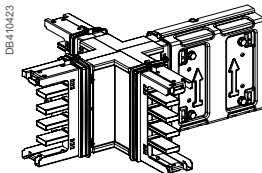
**With fire barrier**

- 3. Multiples can be fitted with fire breaks, located at the level of the slab or the partition, avoids any risk of fire spreading via the busbar trunking.  
Edgewise: two models for turning down.  
One for turning right and the other for turning left.  
Flatwise: two models for turning up.  
One for turning right and the other for turning left.

Elements can be fitted with **only one** fire barrier either on side A, B or C. Indicate the position of the fire barrier with the dimension X and Y.



**Tee**  
Type **DTC**  
It enables to create  
2 branches perpendicular  
to the main line.



**Cross**  
Type **DXC**  
It enables to create  
3 branches perpendicular  
to the main line.

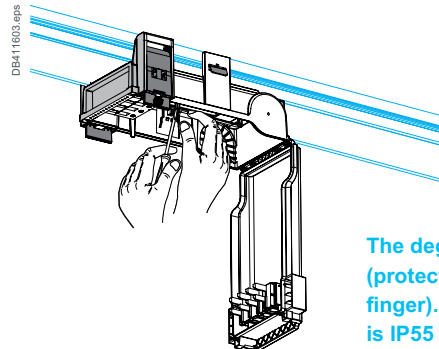
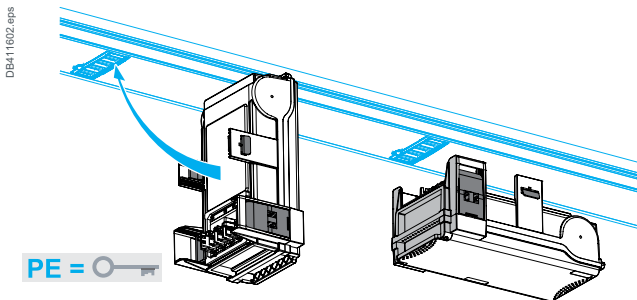
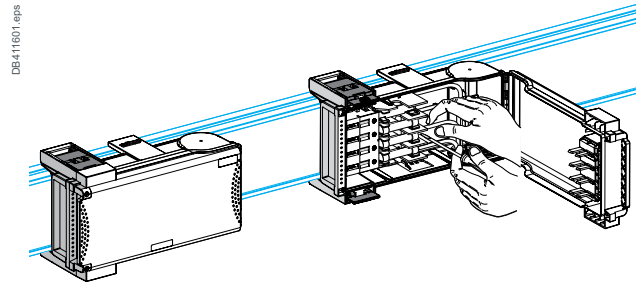
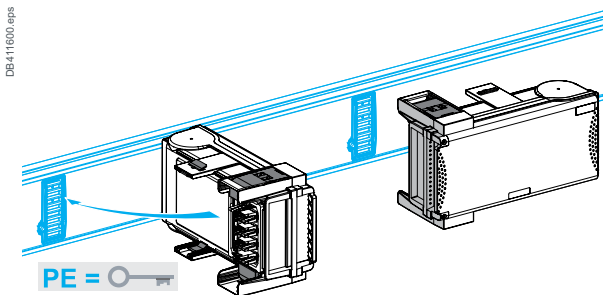
| Rating (A)  |  | Dimensions (mm) |                            |                          |        |
|-------------|--|-----------------|----------------------------|--------------------------|--------|
|             |  | Height          | Width<br>(busbar trunking) | Width<br>(jointing unit) | Length |
| 100 to 400  |  | 146             | 54                         | 63                       | 1500   |
|             |  |                 |                            |                          | 2000   |
|             |  |                 |                            |                          | 3000   |
|             |  |                 |                            |                          | 5000   |
|             |  |                 |                            |                          |        |
| 500 to 1000 |  | 146             | 113                        | 119                      | 1500   |
|             |  |                 |                            |                          | 2000   |
|             |  |                 |                            |                          | 3000   |
|             |  |                 |                            |                          | 5000   |
|             |  |                 |                            |                          |        |

## Description

# Tap-off units

### From 100 to 1000 A

For rapid connection of loads or secondary lines, in compliance with installation standards IEC 60364 and regulations, whatever the system earthing arrangement (TT, TNS, TNC or IT). They can be handled and removed under off-load conditions with the trunking energised. Tap-off units can be assembled on either side when the busbar trunking is installed edgewise. The tap-off outlets are automatically opened or closed when tap-off units are connected or removed. With the cover open, no live parts are accessible. It can also be installed on flatwise busbar trunking facing downwards.



The degree of protection is IP••B (protected against access with a finger). The degree of protection is IP55 for indoor installations as standard (no accessories are required).

### Disconnection principle

#### Disconnection by unplugging the tap-off unit.

The access to the electrical devices and the terminals is possible only when the tap-off unit is unplugged (i.e. not energised). An interlocking device restricts connection to the trunking when the cover has been removed.

**Disconnection of tap-off units with fuses and modular devices** (category AC22 to AC20) is obtained by opening the tap-unit cover.

**Tap-off unit disconnection by unplugging the tap-off unit or opening the cover should be carried out only if the downstream load is de-energised.**

For tap-units with circuit breakers, **restricts:**

- plugging and unplugging in the tap-off unit when the cover is closed
- closing the cover before the tap-off unit is locked onto the trunking
- having access to the electrical equipment and the terminals when energised
- opening the cover in the position "ON" (tap-off units equipped with a Compact NSX or NG circuit breaker).

These tap-off units can be equipped with certain accessories such as circuit-opening contacts on the cover, lead seals, etc.

E

## Description

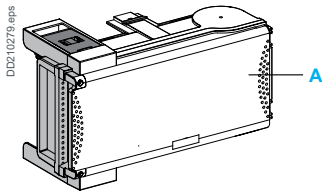
# Tap-off units

From 100 to 1000 A

### 2 types of housing

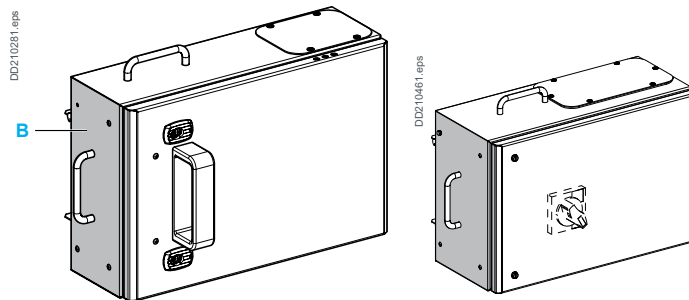
#### 1. Empty tap-off units with isolators (A) up to 100 A are made of plastic

- Colour: RAL 9001 white for the casing and the grip zones and transparent green for the cover. The fixing mechanisms are in RAL 7016.
- Material: self-extinguishing, halogen free insulating plastic (fire resistant and very high temperature withstand).
- Other characteristics: cable gland drilling zone, stainless steel screws and the door can be lead sealed.
- SV tap-off units are delivered empty for customisation.

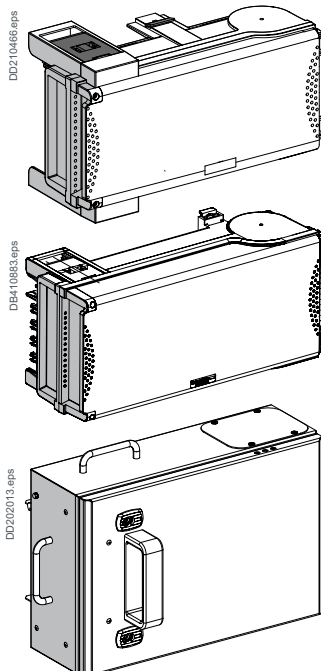


#### 2. Tap-off units from 160 to 400 A are made of metal sheet (B)

- Colour: RAL 9001 white for the casing, RAL 9005 black for the grip zones (100 % polyester paint on galvanised sheet steel).
- 400 A tap-off units can be only installed on straight lengths  $\geq 500$  A.
- Other characteristics:
  - removable cover with hinges enabling opening up to 120°, vertically bevelled cover with double bends for enhanced rigidity, polyurethane gaskets
  - equipped with cable-gland plates marked every 25 mm and designed for maximum access.



### Description of the Advanced offer



#### Empty tap-off units with isolator Type SV

SV tap-off units exist in 3 ratings: 50, 100 and 160 A, polarity 3L+N+PE or 3L+PEN.

They are delivered equipped with an isolator. Protection devices and other components can be installed in the tap-off units.

A mounted plate or a DIN rail (not included) must be installed to receive components.

#### Tap-off units for fuses

##### Type SE

SE 630A tap-off units exist in 2 polarities: 3L+N+PE or 3L+PEN.

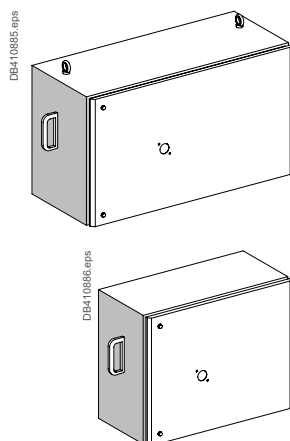
They are equipped with fuse holders for size 3 fuses, blade type.

These tap-off units are not plug-in but mounted between 2 components and must be supported specifically. A jointing unit is delivered with each Schneider Electric tap-off units.

# Description

## Tap-off units

### From 100 to 1000 A



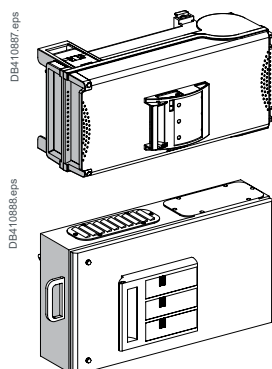
#### Tap-off units for fuse switch-disconnector Fupact INF Type SDF

SDF tap-off units exist in 2 ratings:  
250 and 400 A and in 2 polarities 3L+N+PE or 3L+PEN.

They are equipped with a mounting plate designed to receive a INFB or INFD Fupact.

(See Fupact catalogue for commercial references).

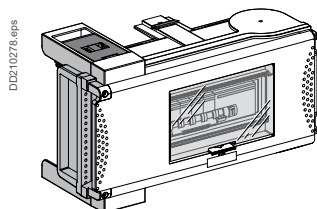
An extended rotary handle is needed to switch the Fupact INF (Not included).



#### Tap-off units with a fuse switch-disconnector Fupact ISFT Type HD

HD tap-off units exist in ratings 125, 250 and 400 A in polarity 3L+PEN.

They are equipped with an isolator and with a fuse switch-disconnector for NH fuses located on the door.



#### Tap-off unit with a Surge Arrester Type QPRD

These tap-off unit is equipped with an isolator and pre-equipped with a modular surge arrester Quick PRD40r.

These units are ready for use, can be plugged directly into the busbar trunking and no additional wiring required.

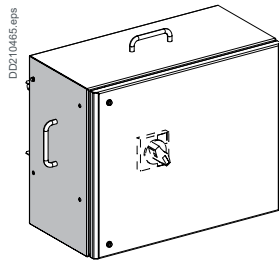
They should be positioned at least 30 m upstream of each load to be protected.

E

## Description

# Tap-off units

From 100 to 1000 A

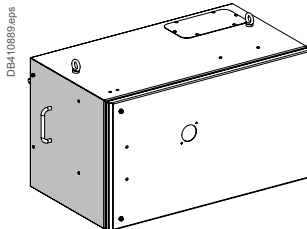


Tap-off units for Compact NSX circuit breaker and space provider for Current transformer (CT) blocks

### Type DC.TRE

DC.TRE tap-off units exist in ratings 250 and 400 A and in 2 polarities: 3L+N+PE or 3L+PEN.

They are similar to DC tap-off units with a mounting plate for Compact NSX circuit breaker and for an extended rotary handle but larger for the installation of CT (current transformer) blocks.

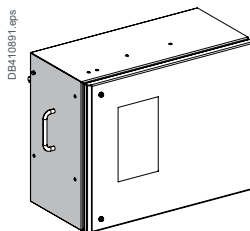
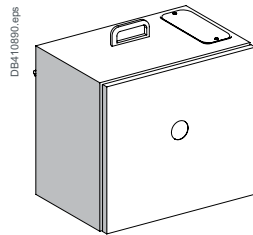


Tap-off units for Compact NSX circuit breaker PLUG-IN

### Type DD

DD tap-off units exist in ratings 160 and 400 A in polarity 3L+N+PE.

They are equipped with a plug-in base for Compact NSX circuit breaker and for an extended rotary.



Tap-off units for Compact NSX circuit breaker with Electrical Handle

### Type DB

DB tap-off units exist in ratings 160, 250 and 400 A in 2 polarities: 3L+N+PE or 3L+PEN.

They are equipped with a mounting plate for NSX circuit breaker equipped with an electrical handle. A door switch is also delivered to wire the electrical handle in order to restrict the opening of the door under load conditions.



## Description

## Compatibility of tap-off units and busbar trunkings

| Distance between 2 outlets                                             |   | Case                                                            | KS 100 to 400 A                           |                            | Case             | KS 500 to 1000 A |                                            |                            |                  |
|------------------------------------------------------------------------|---|-----------------------------------------------------------------|-------------------------------------------|----------------------------|------------------|------------------|--------------------------------------------|----------------------------|------------------|
| 1000 mm                                                                |   |                                                                 |                                           |                            |                  |                  |                                            |                            |                  |
| 3 m (6 outlets)<br>KSA100... 1000ED4306                                | ① |                                                                 |                                           |                            | ③                |                  |                                            |                            |                  |
| 5 m (10 outlets)<br>KSA100... 1000ED45010                              |   |                                                                 |                                           |                            |                  |                  |                                            |                            |                  |
| 500 mm                                                                 |   |                                                                 |                                           |                            |                  |                  |                                            |                            |                  |
| 3 m (10 or 12 outlets)<br>KSA100... 400ED43012<br>KSA500... 800ED43010 | ② |                                                                 |                                           |                            | ④                |                  |                                            |                            |                  |
| 5 m (18 or 20 outlets)<br>KSA100... 400ED45020<br>KSA500... 800ED45018 |   |                                                                 |                                           |                            |                  |                  |                                            |                            |                  |
|                                                                        |   | Case                                                            | KS 100 to 400 A - Mountings available on: |                            |                  | Case             | KS 500 to 1000 A - Mountings available on: |                            |                  |
|                                                                        |   |                                                                 | A<br>1st outlet                           | B<br>2 consecutive outlets | C<br>Last outlet |                  | A<br>1st outlet                            | B<br>2 consecutive outlets | C<br>Last outlet |
| <br>W* = 157 mm                                                        | ① | ●                                                               | ■                                         | ●                          | ③                | ●                | ■                                          | ●                          |                  |
|                                                                        | ② | ●                                                               | ■                                         | X                          | ④                | ●                | ■                                          | ●                          |                  |
| <br>W = 444 mm                                                         | ① | ●                                                               | ■                                         | ●                          | ③                | ●                | ■                                          | ●                          |                  |
|                                                                        | ② | ●                                                               | ■                                         | X                          | ④                | ●                | ■                                          | X                          |                  |
| <br>W = 450 mm                                                         | ① | X                                                               | ■                                         | ●                          | ③                | ●                | ■                                          | ●                          |                  |
|                                                                        | ② | X                                                               | ■                                         | X                          | ④                | ●                | ■                                          | X                          |                  |
| <br>W = 500 mm                                                         | ① | X                                                               | ■                                         | ●                          | ③                | ●                | ■                                          | ●                          |                  |
|                                                                        | ② | X                                                               | △                                         | X                          | ④                | ●                | △                                          | X                          |                  |
| <br>W = 600 mm                                                         | ① | ●                                                               | ■                                         | ●                          | ③                | ●                | ■                                          | ●                          |                  |
|                                                                        | ② | ●                                                               | △                                         | X                          | ④                | ●                | △                                          | X                          |                  |
| <br>W = 700 mm                                                         | ① | Impossible to fit a 400 A tap-off unit on a busway 100 to 400 A |                                           |                            | ③                | ●                | ■                                          | X                          |                  |
|                                                                        | ② |                                                                 |                                           |                            | ④                | ●                | △                                          | X                          |                  |

\* W = width of the tap-off unit

- The tap-off unit can be mounted at this position
- The right outlet is available for another tap-off unit
- △ The right outlet is hidden by the tap-off unit
- X Impossible to mount this tap-off unit at this position

## Offer overview

### Busbar ratings (A)

|                                               | 100            | 160            | 250            | 400            | 500            | 630            | 800             | 1000            |
|-----------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| <b>Feed units</b>                             |                |                |                |                |                |                |                 |                 |
| <b>Mounted on the busway</b>                  |                |                |                |                |                |                |                 |                 |
| For line protection with a NSX (not included) |                |                |                |                |                |                |                 |                 |
| Right mounting 3L+N+PE                        | KSA250ABDD4    | KSA250ABDD4    | KSA250ABDD4    | KSA400ABDD4    | KSA630ABDD4    | KSA630ABDD4    | KSA1000ABDD4    | KSA1000ABDD4    |
| 3L+PEN                                        | KSA250ABDD5    | KSA250ABDD5    | KSA250ABDD5    | KSA400ABDD5    | KSA630ABDD5    | KSA630ABDD5    | KSA1000ABDD5    | KSA1000ABDD5    |
| Left mounting 3L+N+PE                         | KSA250ABGD4    | KSA250ABGD4    | KSA250ABGD4    | KSA400ABGD4    | KSA630ABGD4    | KSA630ABGD4    | KSA1000ABGD4    | KSA1000ABGD4    |
| 3L+PEN                                        | KSA250ABGD5    | KSA250ABGD5    | KSA250ABGD5    | KSA400ABGD5    | KSA630ABGD5    | KSA630ABGD5    | KSA1000ABGD5    | KSA1000ABGD5    |
| <b>Flange units</b>                           |                |                |                |                |                |                |                 |                 |
| 3L+N+PE                                       | KSA250AE4      | KSA250AE4      | KSA250AE4      | KSA400AE4      | KSA630AE4      | KSA630AE4      | KSA1000AE4      | KSA1000AE4      |
| <b>Accessories for feed units</b>             |                |                |                |                |                |                |                 |                 |
| For Smart tap-off units                       |                |                |                |                |                |                |                 |                 |
| Box for measurement devices                   | KSA250ABCB4    | KSA250ABCB4    | KSA250ABCB4    | KSA400ABCB4    | -              | -              | -               | -               |
| FL21 cable plates                             |                |                |                |                |                |                |                 |                 |
| For AB Feed units                             | KSA250ABZFL21  | KSA250ABZFL21  | KSA250ABZFL21  | KSA400ABZFL21  | KSA630ABZFL21  | KSA630ABZFL21  | KSA1000ABZFL21  | KSA1000ABZFL21  |
| For ABT Feed units                            | KSA250ABTZFL21 | KSA250ABTZFL21 | KSA250ABTZFL21 | KSA400ABTZFL21 | KSA630ABTZFL21 | KSA630ABTZFL21 | KSA1000ABTZFL21 | KSA1000ABTZFL21 |

### Straight lengths

|                                                                  |               |               |               |               |               |               |               |               |
|------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Horizontal mounting for distribution</b>                      |               |               |               |               |               |               |               |               |
| With high density outlets - 3L+N+PE                              |               |               |               |               |               |               |               |               |
| 1500 mm (6 or 4 outlets)                                         | KSA250ED4156  | KSA250ED4156  | KSA250ED4156  | KSA400ED4156  | KSA630ED4154  | KSA630ED4154  | KSA1000ED4154 | KSA1000ED4154 |
| 2000 mm (8 or 6 outlets)                                         | KSA250ED4208  | KSA250ED4208  | KSA250ED4208  | KSA400ED4208  | KSA630ED4206  | KSA630ED4206  | KSA1000ED4206 | KSA1000ED4206 |
| With high density outlets - 3L+PE                                |               |               |               |               |               |               |               |               |
| 3000 mm (12 or 6 outlets)                                        | KSA250ED33012 | KSA250ED33012 | KSA250ED33012 | KSA400ED33012 | KSA500ED3306  | KSA630ED3306  | KSA800ED3306  | -             |
| 5000 mm (20 or 10 outlets)                                       | KSA250ED35020 | KSA250ED35020 | KSA250ED35020 | KSA400ED35020 | KSA500ED35010 | KSA630ED35010 | KSA800ED35010 | -             |
| <b>For transport (without outlets)</b>                           |               |               |               |               |               |               |               |               |
| Fixed dimension - 3L+N+PE                                        |               |               |               |               |               |               |               |               |
| 3000 mm                                                          | KSA250ET430   | KSA250ET430   | KSA250ET430   | KSA400ET430   | KSA500ET430   | KSA630ET430   | KSA800ET430   | KSA1000ET430  |
| 5000 mm                                                          | KSA250ET450   | KSA250ET450   | KSA250ET450   | KSA400ET450   | KSA500ET450   | KSA630ET450   | KSA800ET450   | KSA1000ET450  |
| Made-to-measure - 3L+N+PE                                        |               |               |               |               |               |               |               |               |
| 500 to 1900 mm                                                   | KSA250ET43A   | KSA250ET43A   | KSA250ET43A   | KSA400ET43A   | KSA630ET43A   | KSA630ET43A   | KSA1000ET43A  | KSA1000ET43A  |
| Made-to-measure - With 1 fire barrier free positioning - 3L+N+PE |               |               |               |               |               |               |               |               |
| 800 to 1900 mm                                                   | KSA250ET43AF  | KSA250ET43AF  | KSA250ET43AF  | KSA400ET43AF  | KSA500ET43AF  | KSA630ET43AF  | KSA1000ET43AF | KSA1000ET43AF |

"KS.....": Reference specifically adapted to the rating of the busbar trunking

"KS.....": Compatible reference with the rating of the busbar trunking

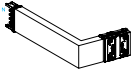
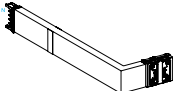
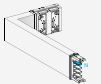
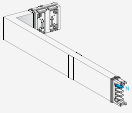
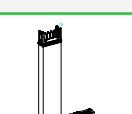
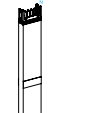
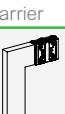
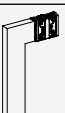
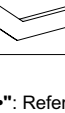
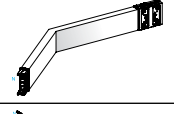
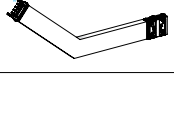
## Offer overview

## Busbar ratings (A)

| 100 | 160 | 250 | 400 | 500 | 630 | 800 | 1000 |
|-----|-----|-----|-----|-----|-----|-----|------|
|-----|-----|-----|-----|-----|-----|-----|------|

## Change direction elements

## Elbows - 3L+N+PE

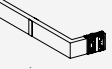
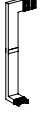
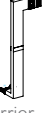
|                                                                                     |                                                     |              |              |              |                                                     |              |               |               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|--------------|--------------|--------------|-----------------------------------------------------|--------------|---------------|---------------|
|    | A = 200 x B = 200 to 750                            |              |              |              | A = 290 x B = 290 to 800                            |              |               |               |
|                                                                                     | KSA250DLR41A                                        | KSA250DLR41A | KSA250DLR41A | KSA400DLR41A | KSA630DLR41A                                        | KSA630DLR41A | KSA1000DLR41A | KSA1000DLR41A |
|                                                                                     | A = 200 to 750 x B = 200                            |              |              |              | A = 290 to 800 x B = 290                            |              |               |               |
|                                                                                     | KSA250DLR42A                                        | KSA250DLR42A | KSA250DLR42A | KSA400DLR42A | KSA630DLR42A                                        | KSA630DLR42A | KSA1000DLR42A | KSA1000DLR42A |
|    | A = 200 to 750 x B = 200 to 750                     |              |              |              | A = 290 to 800 x B = 290 to 800                     |              |               |               |
|                                                                                     | KSA250DLR43A                                        | KSA250DLR43A | KSA250DLR43A | KSA400DLR43A | KSA630DLR43A                                        | KSA630DLR43A | KSA1000DLR43A | KSA1000DLR43A |
|                                                                                     | A = 200 x B = 700 to 1200                           |              |              |              | A = 290 x B = 700 to 1200                           |              |               |               |
|                                                                                     | KSA250DLR41F                                        | KSA250DLR41F | KSA250DLR41F | KSA400DLR41F | KSA630DLR41F                                        | KSA630DLR41F | KSA1000DLR41F | KSA1000DLR41F |
|    | A = 700 to 1200 x B = 200                           |              |              |              | A = 700 to 1200 x B = 290                           |              |               |               |
|                                                                                     | KSA250DLR42F                                        | KSA250DLR42F | KSA250DLR42F | KSA400DLR42F | KSA630DLR42F                                        | KSA630DLR42F | KSA1000DLR42F | KSA1000DLR42F |
|                                                                                     | A = 200 to 750 x B = 700 to 1200                    |              |              |              | A = 290 to 800 x B = 700 to 1200                    |              |               |               |
|                                                                                     | KSA250DLR43F                                        | KSA250DLR43F | KSA250DLR43F | KSA400DLR43F | KSA630DLR43F                                        | KSA630DLR43F | KSA1000DLR43F | KSA1000DLR43F |
|   | A = 200 x B = 200 to 750                            |              |              |              | A = 290 x B = 290 to 800                            |              |               |               |
|                                                                                     | KSA250DLL41A                                        | KSA250DLL41A | KSA250DLL41A | KSA400DLL41A | KSA630DLL41A                                        | KSA630DLL41A | KSA1000DLL41A | KSA1000DLL41A |
|                                                                                     | A = 200 to 750 x B = 200                            |              |              |              | A = 290 to 800 x B = 290                            |              |               |               |
|                                                                                     | KSA250DLL42A                                        | KSA250DLL42A | KSA250DLL42A | KSA400DLL42A | KSA630DLL42A                                        | KSA630DLL42A | KSA1000DLL42A | KSA1000DLL42A |
|  | A = 200 to 750 x B = 200 to 750                     |              |              |              | A = 290 to 800 x B = 290 to 800                     |              |               |               |
|                                                                                     | KSA250DLR43A                                        | KSA250DLR43A | KSA250DLR43A | KSA400DLR43A | KSA630DLR43A                                        | KSA630DLR43A | KSA1000DLR43A | KSA1000DLR43A |
|                                                                                     | A = 200 x B = 700 to 1200                           |              |              |              | A = 290 x B = 700 to 1200                           |              |               |               |
|                                                                                     | KSA250DLL41F                                        | KSA250DLL41F | KSA250DLL41F | KSA400DLL41F | KSA630DLL41F                                        | KSA630DLL41F | KSA1000DLL41F | KSA1000DLL41F |
|  | A = 700 to 1200 x B = 200                           |              |              |              | A = 700 to 1200 x B = 290                           |              |               |               |
|                                                                                     | KSA250DLL42F                                        | KSA250DLL42F | KSA250DLL42F | KSA400DLL42F | KSA630DLL42F                                        | KSA630DLL42F | KSA1000DLL42F | KSA1000DLL42F |
|                                                                                     | A = 200 to 750 x B = 700 to 1200                    |              |              |              | A = 290 to 800 x B = 700 to 1200                    |              |               |               |
|                                                                                     | KSA250DLR43F                                        | KSA250DLR43F | KSA250DLR43F | KSA400DLR43F | KSA630DLR43F                                        | KSA630DLR43F | KSA1000DLR43F | KSA1000DLR43F |
|  | A = 250 x B = 250 to 750                            |              |              |              | A = 290 x B = 290 to 800                            |              |               |               |
|                                                                                     | KSA250DLE41A                                        | KSA250DLE41A | KSA250DLE41A | KSA400DLE41A | KSA630DLE41A                                        | KSA630DLE41A | KSA1000DLE41A | KSA1000DLE41A |
|                                                                                     | A = 250 to 750 x B = 250                            |              |              |              | A = 290 to 800 x B = 290                            |              |               |               |
|                                                                                     | KSA250DLE42A                                        | KSA250DLE42A | KSA250DLE42A | KSA400DLE42A | KSA630DLE42A                                        | KSA630DLE42A | KSA1000DLE42A | KSA1000DLE42A |
|  | A = 250 to 750 x B = 250 to 750                     |              |              |              | A = 290 to 800 x B = 290 to 800                     |              |               |               |
|                                                                                     | KSA250DLE43A                                        | KSA250DLE43A | KSA250DLE43A | KSA400DLE43A | KSA630DLE43A                                        | KSA630DLE43A | KSA1000DLE43A | KSA1000DLE43A |
|                                                                                     | A = 250 x B = 700 to 1200                           |              |              |              | A = 290 x B = 700 to 1200                           |              |               |               |
|                                                                                     | KSA250DLE41F                                        | KSA250DLE41F | KSA250DLE41F | KSA400DLE41F | KSA630DLE41F                                        | KSA630DLE41F | KSA1000DLE41F | KSA1000DLE41F |
|  | A = 700 to 1200 x B = 250                           |              |              |              | A = 700 to 1200 x B = 290                           |              |               |               |
|                                                                                     | KSA250DLE42F                                        | KSA250DLE42F | KSA250DLE42F | KSA400DLE42F | KSA630DLE42F                                        | KSA630DLE42F | KSA1000DLE42F | KSA1000DLE42F |
|                                                                                     | A = 250 to 750 x B = 700 to 1200                    |              |              |              | A = 290 to 800 x B = 700 to 1200                    |              |               |               |
|                                                                                     | KSA250DLE43F                                        | KSA250DLE43F | KSA250DLE43F | KSA400DLE43F | KSA630DLE43F                                        | KSA630DLE43F | KSA1000DLE43F | KSA1000DLE43F |
|  | A = 250 x B = 250 to 750                            |              |              |              | A = 290 x B = 290 to 800                            |              |               |               |
|                                                                                     | KSA250DLF41A                                        | KSA250DLF41A | KSA250DLF41A | KSA400DLF41A | KSA630DLF41A                                        | KSA630DLF41A | KSA1000DLF41A | KSA1000DLF41A |
|                                                                                     | A = 250 to 750 x B = 250                            |              |              |              | A = 290 to 800 x B = 290                            |              |               |               |
|                                                                                     | KSA250DLF42A                                        | KSA250DLF42A | KSA250DLF42A | KSA400DLF42A | KSA630DLF42A                                        | KSA630DLF42A | KSA1000DLF42A | KSA1000DLF42A |
|  | A = 250 to 750 x B = 250 to 750                     |              |              |              | A = 290 to 800 x B = 290 to 800                     |              |               |               |
|                                                                                     | KSA250DLF43A                                        | KSA250DLF43A | KSA250DLF43A | KSA400DLF43A | KSA630DLF43A                                        | KSA630DLF43A | KSA1000DLF43A | KSA1000DLF43A |
|                                                                                     | A = 250 x B = 700 to 1200                           |              |              |              | A = 290 x B = 700 to 1200                           |              |               |               |
|                                                                                     | KSA250DLF41F                                        | KSA250DLF41F | KSA250DLF41F | KSA400DLF41F | KSA630DLF41F                                        | KSA630DLF41F | KSA1000DLF41F | KSA1000DLF41F |
|  | A = 700 to 1200 x B = 250                           |              |              |              | A = 700 to 1200 x B = 290                           |              |               |               |
|                                                                                     | KSA250DLF42F                                        | KSA250DLF42F | KSA250DLF42F | KSA400DLF42F | KSA630DLF42F                                        | KSA630DLF42F | KSA1000DLF42F | KSA1000DLF42F |
|                                                                                     | A = 250 to 750 x B = 700 to 1200                    |              |              |              | A = 290 to 800 x B = 700 to 1200                    |              |               |               |
|                                                                                     | KSA250DLF43F                                        | KSA250DLF43F | KSA250DLF43F | KSA400DLF43F | KSA630DLF43F                                        | KSA630DLF43F | KSA1000DLF43F | KSA1000DLF43F |
|  | A = 200 to 750 x B = 200 to 750 - Angle 95° to 175° |              |              |              | A = 290 to 800 x B = 290 to 800 - Angle 95° to 175° |              |               |               |
|                                                                                     | KSA250DLC43B                                        | KSA250DLC43B | KSA250DLC43B | KSA400DLC43B | KSA630DLC43B                                        | KSA630DLC43B | KSA1000DLC43B | KSA1000DLC43B |
|                                                                                     | A = 250 to 750 x B = 200 to 750 - Angle 95° to 175° |              |              |              | A = 290 to 800 x B = 290 to 800 - Angle 95° to 175° |              |               |               |
|                                                                                     | KSA250DLE43B                                        | KSA250DLE43B | KSA250DLE43B | KSA400DLE43B | KSA630DLE43B                                        | KSA630DLE43B | KSA1000DLE43B | KSA1000DLE43B |
|  | A = 250 to 750 x B = 200 to 750 - Angle 95° to 175° |              |              |              | A = 290 to 800 x B = 290 to 800 - Angle 95° to 175° |              |               |               |
|                                                                                     | KSA250DLF43B                                        | KSA250DLF43B | KSA250DLF43B | KSA400DLF43B | KSA630DLF43B                                        | KSA630DLF43B | KSA1000DLF43B | KSA1000DLF43B |
|                                                                                     | A = 250 to 750 x B = 200 to 750 - Angle 95° to 175° |              |              |              | A = 290 to 800 x B = 290 to 800 - Angle 95° to 175° |              |               |               |
|                                                                                     | KSA250DLF43B                                        | KSA250DLF43B | KSA250DLF43B | KSA400DLF43B | KSA630DLF43B                                        | KSA630DLF43B | KSA1000DLF43B | KSA1000DLF43B |

"KS.....": Reference specifically adapted to the rating of the busbar trunking

"KS.....": Compatible reference with the rating of the busbar trunking

## Offer overview

## Busbar ratings (A)

|                                                                                     | 100                                                                                                                                                                                                   | 160           | 250           | 400           | 500                                                                                                                                                                                                   | 630           | 800            | 1000           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------------|
| <b>Change direction elements (cont.)</b>                                            |                                                                                                                                                                                                       |               |               |               |                                                                                                                                                                                                       |               |                |                |
| <b>Zeds - 3L+N+PE - 2 Turns at 90°</b>                                              |                                                                                                                                                                                                       |               |               |               |                                                                                                                                                                                                       |               |                |                |
|    | $A = 200 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DZCG41A                                                                                                                            | KSA250DZCG41A | KSA250DZCG41A | KSA400DZCG41A | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DZCG41A                                                                                                                            | KSA630DZCG41A | KSA1000DZCG41A | KSA1000DZCG41A |
|                                                                                     | $A = (200 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DZCG43A                                                                                        | KSA250DZCG43A | KSA250DZCG43A | KSA400DZCG43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DZCG43A                                                                                        | KSA630DZCG43A | KSA1000DZCG43A | KSA1000DZCG43A |
|    | $A = 200 \times B = (700 \text{ to } 1200) \times C = 200$<br>KSA250DZCG41F                                                                                                                           | KSA250DZCG41F | KSA250DZCG41F | KSA400DZCG41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DZCG41F                                                                                                                           | KSA630DZCG41F | KSA1000DZCG41F | KSA1000DZCG41F |
|                                                                                     | $A = (200 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DZCG43F | KSA250DZCG43F | KSA250DZCG43F | KSA400DZCG43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DZCG43F | KSA630DZCG43F | KSA1000DZCG43F | KSA1000DZCG43F |
|    | $A = 200 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DZCH41A                                                                                                                            | KSA250DZCH41A | KSA250DZCH41A | KSA400DZCH41A | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DZCH41A                                                                                                                            | KSA630DZCH41A | KSA1000DZCH41A | KSA1000DZCH41A |
|                                                                                     | $A = (200 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DZCH43A                                                                                        | KSA250DZCH43A | KSA250DZCH43A | KSA400DZCH43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DZCH43A                                                                                        | KSA630DZCH43A | KSA1000DZCH43A | KSA1000DZCH43A |
|    | $A = 200 \times B = (700 \text{ to } 1200) \times C = 200$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DZCH41F                                    | KSA250DZCH41F | KSA250DZCH41F | KSA400DZCH41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DZCH41F                                    | KSA630DZCH41F | KSA1000DZCH41F | KSA1000DZCH41F |
|                                                                                     | $A = (200 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DZCH43F                                                                                        | KSA250DZCH43F | KSA250DZCH43F | KSA400DZCH43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DZCH43F                                                                                        | KSA630DZCH43F | KSA1000DZCH43F | KSA1000DZCH43F |
|    | $A = 250 \times B = (200 \text{ to } 750) \times C = 250$<br>KSA250DZE41A                                                                                                                             | KSA250DZE41A  | KSA250DZE41A  | KSA400DZE41A  | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DZE41A                                                                                                                             | KSA630DZE41A  | KSA1000DZE41A  | KSA1000DZE41A  |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (250 \text{ to } 750)$<br>KSA250DZE43A                                                                                         | KSA250DZE43A  | KSA250DZE43A  | KSA400DZE43A  | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DZE43A                                                                                         | KSA630DZE43A  | KSA1000DZE43A  | KSA1000DZE43A  |
|    | $A = 250 \times B = (700 \text{ to } 1200) \times C = 250$<br>KSA250DZE41F                                                                                                                            | KSA250DZE41F  | KSA250DZE41F  | KSA400DZE41F  | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DZE41F                                                                                                                            | KSA630DZE41F  | KSA1000DZE41F  | KSA1000DZE41F  |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (250 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DZE43F  | KSA250DZE43F  | KSA250DZE43F  | KSA400DZE43F  | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DZE43F  | KSA630DZE43F  | KSA1000DZE43F  | KSA1000DZE43F  |
| <b>Multiples - 3L+N+PE - 2 Turns at 90°</b>                                         |                                                                                                                                                                                                       |               |               |               |                                                                                                                                                                                                       |               |                |                |
|  | $A = 250 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DMBL41A                                                                                                                            | KSA250DMBL41A | KSA250DMBL41A | KSA400DMBL41A | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DMBL41A                                                                                                                            | KSA630DMBL41A | KSA1000DMBL41A | KSA1000DMBL41A |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DMBL43A                                                                                        | KSA250DMBL43A | KSA250DMBL43A | KSA400DMBL43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DMBL43A                                                                                        | KSA630DMBL43A | KSA1000DMBL43A | KSA1000DMBL43A |
|  | $A = 250 \times B = (700 \text{ to } 1200) \times C = 200$<br>KSA250DMBL41F                                                                                                                           | KSA250DMBL41F | KSA250DMBL41F | KSA400DMBL41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DMBL41F                                                                                                                           | KSA630DMBL41F | KSA1000DMBL41F | KSA1000DMBL41F |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DMBL43F | KSA250DMBL43F | KSA250DMBL43F | KSA400DMBL43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DMBL43F | KSA630DMBL43F | KSA1000DMBL43F | KSA1000DMBL43F |
|  | $A = 250 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DMCL41A                                                                                                                            | KSA250DMCL41A | KSA250DMCL41A | KSA400DMCL41A | $A = 290 \times B = (200 \text{ to } 750) \times C = 290$<br>KSA630DMCL41A                                                                                                                            | KSA630DMCL41A | KSA1000DMCL41A | KSA1000DMCL41A |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DMCL43A                                                                                        | KSA250DMCL43A | KSA250DMCL43A | KSA400DMCL43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DMCL43A                                                                                        | KSA630DMCL43A | KSA1000DMCL43A | KSA1000DMCL43A |
|  | $A = 250 \times B = (700 \text{ to } 1200) \times C = 200$<br>KSA250DMCL41F                                                                                                                           | KSA250DMCL41F | KSA250DMCL41F | KSA400DMCL41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DMCL41F                                                                                                                           | KSA630DMCL41F | KSA1000DMCL41F | KSA1000DMCL41F |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DMCL43F | KSA250DMCL43F | KSA250DMCL43F | KSA400DMCL43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DMCL43F | KSA630DMCL43F | KSA1000DMCL43F | KSA1000DMCL43F |
|  | $A = 250 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DMBK41A                                                                                                                            | KSA250DMBK41A | KSA250DMBK41A | KSA400DMBK41A | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DMBK41A                                                                                                                            | KSA630DMBK41A | KSA1000DMBK41A | KSA1000DMBK41A |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DMBK43A                                                                                        | KSA250DMBK43A | KSA250DMBK43A | KSA400DMBK43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DMBK43A                                                                                        | KSA630DMBK43A | KSA1000DMBK43A | KSA1000DMBK43A |
|  | $A = 250 \times B = (700 \text{ to } 1200) \times C = 200$<br>KSA250DMBK41F                                                                                                                           | KSA250DMBK41F | KSA250DMBK41F | KSA400DMBK41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DMBK41F                                                                                                                           | KSA630DMBK41F | KSA1000DMBK41F | KSA1000DMBK41F |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DMBK43F | KSA250DMBK43F | KSA250DMBK43F | KSA400DMBK43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DMBK43F | KSA630DMBK43F | KSA1000DMBK43F | KSA1000DMBK43F |
|  | $A = 250 \times B = (200 \text{ to } 750) \times C = 200$<br>KSA250DMCK41A                                                                                                                            | KSA250DMCK41A | KSA250DMCK41A | KSA400DMCK41A | $A = 290 \times B = (200 \text{ to } 800) \times C = 290$<br>KSA630DMCK41A                                                                                                                            | KSA630DMCK41A | KSA1000DMCK41A | KSA1000DMCK41A |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$<br>KSA250DMCK43A                                                                                        | KSA250DMCK43A | KSA250DMCK43A | KSA400DMCK43A | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$<br>KSA630DMCK43A                                                                                        | KSA630DMCK43A | KSA1000DMCK43A | KSA1000DMCK43A |
|  | $A = 250 \times B = (700 \text{ to } 1200) \times C = 200$<br>KSA250DMCK41F                                                                                                                           | KSA250DMCK41F | KSA250DMCK41F | KSA400DMCK41F | $A = 290 \times B = (700 \text{ to } 1200) \times C = 290$<br>KSA630DMCK41F                                                                                                                           | KSA630DMCK41F | KSA1000DMCK41F | KSA1000DMCK41F |
|                                                                                     | $A = (250 \text{ to } 750) \times B = (200 \text{ to } 750) \times C = (200 \text{ to } 750)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA250DMCK43F | KSA250DMCK43F | KSA250DMCK43F | KSA400DMCK43F | $A = (290 \text{ to } 800) \times B = (200 \text{ to } 800) \times C = (290 \text{ to } 800)$ for branches without fire barrier and 700 to 1200 for the branch with the fire barrier<br>KSA630DMCK43F | KSA630DMCK43F | KSA1000DMCK43F | KSA1000DMCK43F |
| <b>Tees &amp; Crosses</b>                                                           |                                                                                                                                                                                                       |               |               |               |                                                                                                                                                                                                       |               |                |                |
|  | To connect 3 lines: 3 x 165<br>KSA250DTC40                                                                                                                                                            | KSA250DTC40   | KSA250DTC40   | KSA400DTC40   | To connect 3 lines: 3 x 290<br>KSA630DTC40                                                                                                                                                            | KSA630DTC40   | KSA1000DTC40   | KSA1000DTC40   |
|                                                                                     | To connect 4 lines: 4 x 165<br>KSA250DXC40                                                                                                                                                            | KSA250DXC40   | KSA250DXC40   | KSA400DXC40   | To connect 4 lines: 4 x 290<br>KSA630DXC40                                                                                                                                                            | KSA630DXC40   | KSA1000DXC40   | KSA1000DXC40   |

## Offer overview

## Busbar ratings (A)

| Rating                                                                                       | Polarity | 100     | 160                      | 250 | 400 | 500                      | 630 | 800 | 1000 |
|----------------------------------------------------------------------------------------------|----------|---------|--------------------------|-----|-----|--------------------------|-----|-----|------|
| Connectors & Tap-off units*                                                                  |          |         |                          |     |     |                          |     |     |      |
| Disconnection by opening the door                                                            |          |         |                          |     |     |                          |     |     |      |
| Delivered equipped with a fuse holder                                                        |          |         |                          |     |     |                          |     |     |      |
| For blade-type fuses                                                                         | 630 A    | 3L+N+PE | -                        |     |     | KSB630SE4                |     |     |      |
|                                                                                              |          | 3L+PEN  | -                        |     |     | KSB630SE5                |     |     |      |
| Delivered with an Isolator, without protection or mouting plate                              |          |         |                          |     |     |                          |     |     |      |
| To be customized                                                                             | 50 A     | 3L+N+PE | KSB50SV4                 |     |     | KSB50SV4                 |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB50SV5                 |     |     | KSB50SV5                 |     |     |      |
|                                                                                              | 100 A    | 3L+N+PE | KSB100SV4                |     |     | KSB100SV4                |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB100SV5                |     |     | KSB100SV5                |     |     |      |
|                                                                                              | 160 A    | 3L+N+PE | KSB160SV4                |     |     | KSB160SV4                |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB160SV5                |     |     | KSB160SV5                |     |     |      |
| Switching with a rotary handle located on the door                                           |          |         |                          |     |     |                          |     |     |      |
| Delivered equipped with a mounting plate for 1 circuit breaker + Space provider for CT block |          |         |                          |     |     |                          |     |     |      |
| For NSX circuit breaker + CT block                                                           | 250 A    | 3L+N+PE | KSB250DC4TRE             |     |     | KSB250DC4TRE             |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB250DC5TRE             |     |     | KSB250DC5TRE             |     |     |      |
|                                                                                              | 400 A    | 3L+N+PE | -                        |     |     | KSB400DC4TRE             |     |     |      |
|                                                                                              |          | 3L+PEN  | -                        |     |     | KSB400DC5TRE             |     |     |      |
| Delivered equipped with a plug-in base for 1 circuit breaker                                 |          |         |                          |     |     |                          |     |     |      |
| For NSX circuit breaker PLUG-IN                                                              | 160 A    | 3L+N+PE | KSB160DD411              |     |     | KSB160DD411              |     |     |      |
|                                                                                              | 400 A    | 3L+N+PE | -                        |     |     | KSB400DD411              |     |     |      |
| Delivered equipped with a mounting plate for 1 fuse switch-disconnector                      |          |         |                          |     |     |                          |     |     |      |
| For Fupact INF                                                                               | 160 A    | 3L+N+PE | KSB160SDF4               |     |     | KSB160SDF4               |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB160SDF5               |     |     | KSB160SDF5               |     |     |      |
|                                                                                              | 250 A    | 3L+N+PE | KSB250SDF4               |     |     | KSB250SDF4               |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB250SDF5               |     |     | KSB250SDF5               |     |     |      |
|                                                                                              | 400 A    | 3L+N+PE | -                        |     |     | KSB400SDF4               |     |     |      |
|                                                                                              |          | 3L+PEN  | -                        |     |     | KSB400SDF5               |     |     |      |
| Disconnection by opening the fuse-switch disconnector                                        |          |         |                          |     |     |                          |     |     |      |
| Delivered equipped with a fuse-switch disconnector Fupact ISFT                               |          |         |                          |     |     |                          |     |     |      |
| For fuses DIN - NH00                                                                         | 125 A    | 3L+PEN  | KSB125HD5 / KSB125HD502  |     |     | KSB125HD5 / KSB125HD502  |     |     |      |
| For fuses DIN - NH1                                                                          | 250 A    | 3L+PEN  | KSA25HD502 / KSB250HD502 |     |     | KSA25HD502 / KSB250HD502 |     |     |      |
| For fuses DIN - NH2                                                                          | 400 A    | 3L+PEN  | -                        |     |     | KSA40HD502 / KSB400HD502 |     |     |      |
| Switching with an electrical handle                                                          |          |         |                          |     |     |                          |     |     |      |
| Delivered equipped with a mounting plate for 1 circuit breaker                               |          |         |                          |     |     |                          |     |     |      |
| For NSX circuit breaker with electrical handle                                               | 160 A    | 3L+N+PE | KSB160DB412              |     |     | KSB160DB412              |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB160DB512              |     |     | KSB160DB512              |     |     |      |
|                                                                                              | 250 A    | 3L+N+PE | KSB250DB412              |     |     | KSB250DB412              |     |     |      |
|                                                                                              |          | 3L+PEN  | KSB250DB512              |     |     | KSB250DB512              |     |     |      |
|                                                                                              | 400 A    | 3L+N+PE | -                        |     |     | KSB400DB412              |     |     |      |
|                                                                                              |          | 3L+PEN  | -                        |     |     | KSB400DB512              |     |     |      |
| Tap-off units equipped with a surge arrester                                                 |          |         |                          |     |     |                          |     |     |      |
| Delivered equipped with a surge arrester                                                     |          |         |                          |     |     |                          |     |     |      |
| For line protection against surge                                                            | 40 kA    | 3L+N+PE | KSBQPRD                  |     |     | KSBQPRD                  |     |     |      |

E

## Spare parts

|                                           |           |               |               |               |             |             |             |             |
|-------------------------------------------|-----------|---------------|---------------|---------------|-------------|-------------|-------------|-------------|
| <b>Accessories</b>                        |           |               |               |               |             |             |             |             |
| ZFL21 cable plate for tap-off units       | -         | KSB160SFZFL21 | KSB250DCZFL21 | KSB400DCZFL21 | -           | -           | -           | -           |
| Accessories for metering devices          | KSB63PMP  | KSB63PMP      | KSB63PMP      | KSB63PMP      | KSB63PMP    | KSB63PMP    | KSB63PMP    | KSB63PMP    |
|                                           | KSB63EGP  | KSB63EGP      | KSB63EGP      | KSB63EGP      | KSB63EGP    | KSB63EGP    | KSB63EGP    | KSB63EGP    |
| <b>IP kits</b>                            |           |               |               |               |             |             |             |             |
| Former end covers                         | KSB25FA3  | KSB25FA3      | KSB25FA3      | KSB50FA2      | KSB50FA2    | KSB80FA2    | KSB80FA2    | KSB80FA2    |
| Former KS IP54 blanking plate for outlets | KSE80YB2  | KSE80YB2      | KSE80YB2      | KSE80YB2      | KSE80YB2    | KSE80YB2    | KSE80YB2    | KSE80YB2    |
| Sprinkler accessory IP54                  | -         | -             | -             | KSE50YA2      | KSE50YA2    | -           | -           | -           |
| <b>Joint blocks - Adapters</b>            |           |               |               |               |             |             |             |             |
| From former KS to current KS              | KSA250FA4 | KSA250FA4     | KSA250FA4     | KSA400FA4     | KSA500FA4   | KSA500FA4   | KSA800FA4   | KSA800FA4   |
| From KS 400 to KS 500/1000 A              | -         | -             | -             | KSA500FR425   | KSA500FR425 | KSA500FR425 | KSA500FR425 | KSA500FR425 |
| for KS 100 to 250A                        | KSB25YA4  | KSB25YA4      | KSB25YA4      | -             | -           | -           | -           | -           |

\* See compatibility page for mounting limitations

"KS.....": Reference specifically adapted to the rating of the busbar trunking

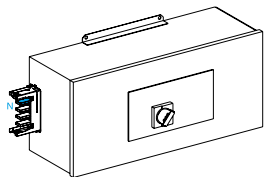
"KS.....": Compatible reference with the rating of the busbar trunking

## Advanced offer

## Feed units

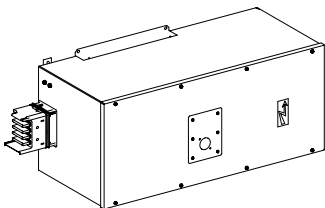
## Right mounting

DB410485



KSA250 and 400 ABDD

DD230173



KSA630 and 1000 ABDD

**Mounted on the busway**  
**For line protection with a NSX (not delivered)**

| Cat. n°         | KSA250ABDD4   | KSA400ABDD4 | KSA630ABDD4    | KSA1000ABDD4   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |

|                                |                |                |                |        |
|--------------------------------|----------------|----------------|----------------|--------|
| <b>Cabling</b>                 |                |                |                |        |
| Protection Type (Not Supplied) | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |

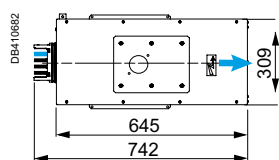
|                          |                             |                             |                             |                             |
|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type               | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
| Available Area (mm)      | 240 x 220                   | 280 x 220                   | 386 x 330                   | 386 x 410                   |
| Maximum Cable size (mm²) | 4 x 240                     | 4 x 300 or 8 x 120          | 4 x 300 or 8 x 240          | 12 x 300                    |
| Connection               | On NSX terminals            | On NSX terminals            | On NSX terminals            | On NS terminals             |

|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

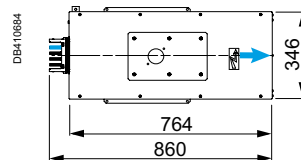
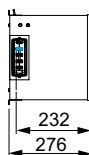
|  |                                            |                                            |                                            |                                       |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle<br>LV429338 | NSX400: Extended rotary handle<br>LV432598 | NSX630: Extended rotary handle<br>LV432598 | NS 1000: Extended rotary handle 33878 |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|

|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| <b>Additional Characteristics</b> |       |       |       |       |
| IP                                | IP55  | IP55  | IP55  | IP55  |
| Color                             | White | White | White | White |
| Weight (kg)                       | 17,1  | 22,2  | 39,2  | 52    |
| Selling Unit                      | 1     | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 1     | 1     |

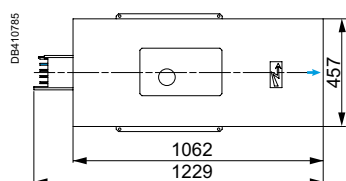
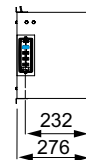
Supplied with an End cover



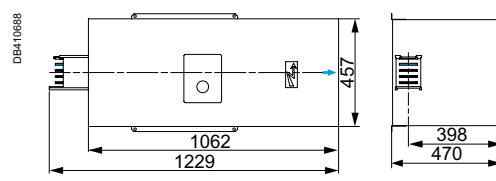
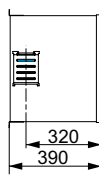
KSA250ABDD4



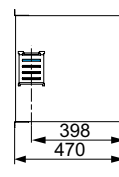
KSA400ABDD4



KSA630ABDD4



KSA1000ABDD4

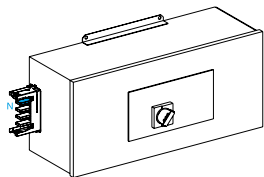


# Advanced offer

## Feed units

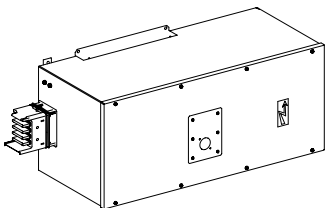
### Right mounting

DB410485



KSA250 and 400 ABDD

DD230173



KSA630 and 1000 ABDD

#### Mounted on the busway For line protection with a NSX (not delivered)

| Cat. n°         | KSA250ABDD5   | KSA400ABDD5 | KSA630ABDD5    | KSA1000ABDD5   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |          |          |          |          |
|---------------|----------|----------|----------|----------|
| Rating (A)    | 250      | 400      | 630      | 1000     |
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |          |

#### Cabling

|                                |                |                |                |        |
|--------------------------------|----------------|----------------|----------------|--------|
| Protection Type (Not Supplied) | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |
|--------------------------------|----------------|----------------|----------------|--------|

|            |                             |                             |                             |                             |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                     |           |           |           |           |
|---------------------|-----------|-----------|-----------|-----------|
| Available Area (mm) | 240 x 220 | 280 x 220 | 386 x 330 | 386 x 410 |
|---------------------|-----------|-----------|-----------|-----------|

|                          |         |                    |                    |          |
|--------------------------|---------|--------------------|--------------------|----------|
| Maximum Cable size (mm²) | 4 x 240 | 4 x 300 or 8 x 120 | 4 x 300 or 8 x 240 | 12 x 300 |
|--------------------------|---------|--------------------|--------------------|----------|

|            |                  |                  |                  |                 |
|------------|------------------|------------------|------------------|-----------------|
| Connection | On NSX terminals | On NSX terminals | On NSX terminals | On NS terminals |
|------------|------------------|------------------|------------------|-----------------|

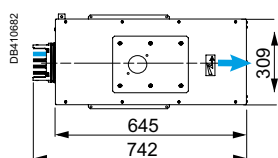
|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

|  |                                            |                                            |                                            |                                       |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle<br>LV429338 | NSX400: Extended rotary handle<br>LV432598 | NSX630: Extended rotary handle<br>LV432598 | NS 1000: Extended rotary handle 33878 |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|

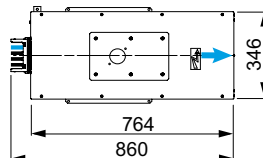
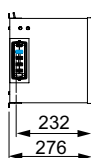
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 17,3  | 22,6  | 39,9  | 53,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

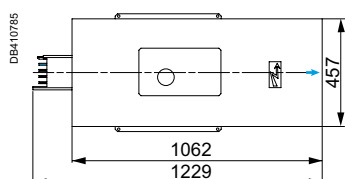
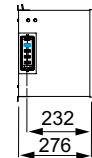
Supplied with an End cover



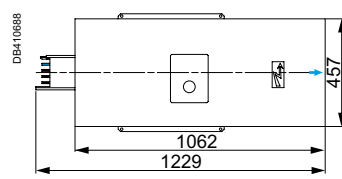
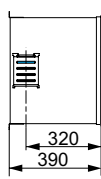
KSA250ABDD5



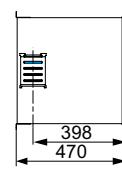
KSA400ABDD5



KSA630ABDD5



KSA1000ABDD5

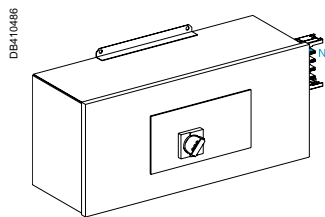




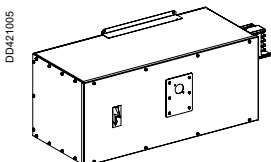
## Advanced offer

## Feed units

## Left mounting



KSA250 and 400 ABGD



KSA630 and 1000 ABGD

**Mounted on the busway**  
**For line protection with a NSX (not delivered)**

| Cat. n°         | KSA250ABGD4   | KSA400ABGD4 | KSA630ABGD4    | KSA1000ABGD4   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |

| Cabling         |                |                |                |        |
|-----------------|----------------|----------------|----------------|--------|
| Protection Type | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |
| (Not Supplied)  |                |                |                |        |

|            |                             |                             |                             |                             |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                     |           |           |           |           |
|---------------------|-----------|-----------|-----------|-----------|
| Available Area (mm) | 240 x 220 | 280 x 220 | 386 x 330 | 386 x 410 |
|---------------------|-----------|-----------|-----------|-----------|

|                                       |         |                    |                    |          |
|---------------------------------------|---------|--------------------|--------------------|----------|
| Maximum Cable size (mm <sup>2</sup> ) | 4 x 240 | 4 x 300 or 8 x 120 | 4 x 300 or 8 x 240 | 12 x 300 |
|---------------------------------------|---------|--------------------|--------------------|----------|

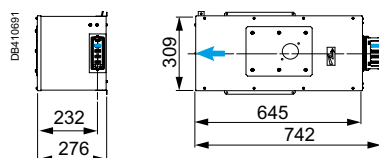
|            |                  |                  |                  |                 |
|------------|------------------|------------------|------------------|-----------------|
| Connection | On NSX terminals | On NSX terminals | On NSX terminals | On NS terminals |
|------------|------------------|------------------|------------------|-----------------|

|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

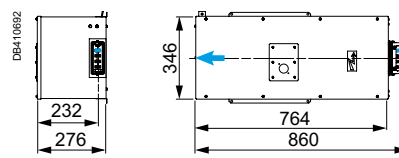
|  |                                            |                                            |                                            |                                       |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle<br>LV429338 | NSX400: Extended rotary handle<br>LV432598 | NSX630: Extended rotary handle<br>LV432598 | NS 1000: Extended rotary handle 33878 |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 17,3  | 22,7  | 39,2  | 54    |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

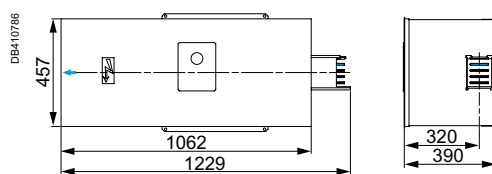
Supplied with an End cover



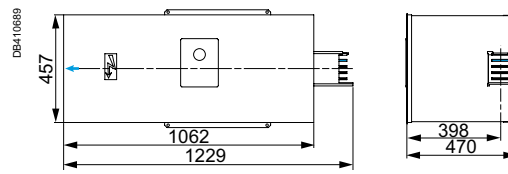
KSA250ABGD4



KSA400ABGD4



KSA630ABGD4

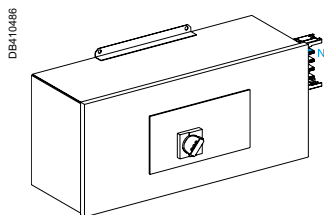


KSA1000ABGD4

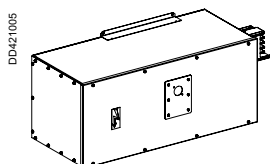
## Advanced offer

## Feed units

## Left mounting



KSA250 and 400 ABGD



KSA630 and 1000 ABGD

**Mounted on the busway**  
**For line protection with a NSX (not delivered)**

| Cat. n°         | KSA250ABGD5   | KSA400ABGD5 | KSA630ABGD5    | KSA1000ABGD5   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |          |          |          |          |
|---------------|----------|----------|----------|----------|
| Rating (A)    | 250      | 400      | 630      | 1000     |
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |          |

**Cabling**

|                                |                |                |                |        |
|--------------------------------|----------------|----------------|----------------|--------|
| Protection Type (Not Supplied) | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |
|--------------------------------|----------------|----------------|----------------|--------|

|            |                             |                             |                             |                             |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                     |           |           |           |           |
|---------------------|-----------|-----------|-----------|-----------|
| Available Area (mm) | 240 x 220 | 280 x 220 | 386 x 330 | 386 x 410 |
|---------------------|-----------|-----------|-----------|-----------|

|                          |         |                    |                    |          |
|--------------------------|---------|--------------------|--------------------|----------|
| Maximum Cable size (mm²) | 4 x 240 | 4 x 300 or 8 x 120 | 4 x 300 or 8 x 240 | 12 x 300 |
|--------------------------|---------|--------------------|--------------------|----------|

|            |                  |                  |                  |                 |
|------------|------------------|------------------|------------------|-----------------|
| Connection | On NSX terminals | On NSX terminals | On NSX terminals | On NS terminals |
|------------|------------------|------------------|------------------|-----------------|

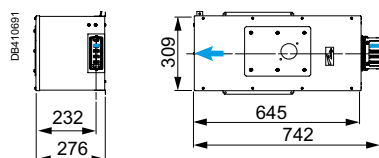
|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

|  |                                         |                                         |                                         |                                       |
|--|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle LV429338 | NSX400: Extended rotary handle LV432598 | NSX630: Extended rotary handle LV432598 | NS 1000: Extended rotary handle 33878 |
|--|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|

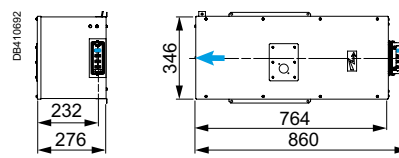
**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 17,3  | 22,6  | 39,9  | 56,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

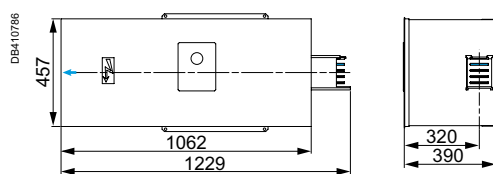
Supplied with an End cover



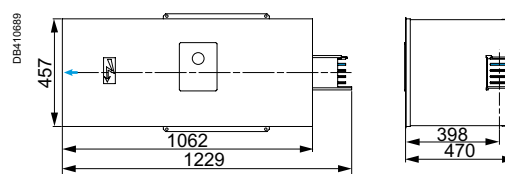
KSA250ABGD5



KSA400ABGD5



KSA630ABGD5

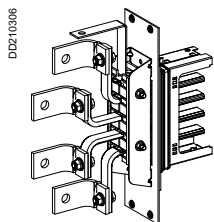


KSA1000ABGD5

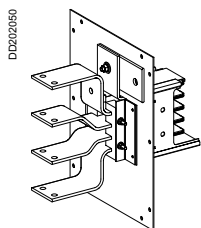
## Advanced offer

## Feed units

## Flange units



KSA250 and KSA400 AE



KSA630 and 1000 AE

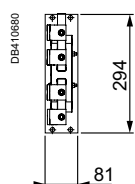
Mounted on the switchboard  
Without line protection

| Cat. n°                               | KSA250AE4                                                          | KSA400AE4                                                          | KSA630AE4                                                          | KSA1000AE4                                                         |
|---------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Compatible with                       | KSA100 to 250                                                      | KSA400                                                             | KSA500 to 1000                                                     | KSA500 to 1000                                                     |
| A in the line (mm)                    | 100                                                                | 100                                                                | 172                                                                | 172                                                                |
| Rating (A)                            | 250                                                                | 400                                                                | 630                                                                | 1000                                                               |
| Polarity                              | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        |
| Phase Diagram                         |                                                                    |                                                                    |                                                                    |                                                                    |
| <b>Cabling</b>                        |                                                                    |                                                                    |                                                                    |                                                                    |
| Protection Type (Not Supplied)        | None                                                               | None                                                               | None                                                               | None                                                               |
| Input Type                            | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Available Area (mm)                   | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Maximum Cable size (mm <sup>2</sup> ) | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Connection                            | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars |
| Capability Per Phase                  | 1 x Ø 13 mm (L) + 1 x Ø 9 mm (PE)                                  | 1 x Ø 13 mm (L) + 1 x Ø 9 mm (PE)                                  | 2 x Ø 11 mm (L) + 1 x Ø 14 mm (PE)                                 | 4 x Ø 11 mm (L) + 1 x Ø 14 mm (PE)                                 |
|                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       | ( <sup>1)</sup> Not included                                       |

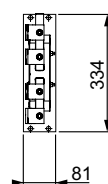
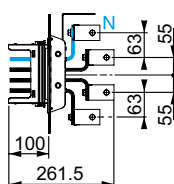
## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | -     | -     | -     | -     |
| Color        | White | White | White | White |
| Weight (kg)  | 2     | 2,1   | 10,6  | 12    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

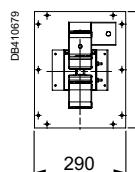
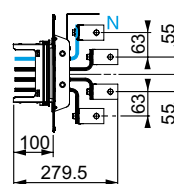
Supplied with an End cover



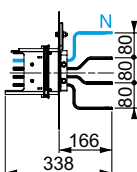
KSA250 AE



KSA400 AE



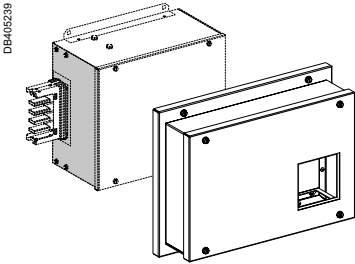
KSA630 and 1000 AE



# Advanced offer

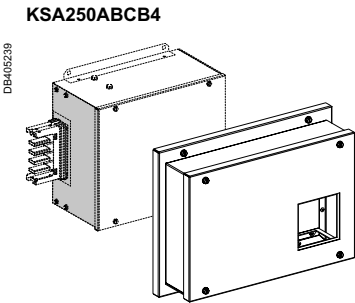
## Feed units (Accessories)

### Accessories for feed units



For Smart tap-off units  
Box for measurement devices

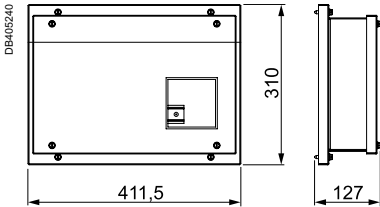
| Cat. n°         | KSA250ABCB4 | KSA400ABCB4 |
|-----------------|-------------|-------------|
| Compatible with | KSA250AB4   | KSA400AB4   |
| Rating (A)      | 250         | 400         |
| Polarity        | -           | -           |



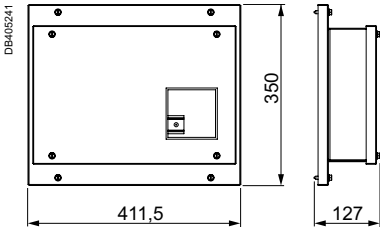
KSA400ABCB4

| Additional Characteristics |       |       |
|----------------------------|-------|-------|
| IP                         | IP55  | IP55  |
| Color                      | White | White |
| Weight (kg)                | 4,8   | 5,3   |
| Selling Unit               | 1     | 1     |
| MOQ                        | 1     | 1     |

It is designed to replace the lids of the compatible feed unit and to install measurement system PM5350 + Protection (Acti9)



KSA250ABCB4



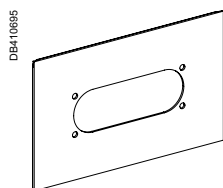
KSA400ABCB4

E

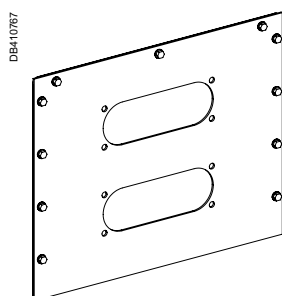
## Advanced offer

## Feed units (Accessories)

## Accessories for feed units



KSA250ABZFL21



KSA630ABZFL21

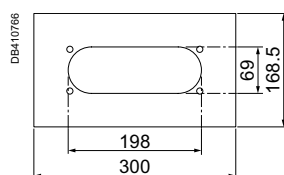
**Plate for FL21 flexible cable gland**  
**Plate for AB Feed units, compatible with FL21 flexible cable gland**

| Cat. n°         | KSA250ABZFL21 | KSA400ABZFL21 | KSA630ABZFL21 | KSA1000ABZFL21 |
|-----------------|---------------|---------------|---------------|----------------|
| Compatible with | KSA250AB4     | KSA400AB4     | KSA630AB4     | KSA1000AB4     |

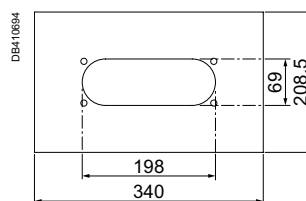
|            |     |     |     |      |
|------------|-----|-----|-----|------|
| Rating (A) | 250 | 400 | 400 | 1000 |
| Polarity   | -   | -   | -   | -    |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | -     | -     | -     | -     |
| Color                      | White | White | White | White |
| Weight (kg)                | 0,73  | 0,542 | 0,857 | 1,764 |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

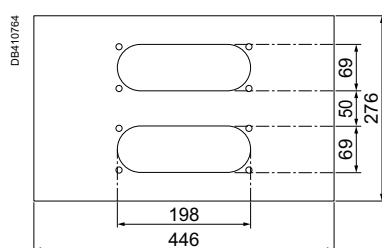
FL21 cable gland can be found on [schneider-electric.com](http://schneider-electric.com)



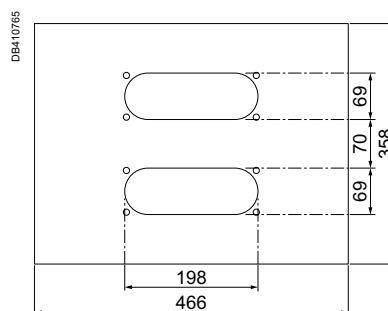
KSA250ABZFL21



KSA400ABZFL21



KSA630ABZFL21

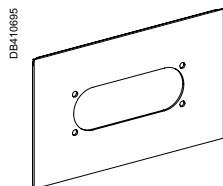


KSA1000ABZFL21

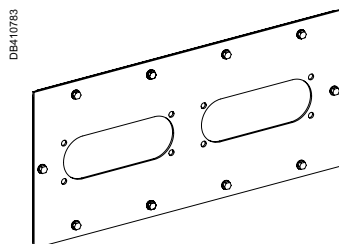
# Advanced offer

## Feed units (Accessories)

### Accessories for feed units



KSA250ABTZFL21



KSA630ABTZFL21

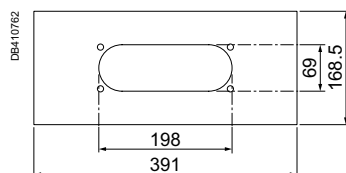
**Plate for FL21 flexible cable gland**  
**Plate for ABT Feed units, compatible with FL21 flexible cable gland**

| Cat. n°         | KSA250ABTZFL21 | KSA400ABTZFL21 | KSA630ABTZFL21 | KSA1000ABTZFL21 |
|-----------------|----------------|----------------|----------------|-----------------|
| Compatible with | KSA250ABT4     | KSA400ABT4     | KSA630ABT4     | KSA1000ABT4     |

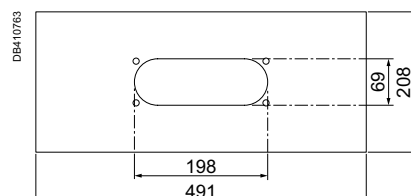
|            |     |     |     |      |
|------------|-----|-----|-----|------|
| Rating (A) | 250 | 400 | 630 | 1000 |
| Polarity   | -   | -   | -   | -    |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | -     | -     | -     | -     |
| Color                      | White | White | White | White |
| Weight (kg)                | 0,845 | 0,792 | 0,783 | 1,7   |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

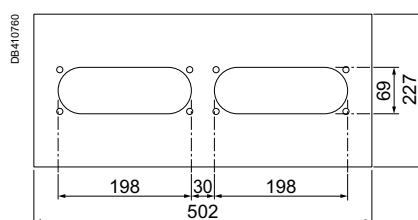
FL21 cable gland can be found on [schneider-electric.com](http://schneider-electric.com)



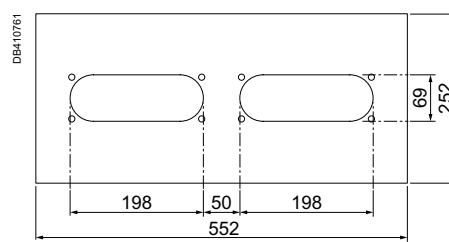
KSA250ABTZFL21



KSA250/400 ABT ZFL21



KSA630ABTZFL21



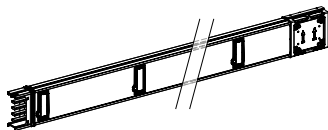
KSA1000ABTZFL21

## Advanced offer

## Straight lengths

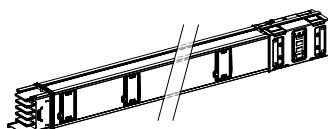
## With High density outlets - 1.5 m

DB410751



KSA100 to 400 ED •15

DB410752



KSA500 to 1000 ED •15

For Distribution  
Horizontal mounting

| Cat. n°            | KSA250ED4156  | KSA400ED4156 | KSA630ED4154   | KSA1000ED4154  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1500          | 1500         | 1500           | 1500           |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

## Characteristics

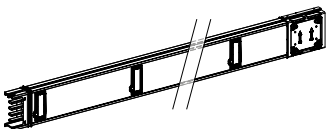
|                      |                |                |                |                |
|----------------------|----------------|----------------|----------------|----------------|
| Number               | 6              | 6              | 4              | 4              |
| Of Outlet(s)         |                |                |                |                |
| Outlet(s) Position   | 3 on each side | 3 on each side | 2 on each side | 2 on each side |
| Distance Between 500 |                | 500            | 500 or 750     | 500 or 750     |
| Outlets (mm)         |                |                |                |                |
| Fire Barrier         | No             | No             | No             | No             |
| Fire Barrier         | -              | -              | -              | -              |
| Position             |                |                |                |                |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 8,55  | 10,85 | 19    | 29,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

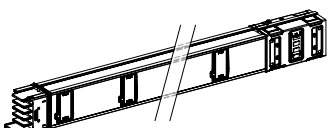
## With High density outlets - 2 m

DB410751



KSA100 to 400 ED •20

DB410752



KSA500 to 1000 ED •20

For Distribution  
Horizontal mounting

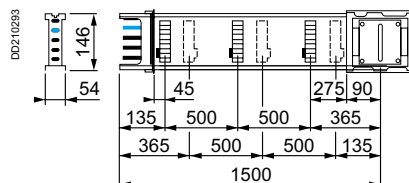
| Cat. n°            | KSA250ED4208  | KSA400ED4208 | KSA630ED4206   | KSA1000ED4206  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 2000          | 2000         | 2000           | 2000           |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

## Characteristics

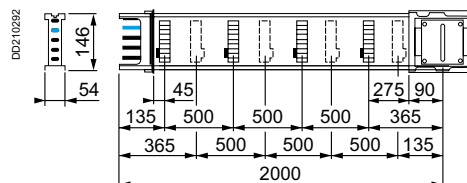
|                      |                |                |                |                |
|----------------------|----------------|----------------|----------------|----------------|
| Number               | 8              | 8              | 6              | 6              |
| Of Outlet(s)         |                |                |                |                |
| Outlet(s) Position   | 4 on each side | 4 on each side | 3 on each side | 3 on each side |
| Distance Between 500 |                | 500            | 500 or 750     | 500 or 750     |
| Outlets (mm)         |                |                |                |                |
| Fire Barrier         | No             | No             | No             | No             |
| Fire Barrier         | -              | -              | -              | -              |
| Position             |                |                |                |                |

## Additional Characteristics

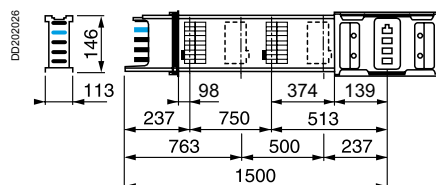
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 10,85 | 13,9  | 25,5  | 38,05 |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



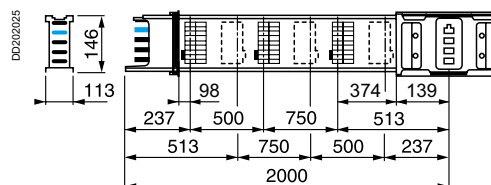
KSA100 to 400 ED •15



KSA100 to 400 ED •20



KSA500 to 1000 ED •15



KSA500 to 1000 ED •20

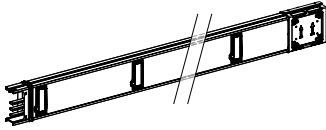


# Advanced offer

## Straight lengths

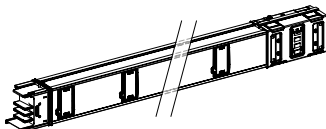
### With High density outlets - 3 m - 3L + PE

DB410780



KSA100 to 400 ED •30

DB410782



KSA500 to 1000 ED •30

#### For Distribution Horizontal mounting

| Cat. n°            | KSA250ED33012 | KSA400ED33012 | KSA500ED3306   | KSA630ED3306   | KSA800ED3306   |
|--------------------|---------------|---------------|----------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 3000          | 3000          | 3000           | 3000           | 3000           |
| Rating (A)         | 250           | 400           | 500            | 630            | 800            |
| Polarity           | 3L + PE       | 3L + PE       | 3L + PE        | 3L + PE        | 3L + PE        |

#### Characteristics

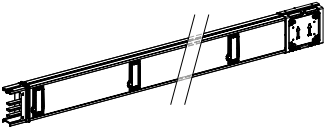
|                       |                |                |                |                |                |
|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Number                | 12             | 12             | 6              | 6              | 6              |
| Of Outlet(s)          |                |                |                |                |                |
| Outlet(s) Position    | 6 on each side | 6 on each side | 3 on each side | 3 on each side | 3 on each side |
| Distance Between 500  |                | 500            | 1000           | 1000           | 1000           |
| Outlets (mm)          |                |                |                |                |                |
| Fire Barrier          | No             | No             | No             | No             | No             |
| Fire Barrier Position | -              | -              | -              | -              | -              |

#### Additional Characteristics

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White | White |
| Weight (kg)  | 13    | 15    | 24,9  | 28,4  | 31,8  |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

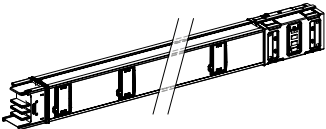
### With High density outlets - 5 m - 3L + PE

DB410780



KSA100 to 400 ED •50

DB410782



KSA500 to 1000 ED •50

#### For Distribution Horizontal mounting

| Cat. n°            | KSA250ED35020 | KSA400ED35020 | KSA500ED35010  | KSA630ED35010  | KSA800ED35010  |
|--------------------|---------------|---------------|----------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 5000          | 5000          | 5000           | 5000           | 5000           |
| Rating (A)         | 250           | 400           | 500            | 630            | 800            |
| Polarity           | 3L + PE       | 3L + PE       | 3L + PE        | 3L + PE        | 3L + PE        |

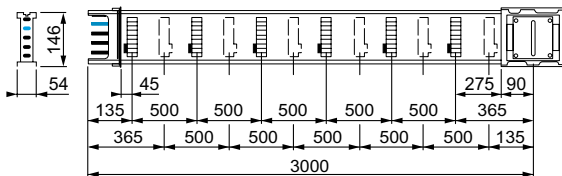
#### Characteristics

|                       |                 |                 |                |                |                |
|-----------------------|-----------------|-----------------|----------------|----------------|----------------|
| Number                | 20              | 20              | 10             | 10             | 10             |
| Of Outlet(s)          |                 |                 |                |                |                |
| Outlet(s) Position    | 10 on each side | 10 on each side | 5 on each side | 5 on each side | 5 on each side |
| Distance Between 500  |                 | 500             | 1000           | 1000           | 1000           |
| Outlets (mm)          |                 |                 |                |                |                |
| Fire Barrier          | No              | No              | No             | No             | No             |
| Fire Barrier Position | -               | -               | -              | -              | -              |

#### Additional Characteristics

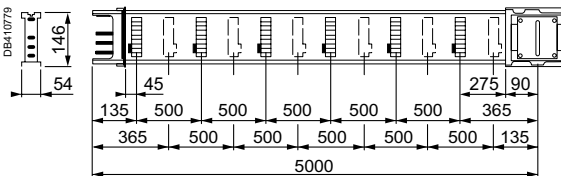
|              |       |       |        |       |       |
|--------------|-------|-------|--------|-------|-------|
| IP           | IP55  | IP55  | IP55   | IP55  | IP55  |
| Color        | White | White | White  | White | White |
| Weight (kg)  | 21    | 24    | 41,875 | 45    | 53    |
| Selling Unit | 1     | 1     | 1      | 1     | 1     |
| MOQ          | 1     | 1     | 1      | 1     | 1     |

DD236576



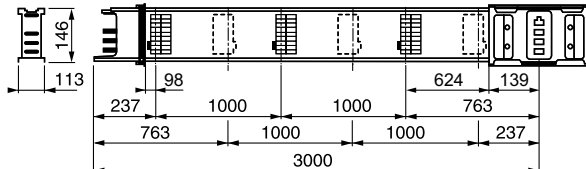
KSA100 to 400 ED •30

DB410779



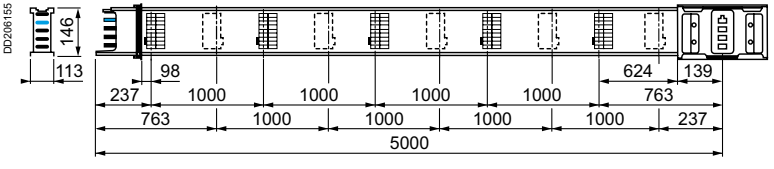
KSA100 to 400 ED •50

DB410781



KSA500 to 1000 ED •30

DD206155

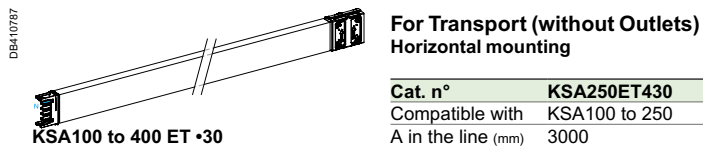


KSA500 to 1000 ED •50

## Advanced offer

## Straight lengths

## Fixed dimensions - 3 m


**For Transport (without Outlets)**  
**Horizontal mounting**

| Cat. n°            | KSA250ET430   | KSA400ET430 |
|--------------------|---------------|-------------|
| Compatible with    | KSA100 to 250 | KSA400      |
| A in the line (mm) | 3000          | 3000        |
| Rating (A)         | 250           | 400         |
| Polarity           | 3L + N + PE   | 3L + N + PE |

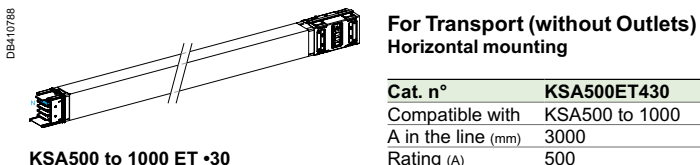
**Characteristics**

|              |    |    |
|--------------|----|----|
| Fire Barrier | No | No |
| Fire Barrier | -  | -  |
| Position     |    |    |

**Additional Characteristics**

|              |       |       |
|--------------|-------|-------|
| IP           | IP55  | IP55  |
| Color        | White | White |
| Weight (kg)  | -     | 20,4  |
| Selling Unit | 1     | 1     |
| MOQ          | 1     | 1     |

## Fixed dimensions - 3 m


**For Transport (without Outlets)**  
**Horizontal mounting**

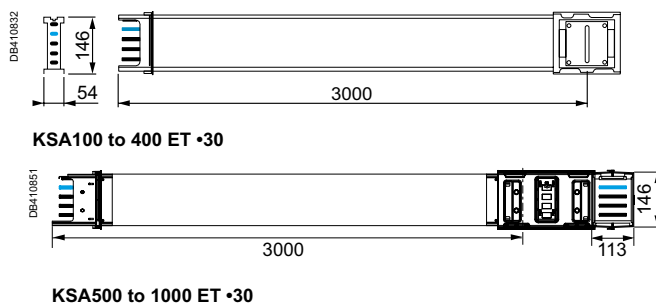
| Cat. n°            | KSA500ET430    | KSA630ET430    | KSA800ET430    | KSA1000ET430   |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 3000           | 3000           | 3000           | 3000           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

**Characteristics**

|              |    |    |    |    |
|--------------|----|----|----|----|
| Fire Barrier | No | No | No | No |
| Fire Barrier | -  | -  | -  | -  |
| Position     |    |    |    |    |

**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 34,9  | 36,4  | 43,1  | 55,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



## Advanced offer

## Straight lengths

## Fixed dimensions - 5 m



KSA100 to 400 ET •50

For Transport (without Outlets)  
Horizontal mounting

| Cat. n°            | KSA250ET450   | KSA400ET450 |
|--------------------|---------------|-------------|
| Compatible with    | KSA100 to 250 | KSA400      |
| A in the line (mm) | 5000          | 5000        |
| Rating (A)         | 250           | 400         |
| Polarity           | 3L + N + PE   | 3L + N + PE |

## Characteristics

|              |    |    |
|--------------|----|----|
| Fire Barrier | No | No |
| Fire Barrier | -  | -  |
| Position     |    |    |

## Additional Characteristics

|              |       |       |
|--------------|-------|-------|
| IP           | IP55  | IP55  |
| Color        | White | White |
| Weight (kg)  | -     | 32,85 |
| Selling Unit | 1     | 1     |
| MOQ          | 1     | 1     |

## Fixed dimensions - 5 m



KSA500 to 1000 ET •50

For Transport (without Outlets)  
Horizontal mounting

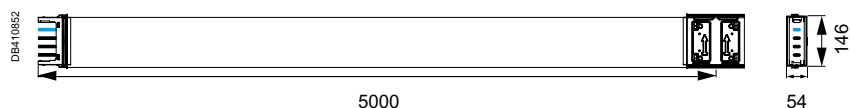
| Cat. n°            | KSA500ET450    | KSA630ET450    | KSA800ET450    | KSA1000ET450   |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 5000           | 5000           | 5000           | 5000           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

## Characteristics

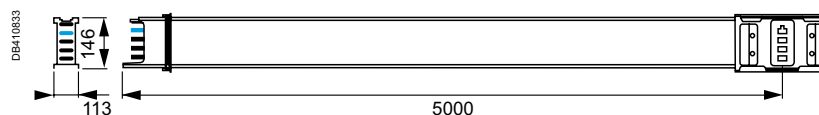
|              |    |    |    |    |
|--------------|----|----|----|----|
| Fire Barrier | No | No | No | No |
| Fire Barrier | -  | -  | -  | -  |
| Position     |    |    |    |    |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 54,5  | 58,2  | 69,2  | 89,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



KSA100 to 400 ET •50



KSA500 to 1000 ET •50

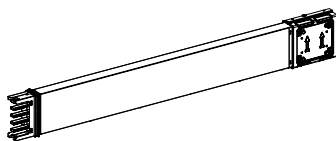
## Advanced offer

## Straight lengths

## Made-to-measure

DB410895

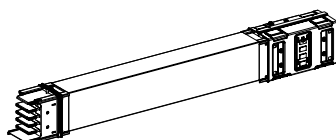
**For Transport (without Outlets)**  
**Horizontal mounting**



KSA100 to 400 ET •A

DB410896

**For Transport (without Outlets)**  
**Horizontal mounting**



KSA500 to 1000 ET •A

| Cat. n°            | KSA250ET43A   | KSA400ET43A | KSA630ET43A    | KSA1000ET43A   |
|--------------------|---------------|-------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1900   | 500 to 1900 | 500 to 1900    | 500 to 1900    |
| Rating (A)         | 250           | 400         | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

**Characteristics**

|                       |    |    |    |    |
|-----------------------|----|----|----|----|
| Fire Barrier          | No | No | No | No |
| Fire Barrier Position | -  | -  | -  | -  |

**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 8     | 10    | 30    | 32,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

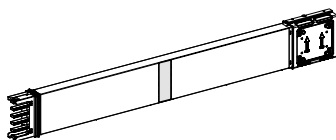
A dimension can be adjusted in increments of 5 mm. See A minimum and maximum.

To order, indicate for example: KSA400ET43A, A = 710 mm

## Made-to-measure - With 1 fire barrier

DB410897

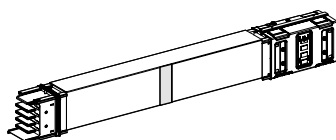
**For Transport (without Outlets)**  
**Horizontal mounting**



KSA100 to 400 ET •AF

DB410898

**For Transport (without Outlets)**  
**Horizontal mounting**



KSA500 to 1000 ET •AF

| Cat. n°            | KSA250ET43AF  | KSA400ET43AF | KSA630ET43AF   | KSA1000ET43AF  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 800 to 1900   | 800 to 1900  | 800 to 1900    | 800 to 1900    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

**Characteristics**

|                       |                              |                              |                              |                              |
|-----------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Fire Barrier          | Yes                          | Yes                          | Yes                          | Yes                          |
| Fire Barrier Position | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde |

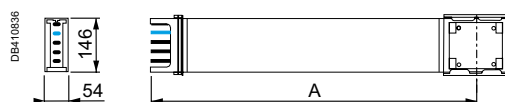
**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 8,2   | 10    | 30    | 37    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

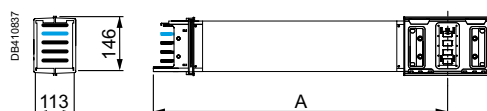
A dimension can be adjusted in increments of 5 mm. See A minimum and maximum.

Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya minimum.

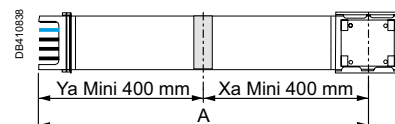
To order, indicate for example: KSA400ET43AF, A = 950 mm, Xa = 450, Ya = 500



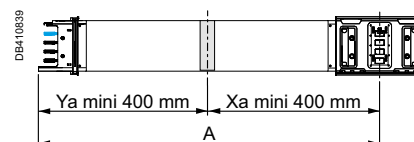
KSA100 to 400 ET •A



KSA500 to 1000 ET •A



KSA100 to 400 ET •AF



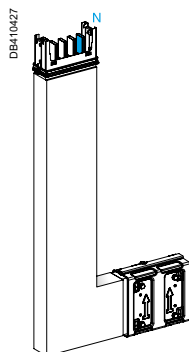
KSA500 to 1000 ET •AF



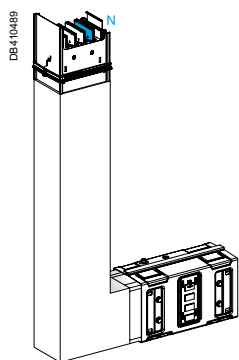
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLE 41A



KSA500 to 1000 DLE 41A

**To go Upward at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure

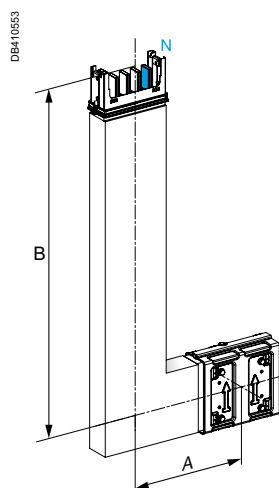
| Cat. n°            | KSA250DLE41A  | KSA400DLE41A | KSA630DLE41A   | KSA1000DLE41A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1000   | 500 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

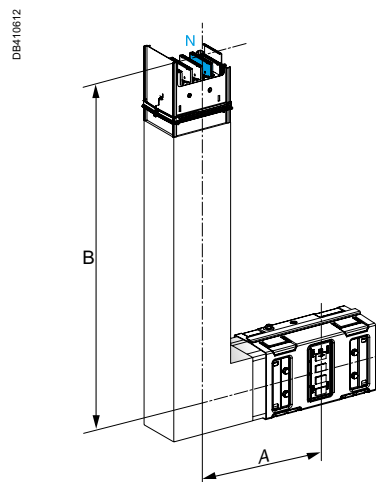
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum.

To order, indicate for example: KSA400DLE41A, B = 500



KSA100 to 400 DLE 41A

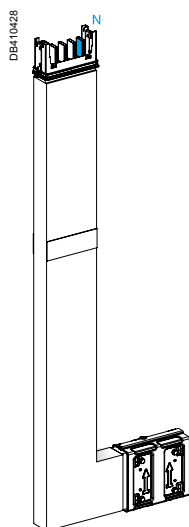


KSA500 to 1000 DLE 41A

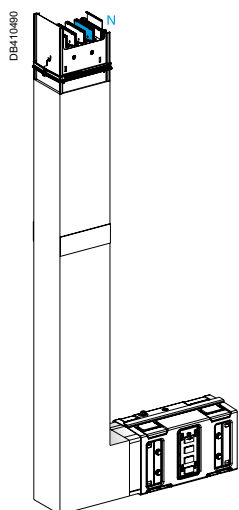
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLE 41F



KSA500 to 1000 DLE 41F

**To go Upward at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure including 1 Fire Barrier (FB)

| Cat. n°            | KSA250DLE41F  | KSA400DLE41F | KSA630DLE41F   | KSA1000DLE41F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1450   | 950 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

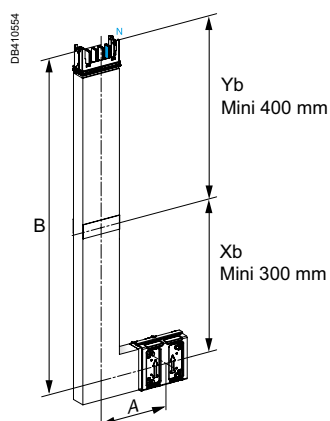
#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

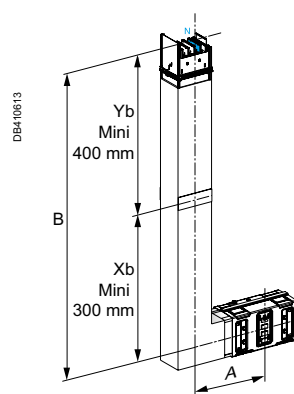
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.  
To order, indicate for example: KSA400DLE41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DLE 41F



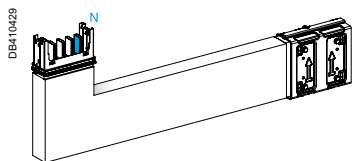
KSA500 to 1000 DLE 41F



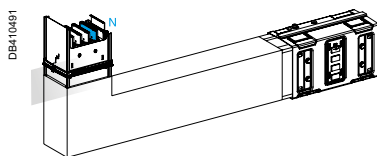
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLE 42A



KSA500 to 1000 DLE 42A

To go Upward at 90° (Edgewise position)  
Side A is made-to-measure, Side B is fixed

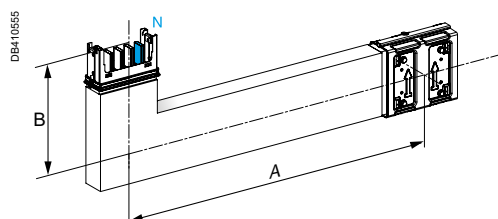
| Cat. n°            | KSA250DLE42A  | KSA400DLE42A | KSA630DLE42A   | KSA1000DLE42A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1000   | 500 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250        | 250        | 290        | 290        |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

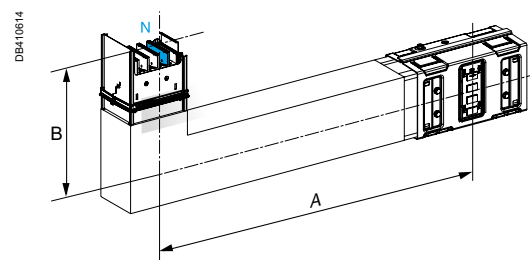
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. B dimension is fixed.

To order, indicate for example: KSA400DLE42A, A = 500



KSA100 to 400 DLE 42A

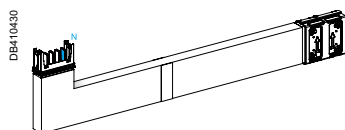


KSA500 to 1000 DLE 42A

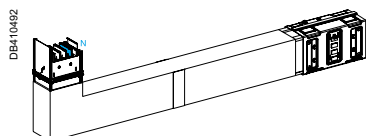
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLE 42F



KSA500 to 1000 DLE 42F

**To go Upward at 90° (Edgewise position)**  
Side A is made-to-measure including 1 Fire Barrier (FB), Side B is fixed

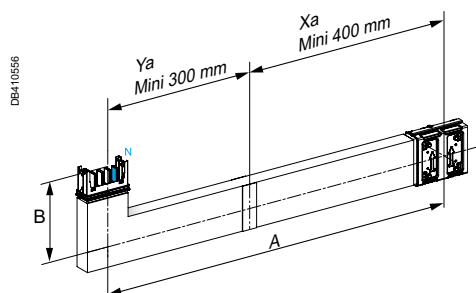
| Cat. n°            | KSA250DLE42F  | KSA400DLE42F | KSA630DLE42F   | KSA1000DLE42F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1450   | 950 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| B (mm)                | 250         | 250         | 290         | 290         |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side A   | On side A   | On side A   | On side A   |

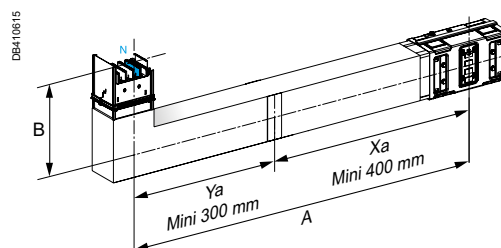
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. Fire barrier position on side A is adjustable in increments of 10 mm respecting the Xb and Yb minimum. B dimension is fixed.

To order, indicate for example: KSA400DLE42F, A = 900, Xa = 500, Ya = 400



KSA100 to 400 DLE 42F

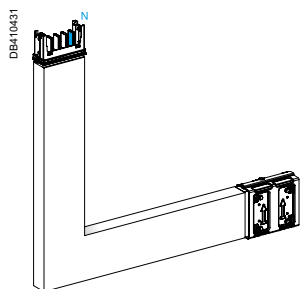


KSA500 to 1000 DLE 42F

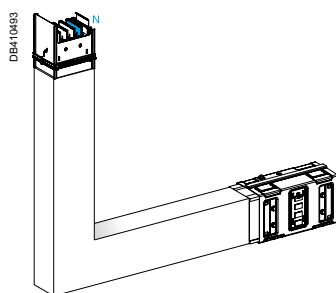
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLE 43A



KSA500 to 1000 DLE 43A

**To go Upward at 90° (Edgewise position)**  
Sides A and B are made-to-measure

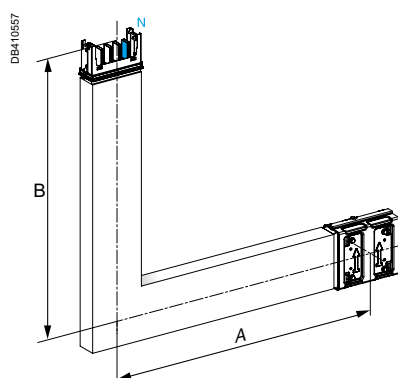
| Cat. n°            | KSA250DLE43A  | KSA400DLE43A | KSA630DLE43A   | KSA1000DLE43A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

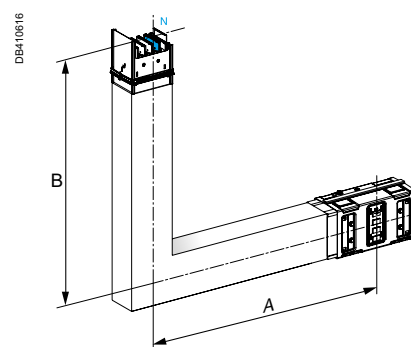
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLE43A, A = 500, B = 500



KSA100 to 400 DLE 43A

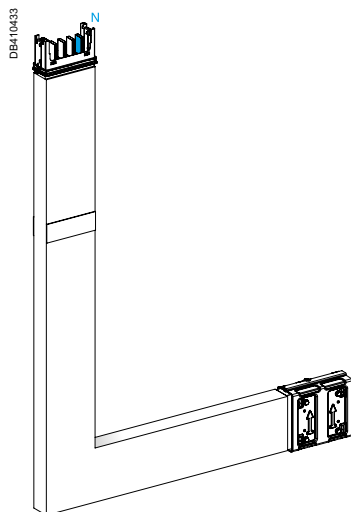


KSA500 to 1000 DLE 43A

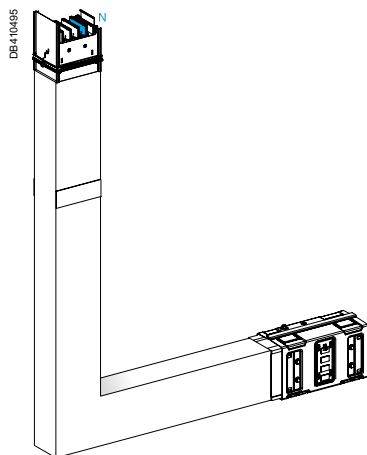
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLE 43F



KSA500 to 1000 DLE 43F

#### To go Upward at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°            | KSA250DLE43F  | KSA400DLE43F | KSA630DLE43F   | KSA1000DLE43F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1950   | 950 to 1950  | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

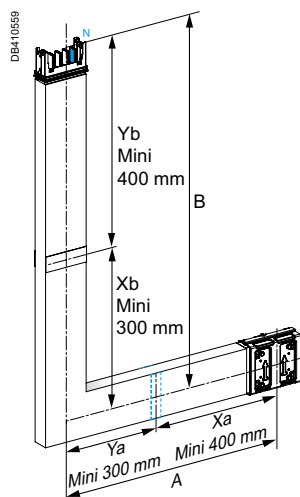
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | -                                      | -                                      | -                                      | -                                      |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  |

#### Additional Characteristics

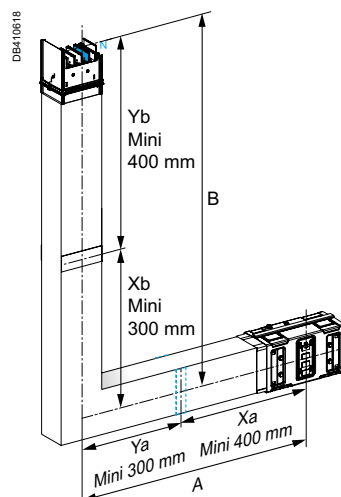
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positioned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum.

To order, indicate for example: KSA400DLE43F, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLE 43F

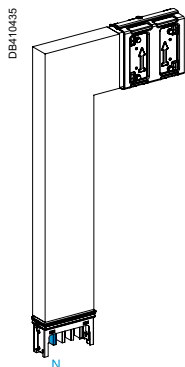


KSA500 to 1000 DLE 43F

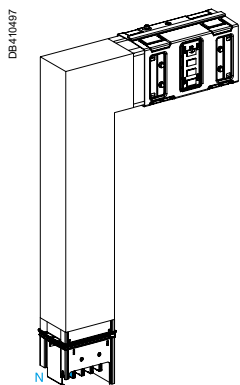
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLF 41A



KSA500 to 1000 DLF 41A

**To go Downward at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure

| Cat. n°            | KSA250DLF41A  | KSA400DLF41A | KSA630DLF41A   | KSA1000DLF41A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1000   | 500 to 1000  | 600 to 1100    | 600 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

**Dimensions**

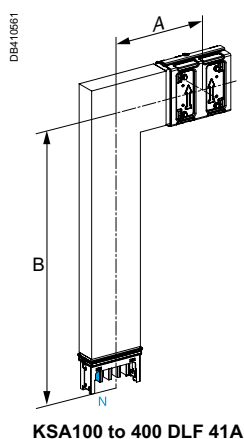
|                       |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 250 to 750 | 250 to 750 | 300 to 800 | 300 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

**Additional Characteristics**

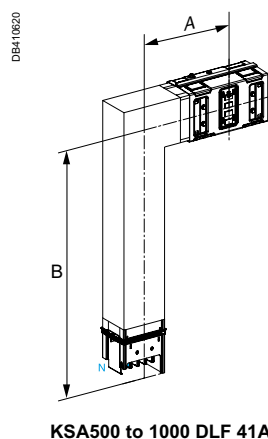
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum.

To order, indicate for example: KSA400DLF41A, B = 500



KSA100 to 400 DLF 41A

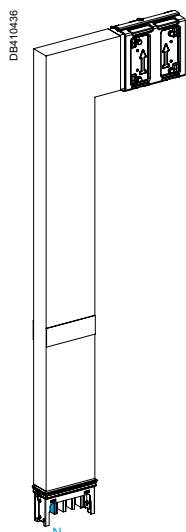


KSA500 to 1000 DLF 41A

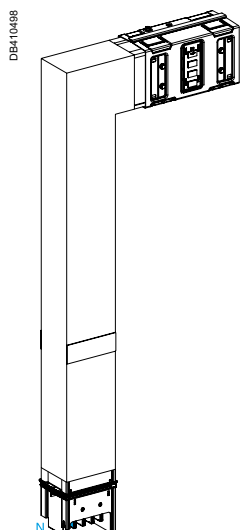
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLF 41F



KSA500 to 1000 DLF 41F

**To go Downward at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure including 1 Fire Barrier (FB)

| Cat. n°            | KSA250DLF41F  | KSA400DLF41F | KSA630DLF41F   | KSA1000DLF41F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1450   | 950 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

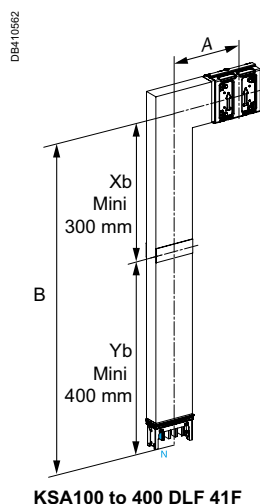
#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

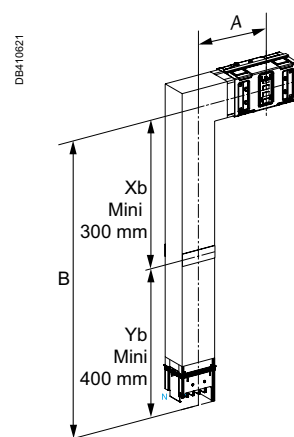
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.  
To order, indicate for example: KSA400DLF41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DLF 41F

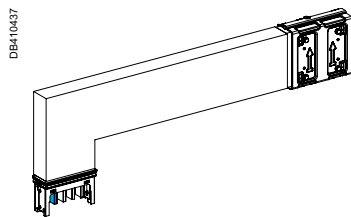


KSA500 to 1000 DLF 41F

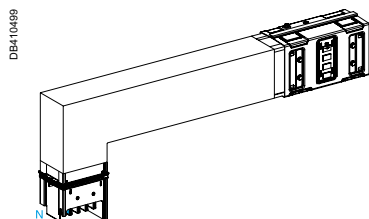
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLF 42A



KSA500 to 1000 DLF 42A

**To go Downward at 90° (Edgewise position)**  
Side A is made-to-measure, Side B is fixed

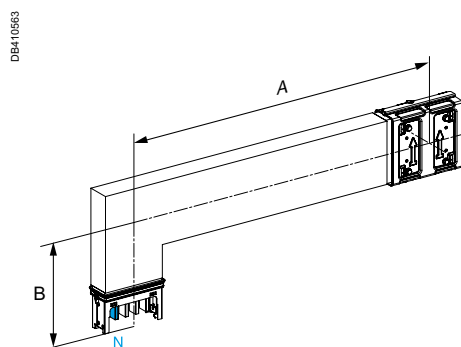
| Cat. n°            | KSA250DLF42A  | KSA400DLF42A | KSA630DLF42A   | KSA1000DLF42A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1000   | 500 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250        | 250        | 290        | 290        |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

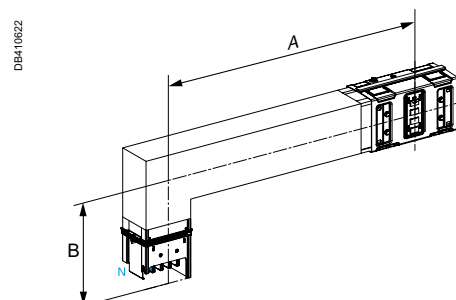
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. B dimension is fixed.

To order, indicate for example: KSA400DLF42A, A = 500



KSA100 to 400 DLF 42A



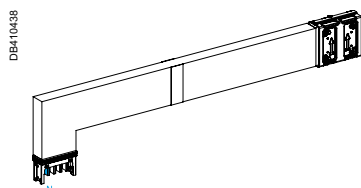
KSA500 to 1000 DLF 42A



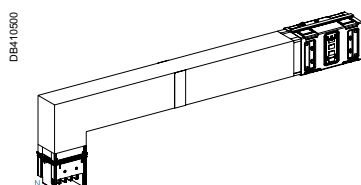
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLF 42F



KSA500 to 1000 DLF 42F

**To go Downward at 90° (Edgewise position)**  
Side A is made-to-measure including 1 Fire Barrier (FB), Side B is fixed

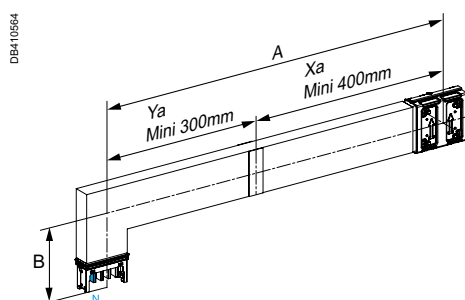
| Cat. n°            | KSA250DLF42F  | KSA400DLF42F | KSA630DLF42F   | KSA1000DLF42F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1450   | 950 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| B (mm)                | 250         | 250         | 290         | 290         |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side A   | On side A   | On side A   | On side A   |

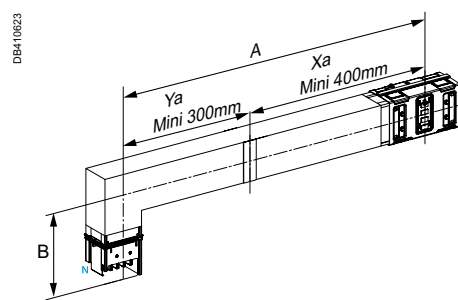
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. Fire barrier position on side A is adjustable in increments of 10 mm respecting the Xb and Yb minimum. B dimension is fixed.

To order, indicate for example: KSA400DLF42F, A = 900, Xa = 500, Ya = 400



KSA100 to 400 DLF 42F



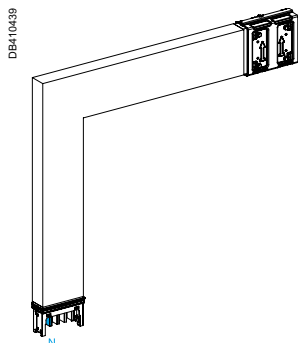
KSA500 to 1000 DLF 42F

E

## Advanced offer

## Change direction elements

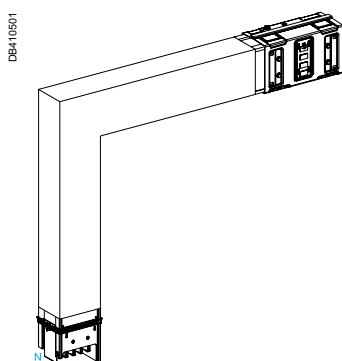
## Elbows



**To go Downward at 90° (Edgewise position)**  
Sides A and B are made-to-measure

| Cat. n°            | KSA250DLF43A  | KSA400DLF43A | KSA630DLF43A   | KSA1000DLF43A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DLF 43A



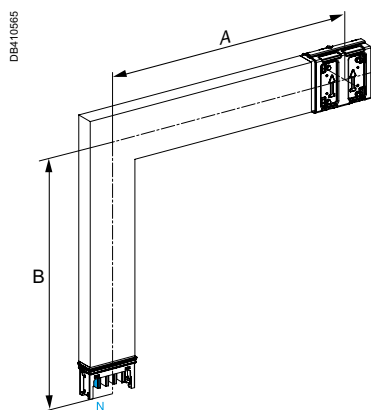
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

KSA500 to 1000 DLF 43A

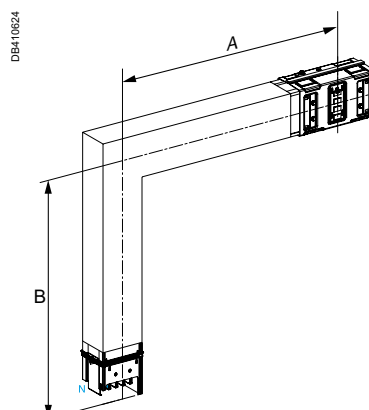
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLF43A, A = 500, B = 500



KSA100 to 400 DLF 43A

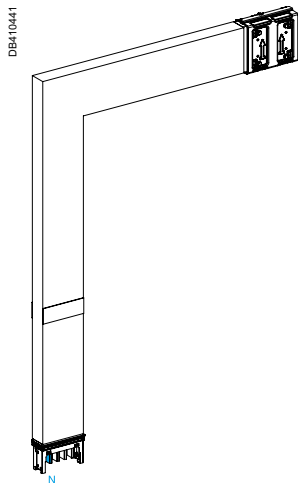


KSA500 to 1000 DLF 43A

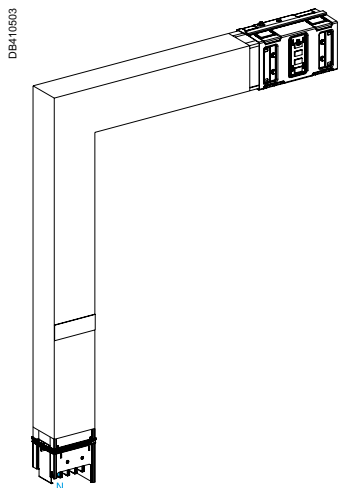
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLF 43F



KSA500 to 1000 DLF 43F

#### To go Downward at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°            | KSA250DLF43F  | KSA400DLF43F | KSA630DLF43F   | KSA1000DLF43F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1950   | 950 to 1950  | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

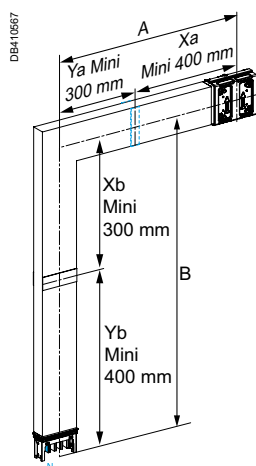
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | -                                      | -                                      | -                                      | -                                      |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  |

#### Additional Characteristics

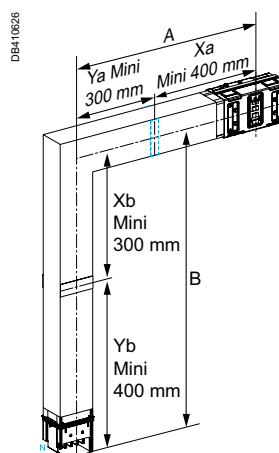
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positionned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum

To order, indicate for example: KSA400DLF43F, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLF 43F

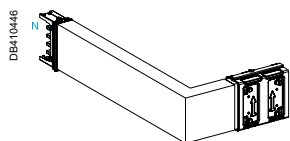


KSA500 to 1000 DLF 43F

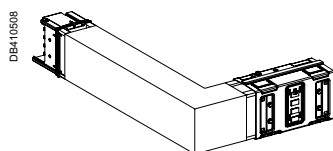
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLR 41A



KSA500 to 1000 DLR 41A

**To turn Right at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure

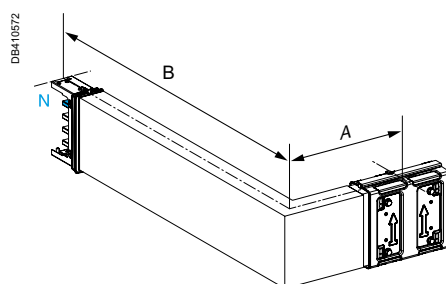
| Cat. n°            | KSA250DLR41A  | KSA400DLR41A | KSA630DLR41A   | KSA1000DLR41A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1000   | 500 to 1000  | 600 to 1100    | 600 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200        | 200        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

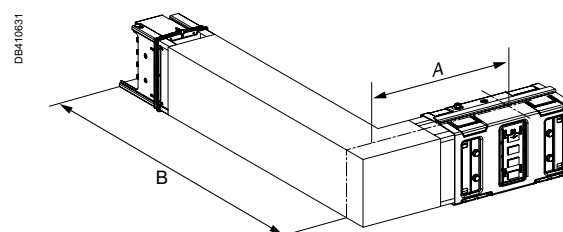
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum.

To order, indicate for example: KSA400DLR41A, B = 500



KSA100 to 400 DLR 41A

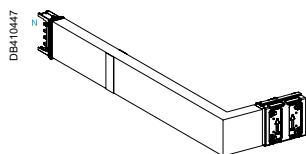


KSA500 to 1000 DLR 41A

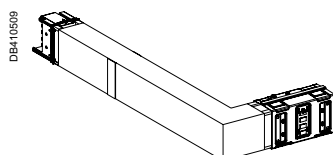
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLR 41F



KSA500 to 1000 DLR 41F

To turn Right at 90° (Edgewise position)

Side A is fixed, Side B is made-to-measure including 1 Fire Barrier (FB)

| Cat. n°            | KSA250DLR41F  | KSA400DLR41F | KSA630DLR41F   | KSA1000DLR41F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1450   | 900 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

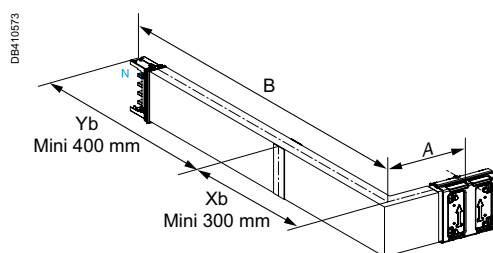
| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 200         | 200         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

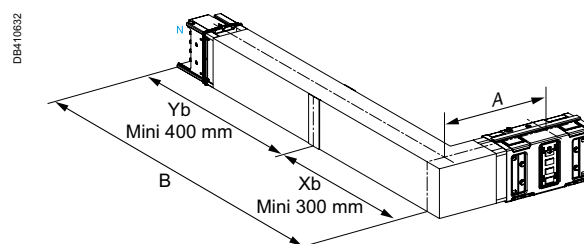
A dimension is fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DLR41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DLR 41F

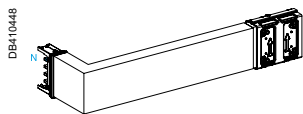


KSA500 to 1000 DLR 41F

## Advanced offer

## Change direction elements

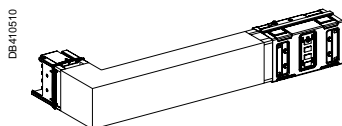
## Elbows



**To turn Right at 90° (Edgewise position)**  
Side A is made-to-measure, Side B is fixed

| Cat. n°            | KSA250DLR42A  | KSA400DLR42A | KSA630DLR42A   | KSA1000DLR42A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1000   | 400 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DLR 42A



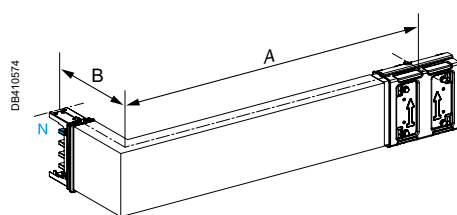
KSA500 to 1000 DLR 42A

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200        | 200        | 290        | 290        |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

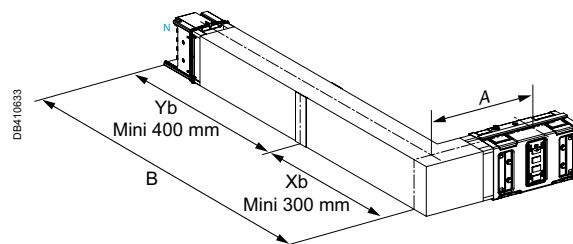
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. B dimension is fixed.

To order, indicate for example: KSA400DLR42A, A = 500



KSA250DLR42A

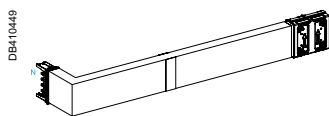


KSA500 to 1000 DLR 42A

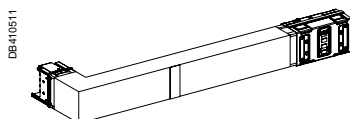
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLR 42F



KSA500 to 1000 DLR 42F

#### To turn Right at 90° (Edgewise position)

Side A is made-to-measure including 1 Fire Barrier (FB), Side B is fixed

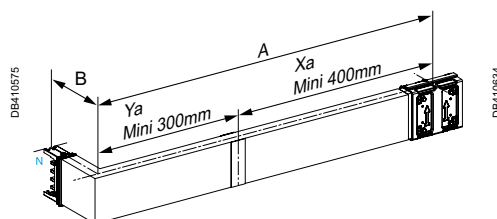
| Cat. n°            | KSA250DLR42F  | KSA400DLR42F | KSA630DLR42F   | KSA1000DLR42F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1450   | 900 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| B (mm)                | 200         | 200         | 290         | 290         |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side A   | On side A   | On side A   | On side A   |

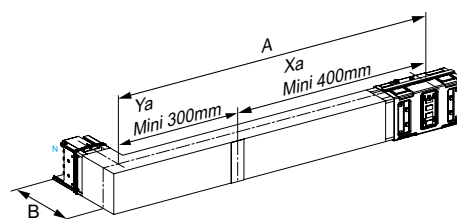
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. Fire barrier position on side A is adjustable in increments of 10 mm respecting the Xb and Yb minimum. B dimension is fixed.

To order, indicate for example: KSA400DLR42F, A = 900, Xa = 500, Ya = 400



KSA100 to 400 DLR 42F

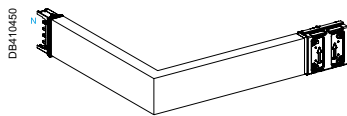


KSA500 to 1000 DLR 42F

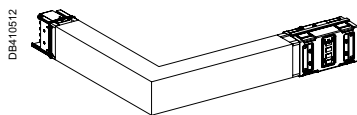
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLR 43A



KSA500 to 1000 DLR 43A

**To turn Right at 90° (Edgewise position)**  
**Sides A and B are made-to-measure**

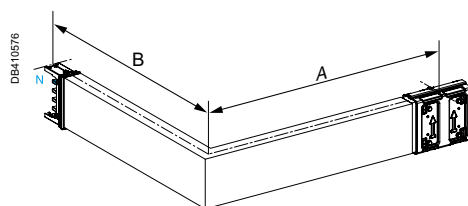
| Cat. n°            | KSA250DLR43A  | KSA400DLR43A | KSA630DLR43A   | KSA1000DLR43A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1500   | 400 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

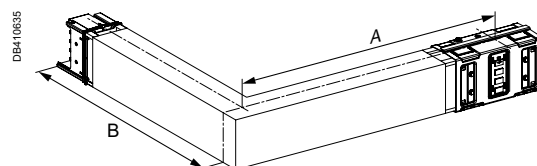
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLR43A, A = 500, B = 500



KSA100 to 400 DLR 43A



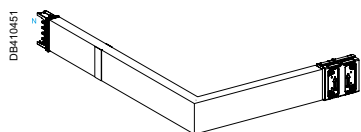
KSA500 to 1000 DLR 43A



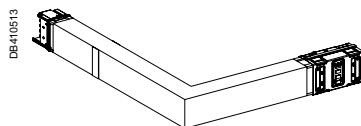
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLR 43F



KSA500 to 1000 DLR 43F

#### To turn Right at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°            | KSA250DLR43F  | KSA400DLR43F | KSA630DLR43F   | KSA1000DLR43F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1950   | 900 to 1950  | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

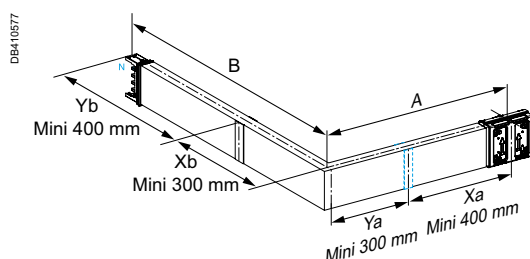
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | -                                      | -                                      | -                                      | -                                      |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  |

#### Additional Characteristics

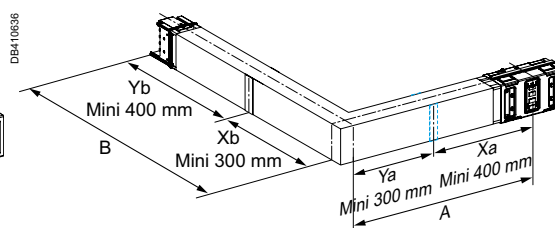
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positionned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum

To order, indicate for example: KSA400DLR43F, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLR 43F

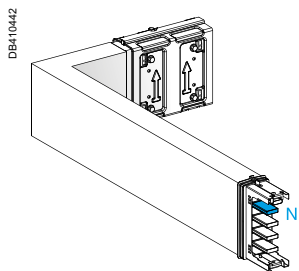


KSA500 to 1000 DLR 43F

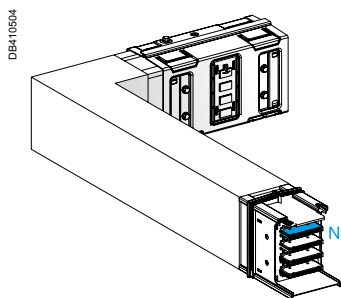
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLL 41A



KSA500 to 1000 DLL 41A

**To turn Left at 90° (Edgewise position)**  
Side A is fixed, Side B is made-to-measure

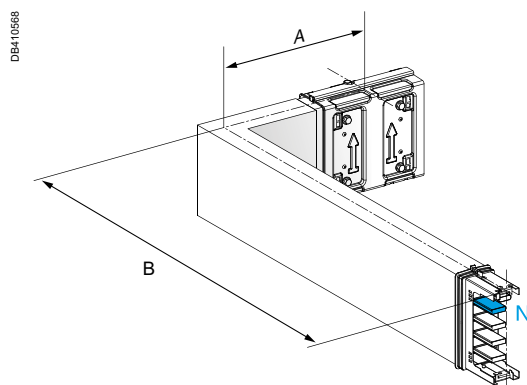
| Cat. n°            | KSA250DLL41A  | KSA400DLL41A | KSA630DLL41A   | KSA1000DLL41A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1000   | 400 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200        | 200        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

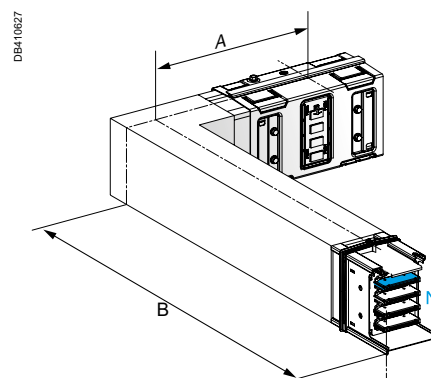
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension is fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum.

To order, indicate for example: KSA400DLL41A, B = 500



KSA100 to 400 DLL 41A

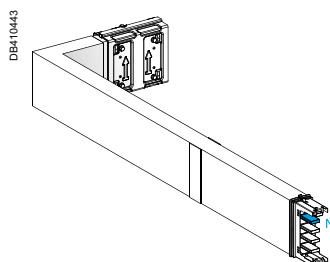


KSA500 to 1000 DLL 41A

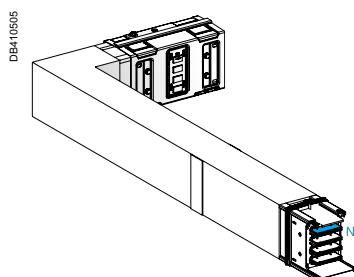
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLL 41F



KSA500 to 1000 DLL 41F

#### To turn Left at 90° (Edgewise position)

Side A is fixed, Side B is made-to-measure including 1 Fire Barrier (FB)

| Cat. n°            | KSA250DLL41F  | KSA400DLL41F | KSA630DLL41F   | KSA1000DLL41F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1450   | 900 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

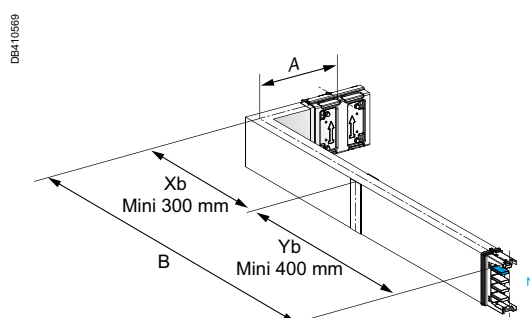
| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 200         | 200         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

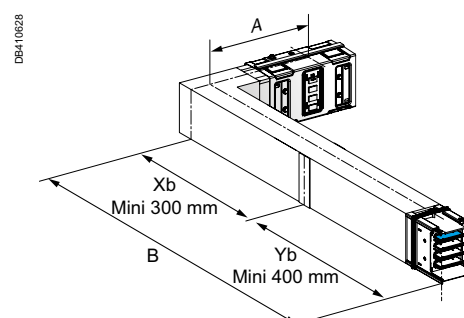
A dimension is fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DLL41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DLL 41F

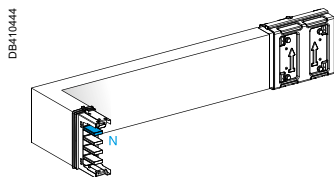


KSA500 to 1000 DLL 41F

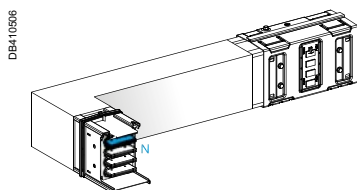
## Advanced offer

## Change direction elements

## Elbows



KSA100 to 400 DLL 42A



KSA500 to 1000 DLL 42A

**To turn Left at 90° (Edgewise position)**  
Side A is made-to-measure, Side B is fixed

| Cat. n°            | KSA250DLL42A  | KSA400DLL42A | KSA630DLL42A   | KSA1000DLL42A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1000   | 400 to 1000  | 580 to 1100    | 580 to 1100    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

**Dimensions**

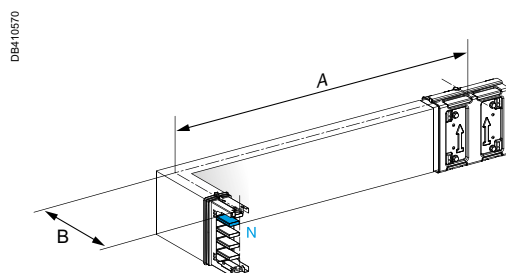
|                       |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200        | 200        | 290        | 290        |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

**Additional Characteristics**

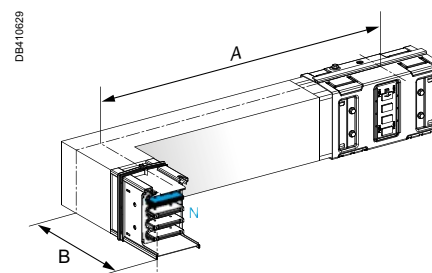
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. B dimension is fixed.

To order, indicate for example: KSA400DLL42A, A = 500



KSA100 to 400 DLL 42A

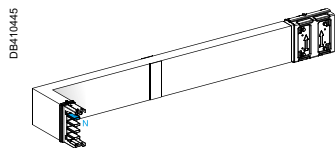


KSA500 to 1000 DLL 42A

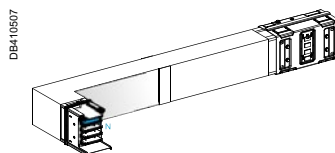
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLL 42F



KSA500 to 1000 DLL 42F

#### To turn Left at 90° (Edgewise position)

Side A is made-to-measure including 1 Fire Barrier (FB), Side B is fixed

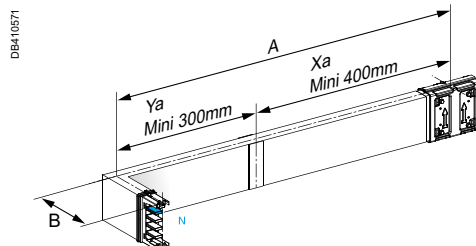
| Cat. n°            | KSA250DLL42F  | KSA400DLL42F | KSA630DLL42F   | KSA1000DLL42F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1450   | 900 to 1450  | 990 to 1500    | 990 to 1500    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| B (mm)                | 200         | 200         | 290         | 290         |
| C (mm)                | -           | -           | -           | -           |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side A   | On side A   | On side A   | On side A   |

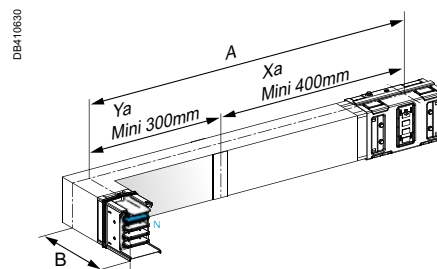
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A dimension can be adjusted in increments of 5 mm. See A minimum and maximum. Fire barrier position on side A is adjustable in increments of 10 mm respecting the Xb and Yb minimum. B dimension is fixed.

To order, indicate for example: KSA400DLL42F, A = 900, Xa = 500, Ya = 400



KSA100 to 400 DLL 42F

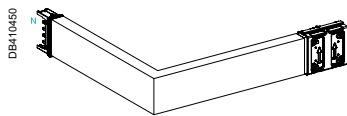


KSA500 to 1000 DLL 42F

## Advanced offer

## Change direction elements

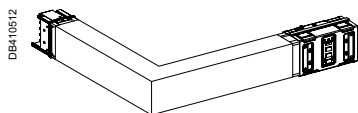
## Elbows



**To turn Left at 90° (Edgewise position)**  
Sides A and B are made-to-measure

| Cat. n°            | KSA250DLR43A  | KSA400DLR43A | KSA630DLR43A   | KSA1000DLR43A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1500   | 400 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DLR 43A



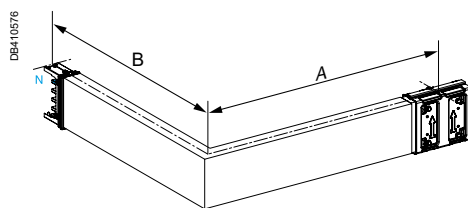
KSA500 to 1000 DLR 43A

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

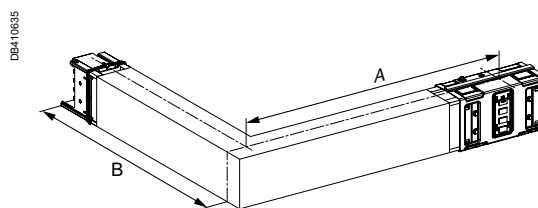
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLR43A, A = 500, B = 500



KSA250DLR43A

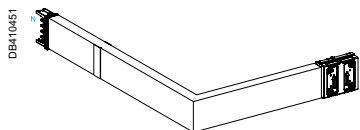


KSA500 to 1000 DLR 43A

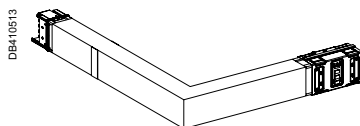
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLR 43F



KSA500 to 1000 DLR 43F

#### To turn Left at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

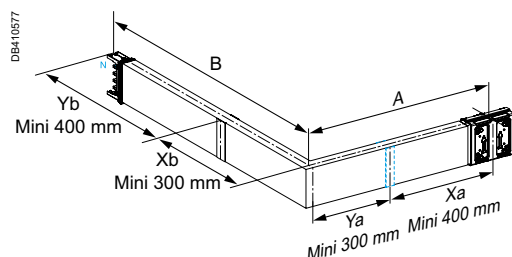
| Cat. n°            | KSA250DLR43F  | KSA400DLR43F | KSA630DLR43F   | KSA1000DLR43F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 900 to 1950   | 900 to 1950  | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |                                     |                                     |                                     |                                     |
|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| A (mm)                | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| B (mm)                | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| C (mm)                | -                                   | -                                   | -                                   | -                                   |
| D (mm)                | -                                   | -                                   | -                                   | -                                   |
| Fire Barrier          | Yes                                 | Yes                                 | Yes                                 | Yes                                 |
| Fire Barrier Position | Either on side A or B               | Either on side A or B               | Either on side A or B               | Either on side A or B               |

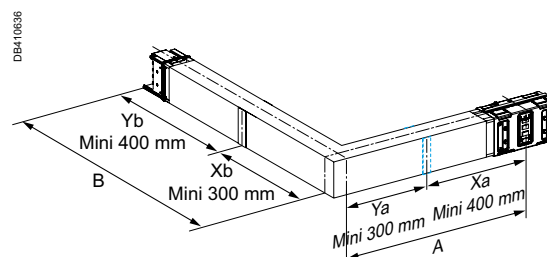
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positionned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum

To order, indicate for example: KSA400DLR43F, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLR 43F



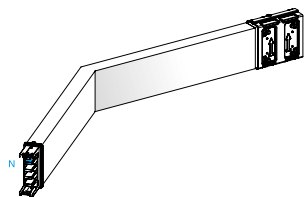
KSA500 to 1000 DLR 43F

## Advanced offer

## Change direction elements

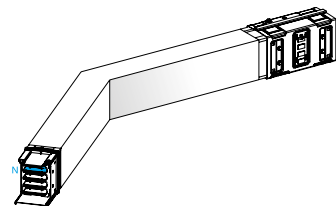
## Elbows

DB410426



KSA100 to 400 DLC 43B

DB410488



KSA500 to 1000 DLC 43B

**To turn Right or Left with Special Angle (Edgewise position)**  
Sides A and B are made-to-measure

| Cat. n°            | KSA250DLC43B  | KSA400DLC43B | KSA630DLC43B   | KSA1000DLC43B  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 400 to 1500   | 400 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

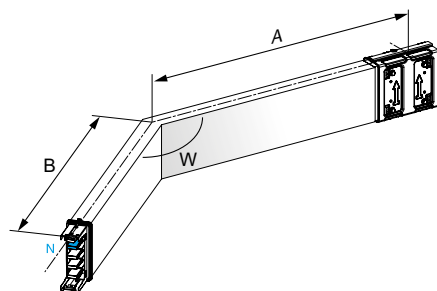
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.  
Angle of the elbow can also be adjusted from 90° to 180° in increments of 10°

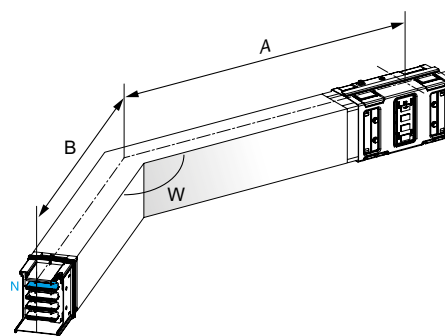
To order, indicate for example: KSA400DLC43B, A = 500, B = 500, W = 120°

DB410552



KSA100 to 400 DLC 43B

DB410611



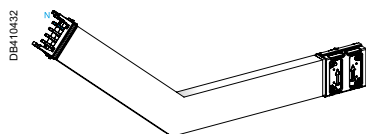
KSA500 to 1000 DLC 43B



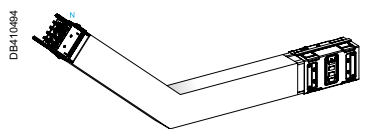
# Advanced offer

## Change direction elements

### Elbows



KSA100 to 400 DLE 43B



KSA500 to 1000 DLE 43B

**To go Upward with Special Angle (Edgewise position)**  
Sides A and B are made-to-measure

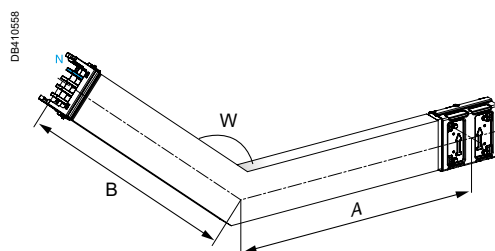
| Cat. n°            | KSA250DLE43B  | KSA400DLE43B | KSA630DLE43B   | KSA1000DLE43B  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

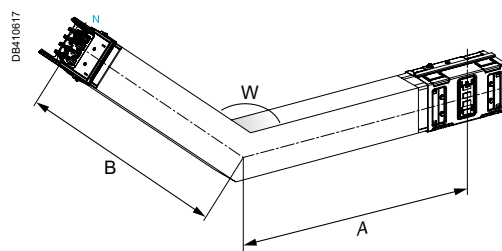
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.  
Angle of the elbow can also be adjusted from 90° to 180° in increments of 10°

To order, indicate for example: KSA400DLE43B, A = 500, B = 500, W = 120°



KSA100 to 400 DLE 43B



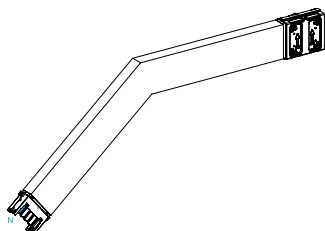
KSA500 to 1000 DLE 43B

## Advanced offer

## Change direction elements

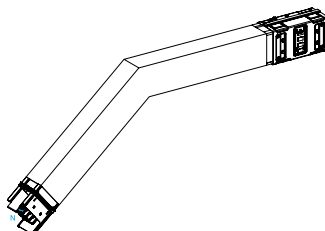
## Elbows

DB410440



KSA100 to 400 DLF 43B

DB410502



KSA500 to 1000 DLF 43B

**To go Downward with Special Angle (Edgewise position)**  
Sides A and B are made-to-measure

| Cat. n°            | KSA250DLF43B  | KSA400DLF43B | KSA630DLF43B   | KSA1000DLF43B  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

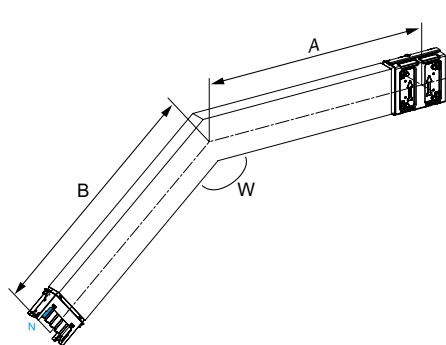
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.  
Angle of the elbow can also be adjusted from 90° to 180° in increments of 10°

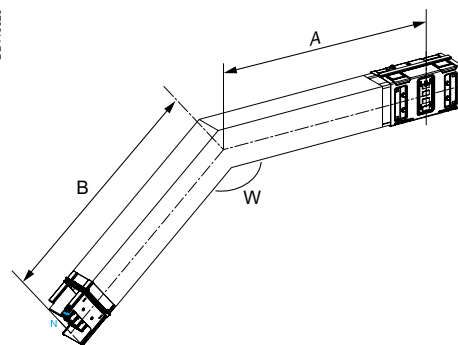
To order, indicate for example: KSA400DLF43B, A = 500, B = 500, W = 120°

DB410566



KSA100 to 400 DLF 43B

DB410625



KSA500 to 1000 DLF 43B

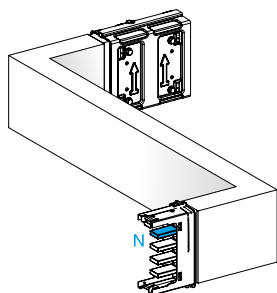


## Advanced offer

## Change direction elements

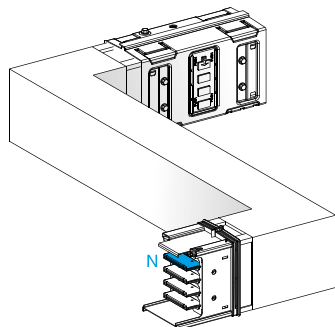
## Zeds

DB410468



KSA100 to 400 DZCG 41A

DB410531



KSA500 to 1000 DZCG 41A

**2 Turns at 90° - first Left, then Right (Edgewise position)**  
**Sides A and C are fixed, Side B is made-to-measure**

| Cat. n°            | KSA250DZCG41A | KSA400DZCG41A | KSA630DZCG41A  | KSA1000DZCG41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 600 to 1250   | 600 to 1250   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

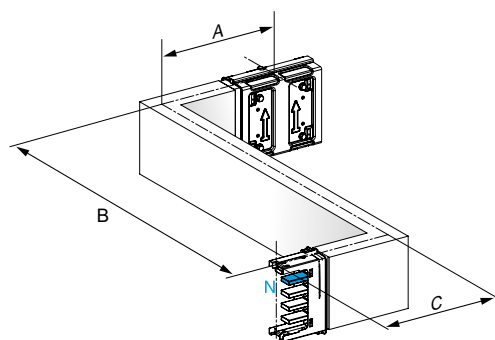
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200        | 200        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

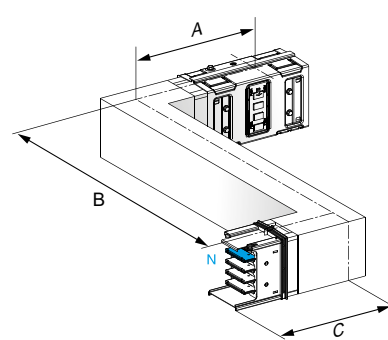
To order, indicate for example: KSA400DZCG41A, B = 500

DB410594



KSA100 to 400 DZCG 41A

DB410554

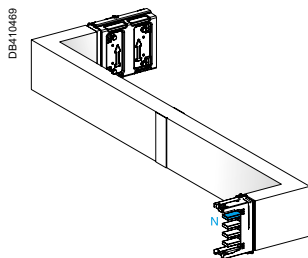


KSA500 to 1000 DZCG 41A

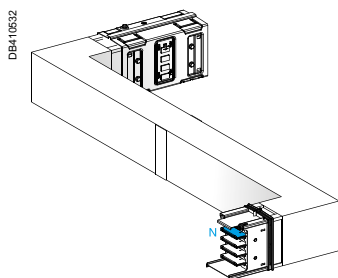
# Advanced offer

## Change direction elements

### Zeds



KSA100 to 400 DZCG 41F



KSA500 to 1000 DZCG 41F

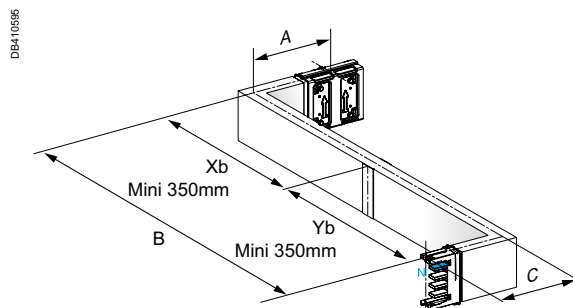
**2 Turns at 90° - first Left, then Right (Edgewise position)**  
Sides A and C are fixed, Side B is made-to-measure including a fire Barrier

| Cat. n°            | KSA250DZCG41F | KSA400DZCG41F | KSA630DZCG41F  | KSA1000DZCG41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1200 to 1700  | 1200 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

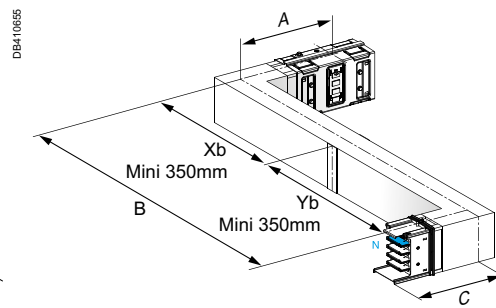
| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 200         | 200         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.  
To order, indicate for example: KSA400DZCG41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DZCG 41F



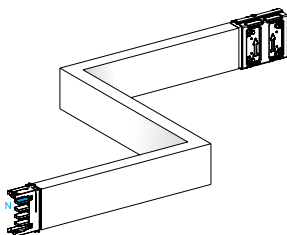
KSA500 to 1000 DZCG 41F

## Advanced offer

## Change direction elements

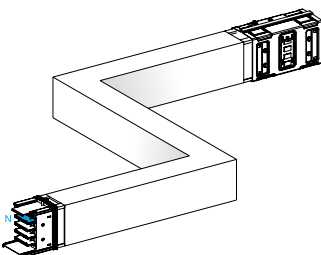
## Zeds

DB410470



KSA100 to 400 DZCG 43A

DB410533



KSA500 to 1000 DZCG 43A

**2 Turns at 90° - first Left, then Right (Edgewise position)**  
**Sides A, B, C are made-to-measure**

| Cat. n°            | KSA250DZCG43A | KSA400DZCG43A | KSA630DZCG43A  | KSA1000DZCG43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 600 to 2250   | 600 to 2250   | 870 to 2400    | 870 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

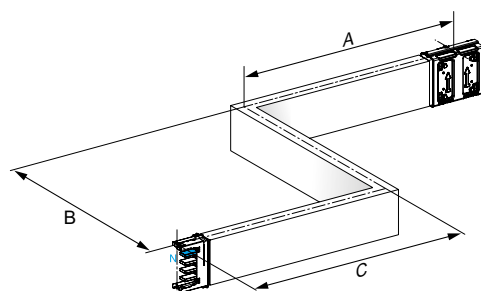
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

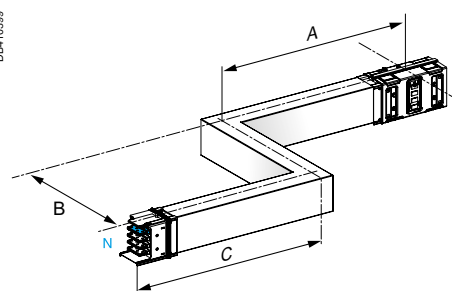
To order, indicate for example: KSA400DZCG43A, A = 400, B = 500, C = 600

DB410596



KSA100 to 400 DZCG 43A

DB410399



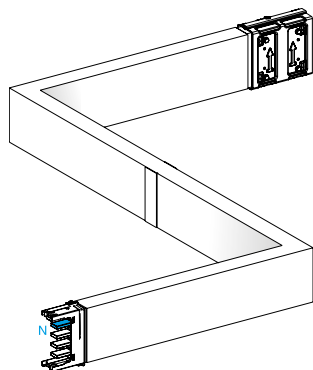
KSA500 to 1000 DZCG 43A

# Advanced offer

## Change direction elements

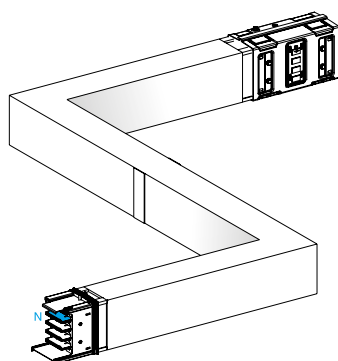
### Zeds

DB410471



KSA100 to 400 DZCG 43F

DB410534



KSA500 to 1000 DZCG 43F

**2 Turns at 90° - first Left, then Right (Edgewise position)**  
**Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche**

| Cat. n°            | KSA250DZCG43F | KSA400DZCG43F | KSA630DZCG43F  | KSA1000DZCG43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1100 to 2700  | 1100 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

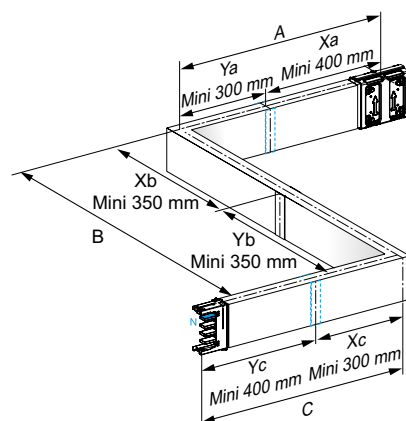
| Dimensions            |                                     |                                     |                                     |                                     |
|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| A (mm)                | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| B (mm)                | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (200 to 800) or (700 to 1200) if FB | (200 to 800) or (700 to 1200) if FB |
| C (mm)                | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| D (mm)                | -                                   | -                                   | -                                   | -                                   |
| Fire Barrier          | Yes                                 | Yes                                 | Yes                                 | Yes                                 |
| Fire Barrier Position | Either on side A or B or C          | Either on side A or B or C          | Either on side A or B or C          | Either on side A or B or C          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
 One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the minimum.

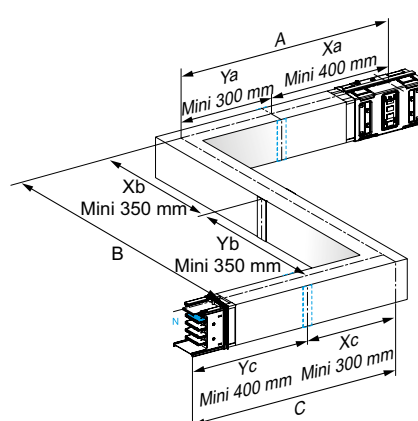
To order, indicate for example: KSA400DZCG43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600

DB410657



KSA100 to 400 DZCG 43F

DB410657

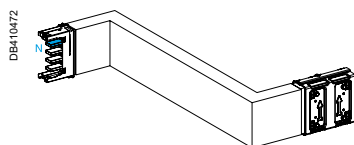


KSA500 to 1000 DZCG 43F

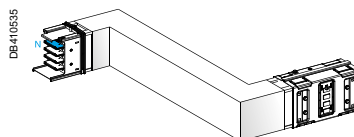
## Advanced offer

## Change direction elements

## Zeds



KSA100 to 400 DZCH 41A



KSA500 to 1000 DZCH 41A

**2 Turns at 90° - first Right, then Left (Edgewise position)**  
**Sides A and C are fixed, Side B is made-to-measure**

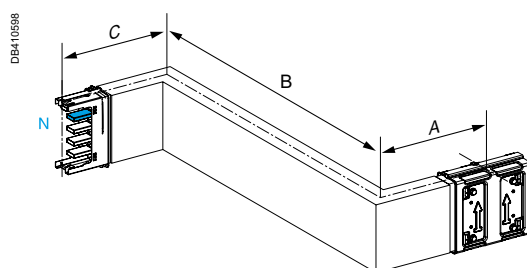
| Cat. n°            | KSA250DZCH41A | KSA400DZCH41A | KSA630DZCH41A  | KSA1000DZCH41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 600 to 1250   | 600 to 1250   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200        | 200        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

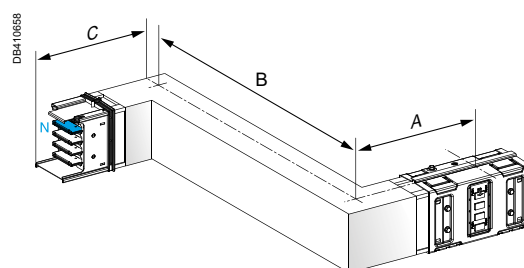
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

To order, indicate for example: KSA400DZCH41A, B = 500



KSA100 to 400 DZCH 41A



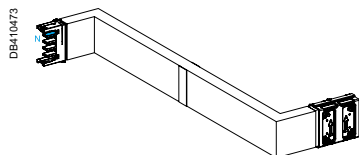
KSA500 to 1000 DZCH 41A



# Advanced offer

## Change direction elements

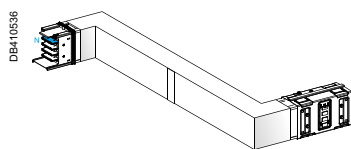
### Zeds



**2 Turns at 90° - first Right, then Left (Edgewise position)**  
Sides A and C are fixed, Side B is made-to-measure including a fire Barrier

| Cat. n°            | KSA250DZCH41F | KSA400DZCH41F | KSA630DZCH41F  | KSA1000DZCH41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1100 to 1700  | 1100 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

**KSA100 to 400 DZCH 41F**



**KSA500 to 1000 DZCH 41F**

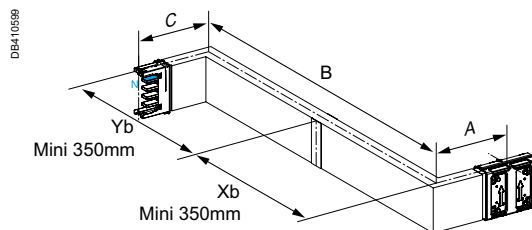
| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 200         | 200         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

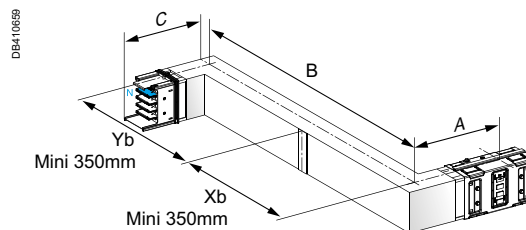
A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DZCH41F, B = 900, Xb = 500, Yb = 400



**KSA100 to 400 DZCH 41F**

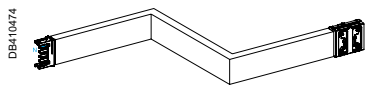


**KSA500 to 1000 DZCH 41F**

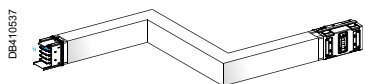
## Advanced offer

## Change direction elements

## Zeds



KSA100 to 400 DZCH 43A



KSA500 to 1000 DZCH 43A

**2 Turns at 90° - first Right, then Left (Edgewise position)**  
**Sides A, B, C are made-to-measure**

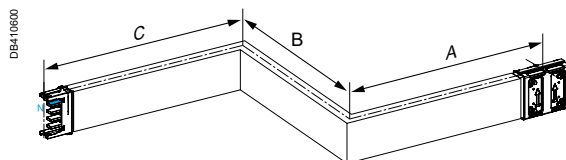
| Cat. n°            | KSA250DZCH43A | KSA400DZCH43A | KSA630DZCH43A  | KSA1000DZCH43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 600 to 2250   | 600 to 2250   | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

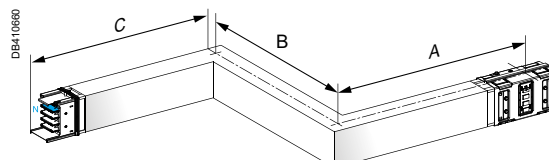
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DZCH43A, A = 400, B = 500, C = 600



KSA100 to 400 DZCH 43A

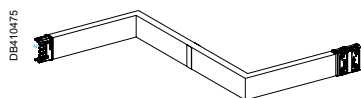


KSA500 to 1000 DZCH 43A

# Advanced offer

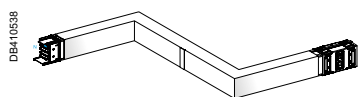
## Change direction elements

### Zeds



**2 Turns at 90° - first Right, then Left (Edgewise position)**  
**Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche**

#### KSA100 to 400 DZCH 43F



#### KSA500 to 1000 DZCH 43F

| Cat. n°            | KSA250DZCH43F | KSA400DZCH43F | KSA630DZCH43F  | KSA1000DZCH43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1100 to 2700  | 1100 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

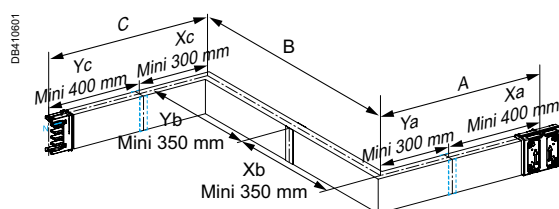
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          |

#### Additional Characteristics

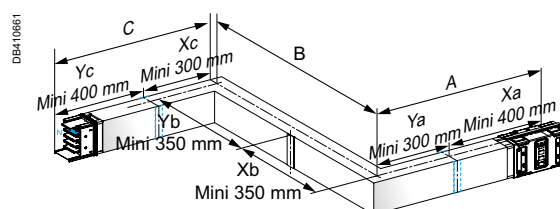
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
 One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the minimum.

To order, indicate for example: KSA400DZCH43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DZCH 43F

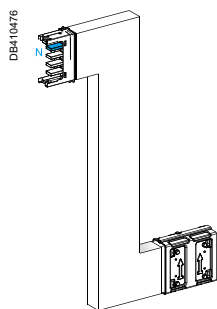


KSA500 to 1000 DZCH 43F

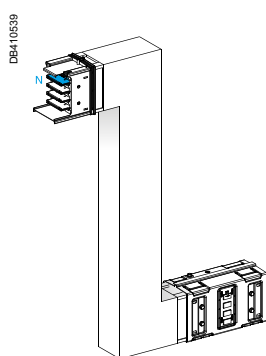
## Advanced offer

## Change direction elements

## Zeds



KSA100 to 400 DZE 41A



KSA500 to 1000 DZE 41A

**2 Turns at 90° - Upward or Downward (reversible), then straight (Edgewise position)**  
**Sides A and C are fixed, Side B is made-to-measure**

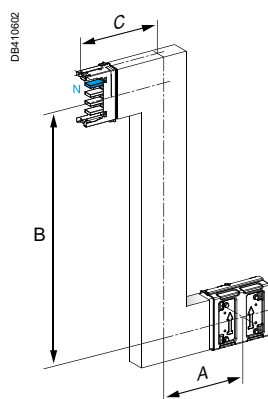
| Cat. n°            | KSA250DZE41A  | KSA400DZE41A | KSA630DZE41A   | KSA1000DZE41A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 700 to 1250   | 700 to 1250  | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 280        | 280        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 250        | 250        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

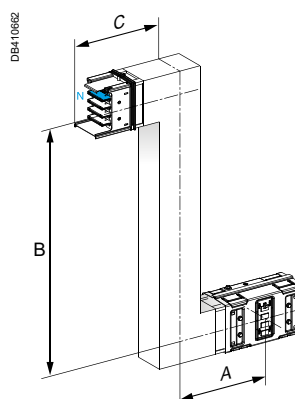
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

To order, indicate for example: KSA400DZE41A, B = 500



KSA100 to 400 DZE 41A

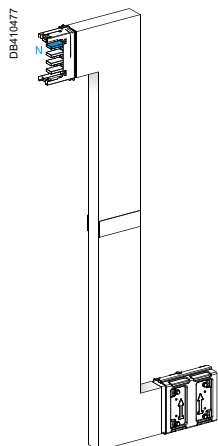


KSA500 to 1000 DZE 41A

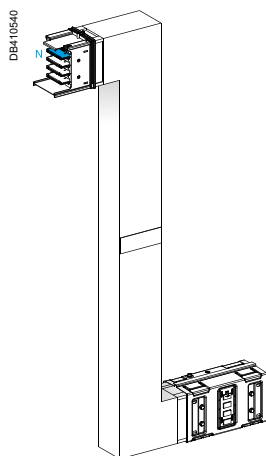
# Advanced offer

## Change direction elements

### Zeds



KSA100 to 400 DZE 41F



KSA500 to 1000 DZE 41F

**2 Turns at 90° - Upward or Downward (reversible), then straight (Edgewise position)**  
**Sides A and C are fixed, Side B is made-to-measure including a fire Barrier**

| Cat. n°            | KSA250DZE41F  | KSA400DZE41F | KSA630DZE41F   | KSA1000DZE41F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1200 to 1700  | 1200 to 1700 | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 250         | 250         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

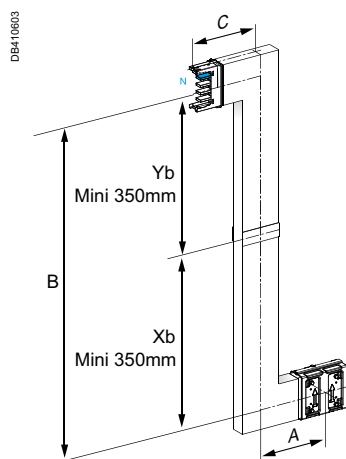
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

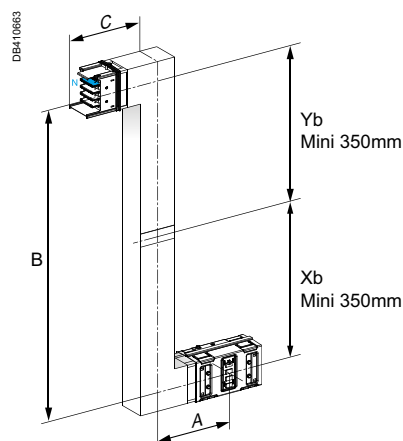
A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DZE41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DZE 41F

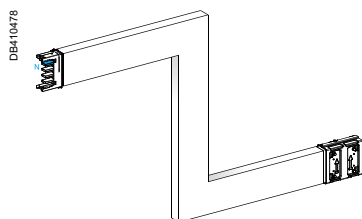


KSA500 to 1000 DZE 41F

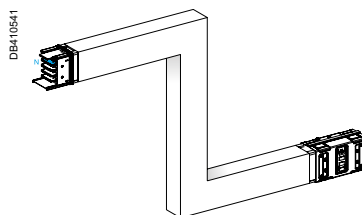
## Advanced offer

## Change direction elements

## Zeds



KSA100 to 400 DZE 43A



KSA500 to 1000 DZE 43A

**2 Turns at 90° - Upward or Downward (reversible), then straight (Edgewise position)**  
**Sides A, B, C are made-to-measure**

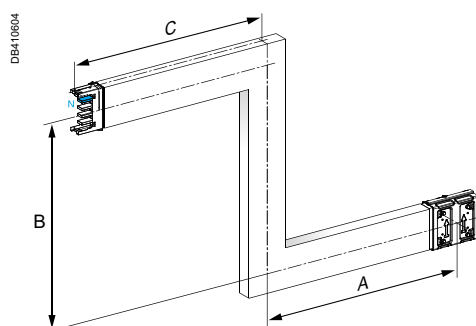
| Cat. n°            | KSA250DZE43A  | KSA400DZE43A | KSA630DZE43A   | KSA1000DZE43A  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 700 to 2250   | 700 to 2250  | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

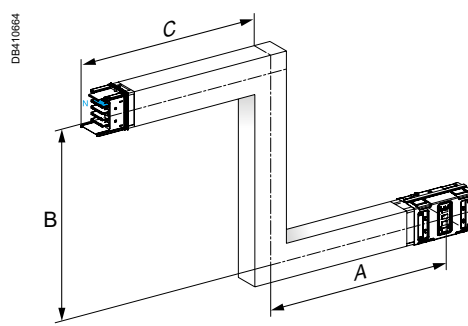
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DZE43A, A = 400, B = 500, C = 600



KSA100 to 400 DZE 43A

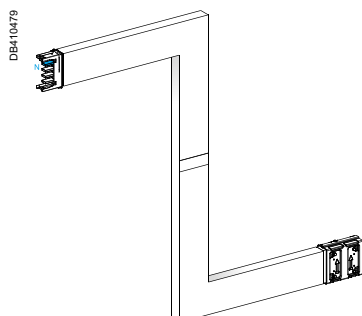


KSA500 to 1000 DZE 43A

# Advanced offer

## Change direction elements

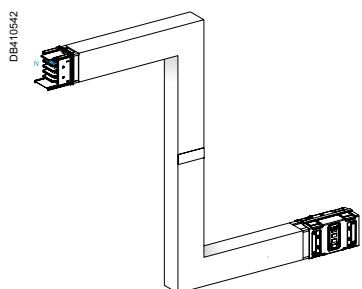
### Zeds



**2 Turns at 90° - Upward or Downward (reversible), then straight (Edgewise position)**  
Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche

| Cat. n°            | KSA250DZE43F  | KSA400DZE43F | KSA630DZE43F   | KSA1000DZE43F  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 2700  | 1200 to 2700 | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DZE 43F



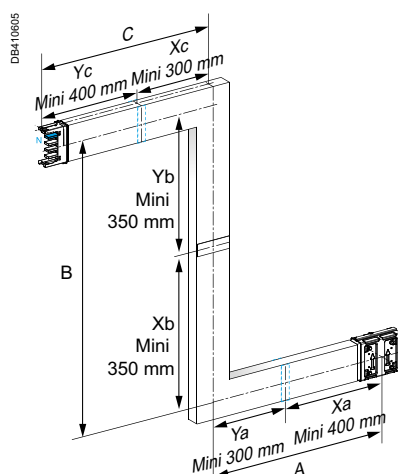
| Dimensions            |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          |

KSA500 to 1000 DZE 43F

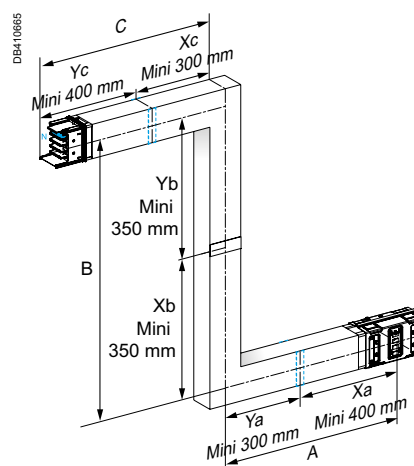
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the minimum.

To order, indicate for example: KSA400DZE43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DZE 43F

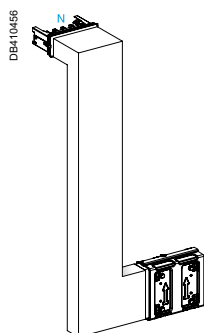


KSA500 to 1000 DZE 43F

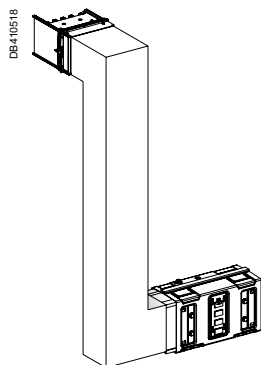
## Advanced offer

## Change direction elements

## Multiples



KSA100 to 400 DMBL 41A



KSA500 to 1000 DMBL 41A

**2 turns at 90° - Upward (Edgewise position), then turns right (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure**

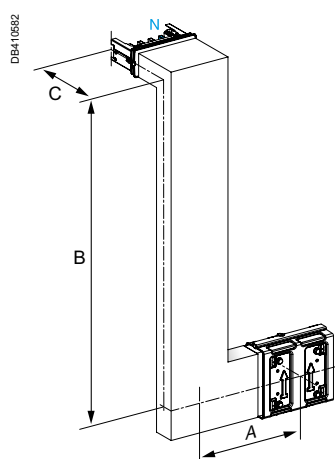
| Cat. n°            | KSA250DMBL41A | KSA400DMBL41A | KSA630DMBL41A  | KSA1000DMBL41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 1250   | 650 to 1250   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

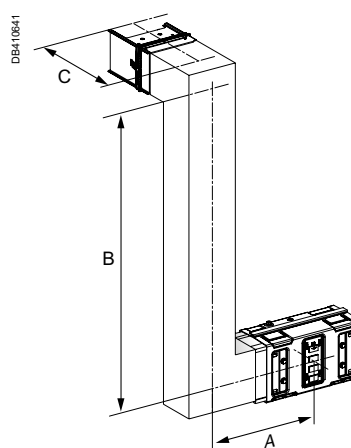
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

To order, indicate for example: KSA400DMBL41A, B = 500



KSA100 to 400 DMBL 41A



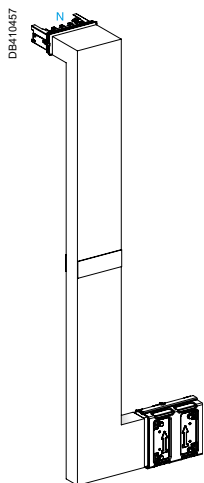
KSA500 to 1000 DMBL 41A



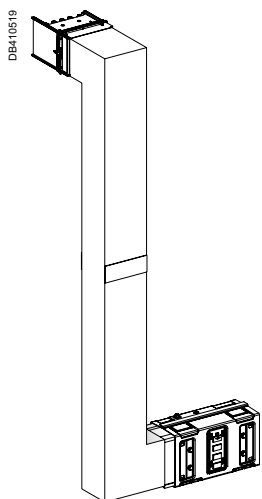
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMBL 41F



KSA500 to 1000 DMBL 41F

**2 turns at 90° - Upward (Edgewise position), then turns right (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure including a fire Barrier**

| Cat. n°            | KSA250DMBL41F | KSA400DMBL41F | KSA630DMBL41F  | KSA1000DMBL41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 1700  | 1150 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

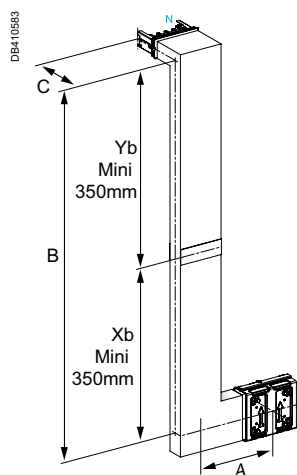
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

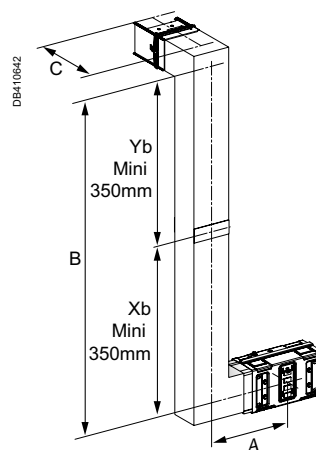
A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DMBL41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DMBL 41F

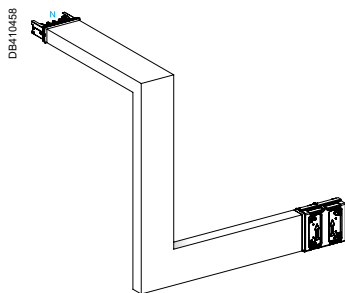


KSA500 to 1000 DMBL 41F

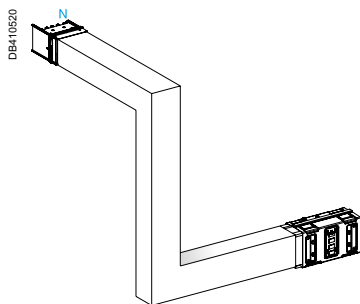
## Advanced offer

## Change direction elements

## Multiples



KSA100 to 400 DMBL 43A



KSA500 to 1000 DMBL 43A

**2 turns at 90° - Upward (Edgewise position), then turns right (Flat position)**  
**Sides A, B, C are made-to-measure**

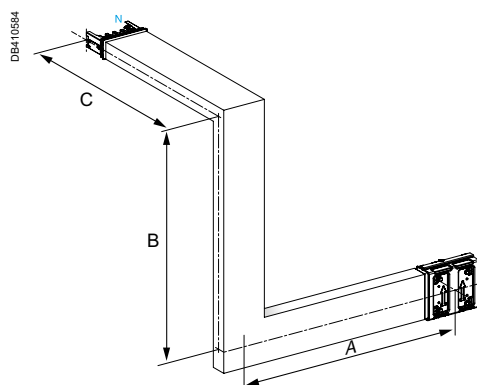
| Cat. n°            | KSA250DMBL43A | KSA400DMBL43A | KSA630DMBL43A  | KSA1000DMBL43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 2250   | 650 to 2250   | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

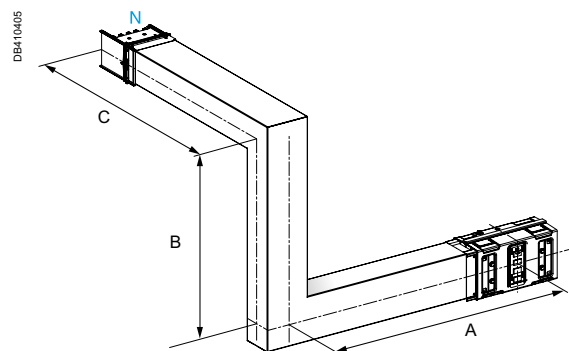
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DMBL43A, A = 400, B = 500, C = 600



KSA100 to 400 DMBL 43A

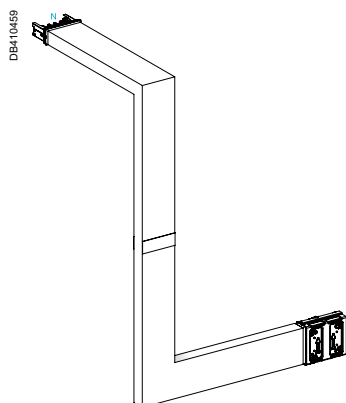


KSA500 to 1000 DMBL 43A

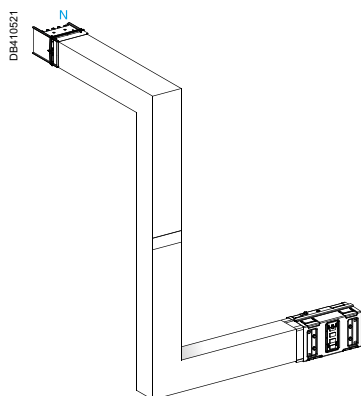
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMBL 43F



KSA500 to 1000 DMBL 43F

**2 turns at 90° - Upward (Edgewise position), then turns right (Flat position)**  
Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche

| Cat. n°            | KSA250DMBL43F | KSA400DMBL43F | KSA630DMBL43F  | KSA1000DMBL43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 2700  | 1150 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

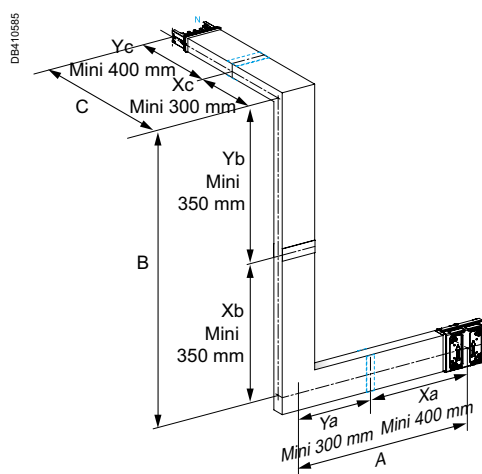
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B or C             | Either on side A or B or C             | Either on side A or B or C             | Either on side A or B or C             |

#### Additional Characteristics

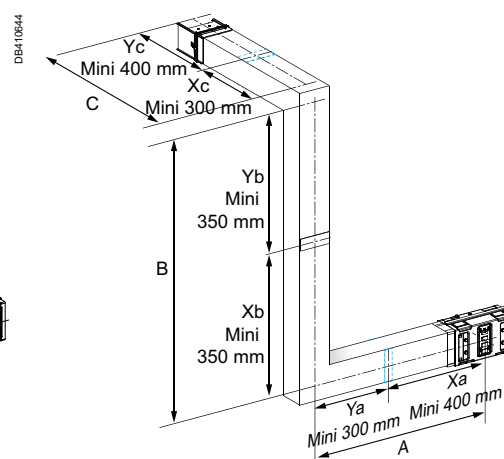
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the minimum.

To order, indicate for example: KSA400DMBL43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DMBL 43F

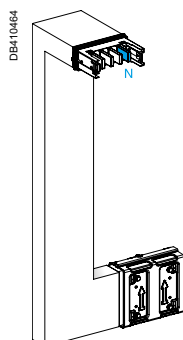


KSA500 to 1000 DMBL 43F

## Advanced offer

## Change direction elements

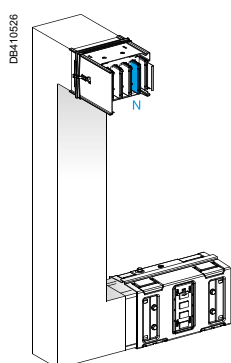
## Multiples



**2 turns at 90° - Upward (Edgewise position), then turns left (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure**

| Cat. n°            | KSA250DMCL41A | KSA400DMCL41A | KSA630DMCL41A  | KSA1000DMCL41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 1250   | 650 to 1400   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DMCL 41A



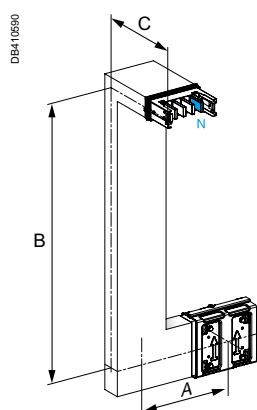
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

KSA500 to 1000 DMCL 41A

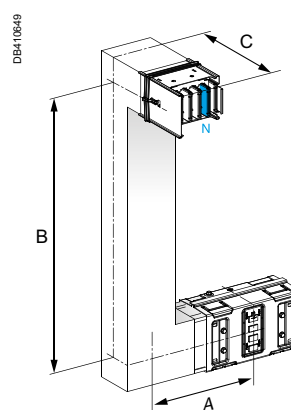
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

To order, indicate for example: KSA400DMCL41A, B = 500



KSA100 to 400 DMCL 41A

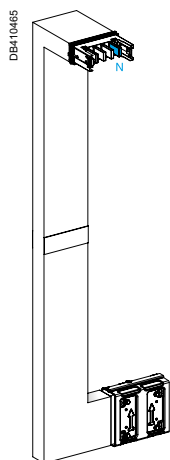


KSA500 to 1000 DMCL 41A

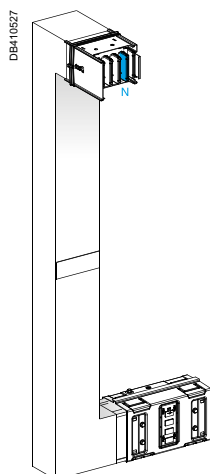
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMCL 41F



KSA500 to 1000 DMCL 41F

**2 turns at 90° - Upward (Edgewise position), then turns left (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure including a fire Barrier**

| Cat. n°            | KSA250DMCL41F | KSA400DMCL41F | KSA630DMCL41F  | KSA1000DMCL41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 1700  | 1150 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

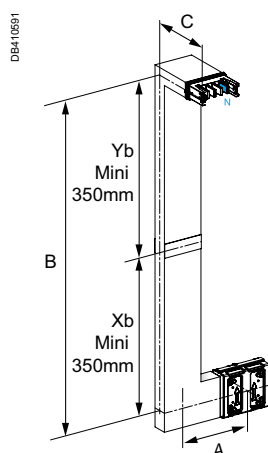
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

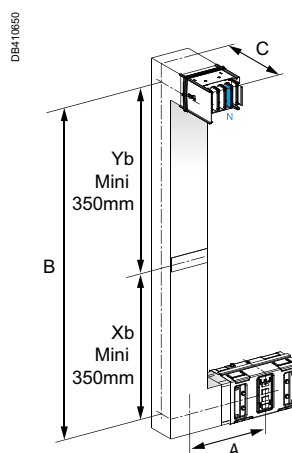
A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DMCL41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DMCL 41F

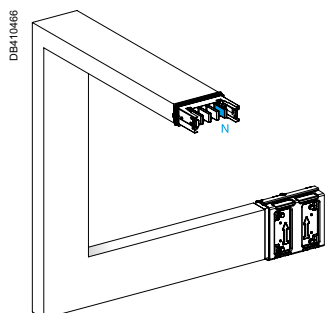


KSA500 to 1000 DMCL 41F

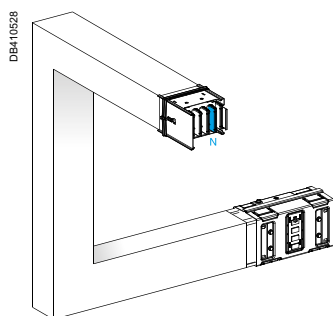
## Advanced offer

## Change direction elements

## Multiples



KSA100 to 400 DMCL 43A



KSA500 to 1000 DMCL 43A

**2 turns at 90° - Upward (Edgewise position), then turns left (Flat position)**  
**Sides A, B, C are made-to-measure**

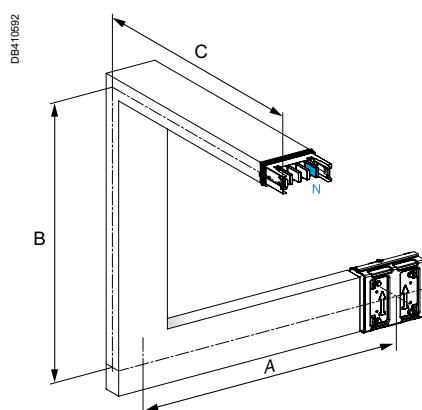
| Cat. n°            | KSA250DMCL43A | KSA400DMCL43A | KSA630DMCL43A  | KSA1000DMCL43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 2250   | 650 to 2250   | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

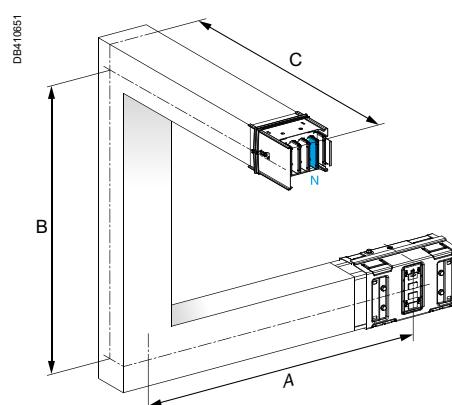
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DMCL43A, A = 400, B = 500, C = 600



KSA100 to 400 DMCL 43A

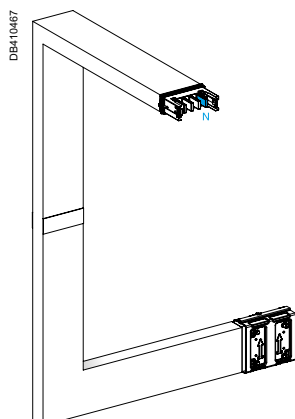


KSA500 to 1000 DMCL 43A

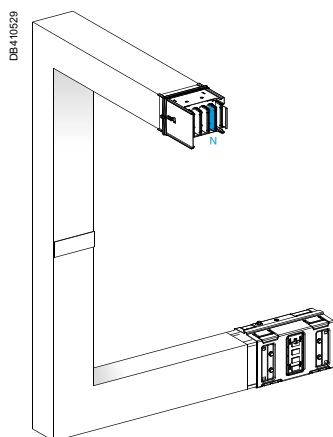
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMCL 43F



KSA500 to 1000 DMCL 43F

**2 turns at 90° - Upward (Edgewise position), then turns left (Flat position)**  
**Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche**

| Cat. n°            | KSA250DMCL43F | KSA400DMCL43F | KSA630DMCL43F  | KSA1000DMCL43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 2700  | 1150 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

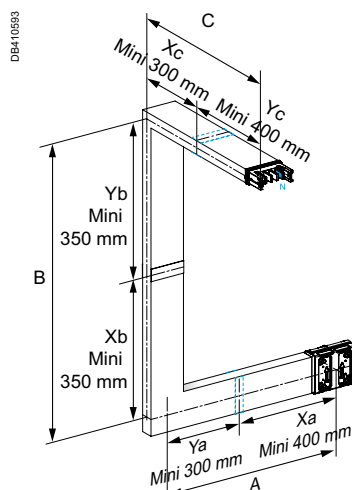
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          |

#### Additional Characteristics

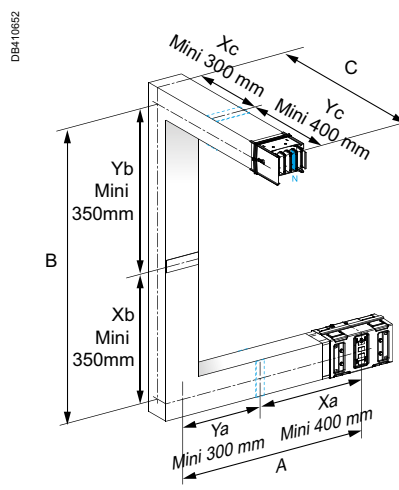
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
 One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the minimum.

To order, indicate for example: KSA400DMCL43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DMCL 43F



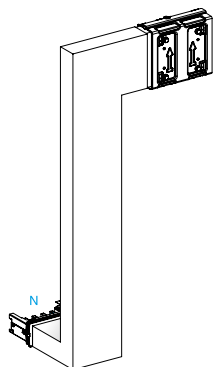
KSA500 to 1000 DMCL 43F

## Advanced offer

## Change direction elements

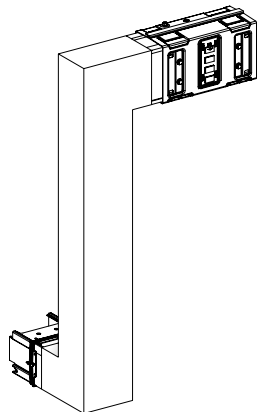
## Multiples

DB410452



KSA100 to 400 DMBK 41A

DB410514



KSA500 to 1000 DMBK 41A

**2 turns at 90° - Downward (Edgewise position), then turns right (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure**

| Cat. n°            | KSA250DMBK41A | KSA400DMBK41A | KSA630DMBK41A  | KSA1000DMBK41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 1250   | 650 to 1250   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

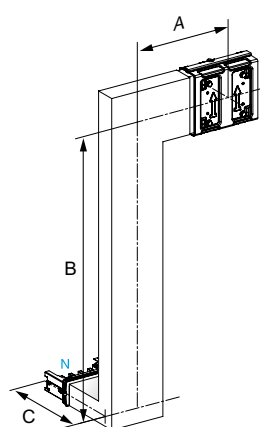
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

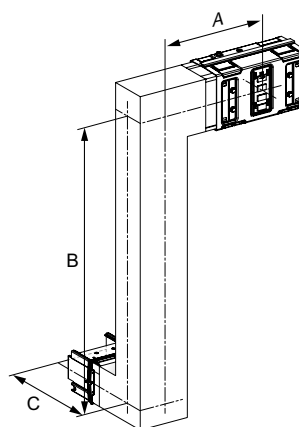
To order, indicate for example: KSA400DMBK41A, B = 500

DB410576



KSA100 to 400 DMBK 41A

DB410637



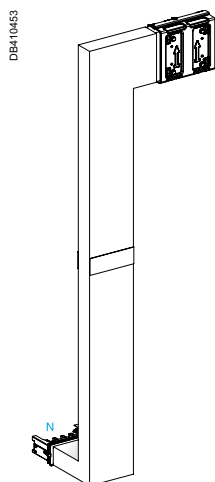
KSA500 to 1000 DMBK 41A



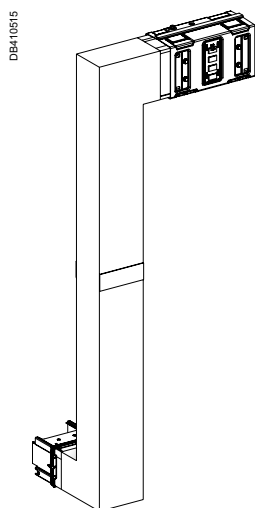
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMBK 41F



KSA500 to 1000 DMBK 41F

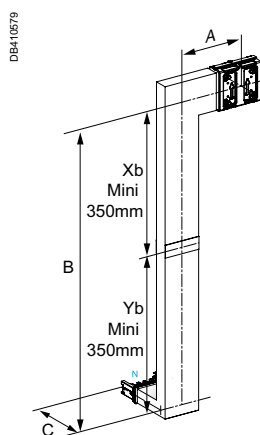
**2 turns at 90° - Downward (Edgewise position), then turns right (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure including a fire Barrier**

| Cat. n°            | KSA250DMBK41F | KSA400DMBK41F | KSA630DMBK41F  | KSA1000DMBK41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 1700  | 1150 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

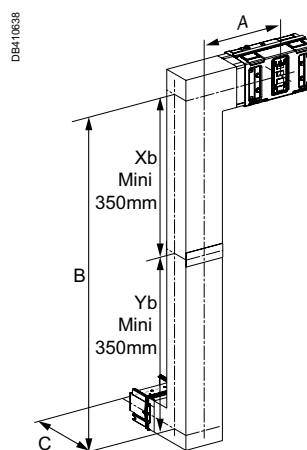
| Dimensions            |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.  
 To order, indicate for example: KSA400DMBK41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DMBK 41F

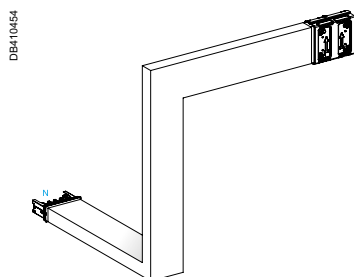


KSA500 to 1000 DMBK 41F

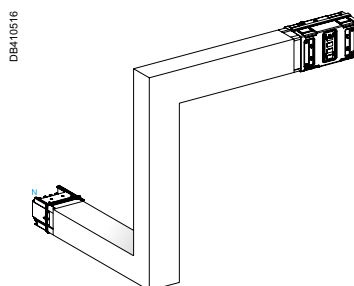
## Advanced offer

## Change direction elements

## Multiples



KSA100 to 400 DMBK 43A



KSA500 to 1000 DMBK 43A

**2 turns at 90° - Downward (Edgewise position), then turns right (Flat position)**  
**Sides A, B, C are made-to-measure**

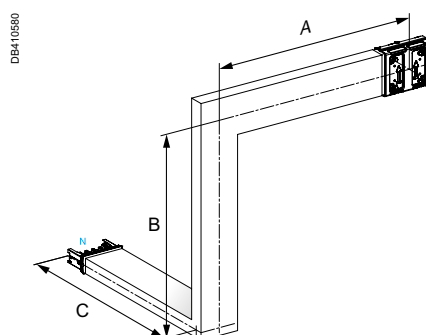
| Cat. n°            | KSA250DMBK43A | KSA400DMBK43A | KSA630DMBK43A  | KSA1000DMBK43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 2250   | 650 to 2250   | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

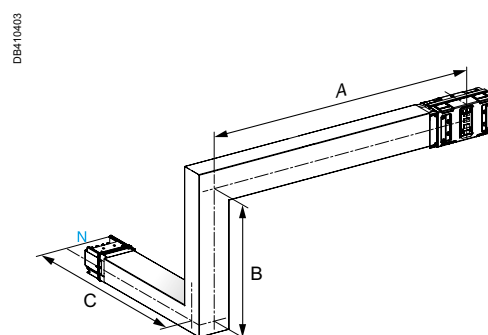
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DMBK43A, A = 400, B = 500, C = 600



KSA100 to 400 DMBK 43A

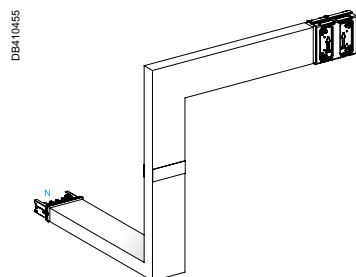


KSA500 to 1000 DMBK 43A

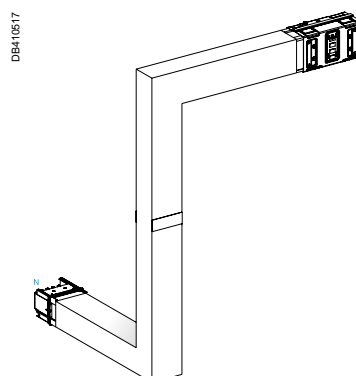
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMBK 43F



KSA500 to 1000 DMBK 43F

**2 turns at 90° - Downward (Edgewise position), then turns right (Flat position)**  
**Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche**

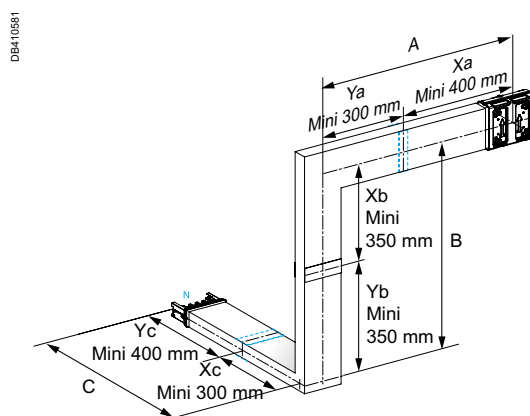
| Cat. n°            | KSA250DMBK43F | KSA400DMBK43F | KSA630DMBK43F  | KSA1000DMBK43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 2700  | 1150 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          | Either on side A or<br>B or C          |

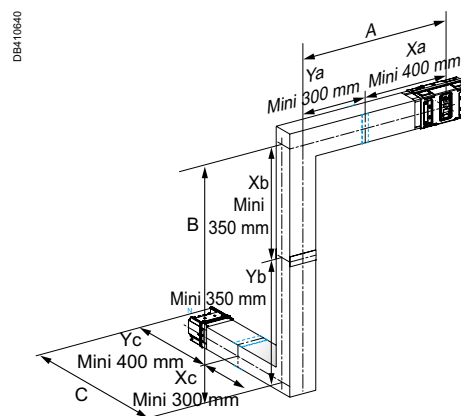
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
 One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the X and Y minimum.

To order, indicate for example: KSA400DMBK43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DMBK 43F

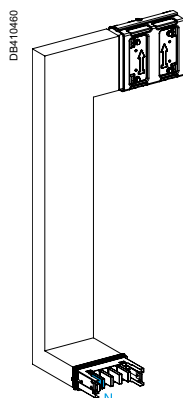


KSA500 to 1000 DMBK 43F

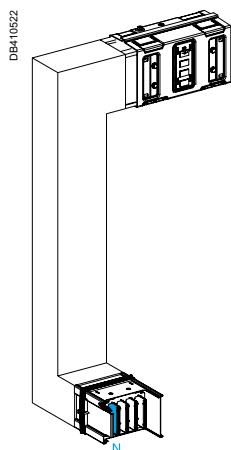
## Advanced offer

## Change direction elements

## Multiples



KSA100 to 400 DMCK 41A



KSA500 to 1000 DMCK 41A

**2 turns at 90° - Downward (Edgewise position), then turns left (Flat position)**  
**Sides A and C are fixed, Side B is made-to-measure**

| Cat. n°            | KSA250DMCK41A | KSA400DMCK41A | KSA630DMCK41A  | KSA1000DMCK41A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 1250   | 650 to 1250   | 780 to 1400    | 780 to 1400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

**Dimensions**

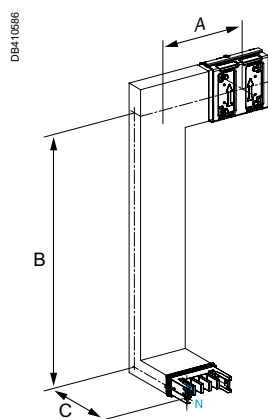
|                       |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250        | 250        | 290        | 290        |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200        | 200        | 290        | 290        |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

**Additional Characteristics**

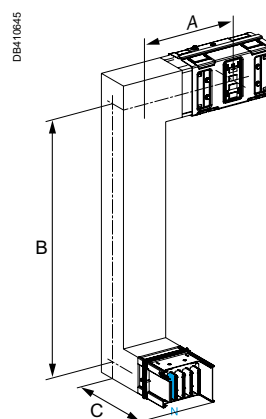
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.  
 See B minimum and maximum.

To order, indicate for example: KSA400DMCK41A, B = 500



KSA100 to 400 DMCK 41A

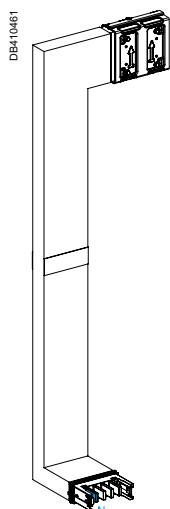


KSA500 to 1000 DMCK 41A

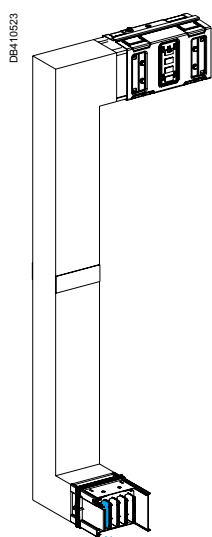
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMCK 41F



KSA500 to 1000 DMCK 41F

**2 turns at 90° - Downward (Edgewise position), then turns left (Flat position)**  
Sides A and C are fixed, Side B is made-to-measure including a fire Barrier

| Cat. n°            | KSA250DMCK41F | KSA400DMCK41F | KSA630DMCK41F  | KSA1000DMCK41F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 1700  | 1150 to 1700  | 1280 to 1800   | 1280 to 1800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

|                       |             |             |             |             |
|-----------------------|-------------|-------------|-------------|-------------|
| A (mm)                | 250         | 250         | 290         | 290         |
| B (mm)                | 700 to 1200 | 700 to 1200 | 700 to 1200 | 700 to 1200 |
| C (mm)                | 200         | 200         | 290         | 290         |
| D (mm)                | -           | -           | -           | -           |
| Fire Barrier          | Yes         | Yes         | Yes         | Yes         |
| Fire Barrier Position | On side B   | On side B   | On side B   | On side B   |

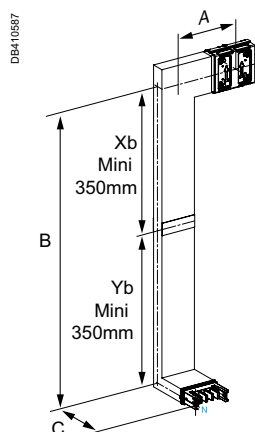
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

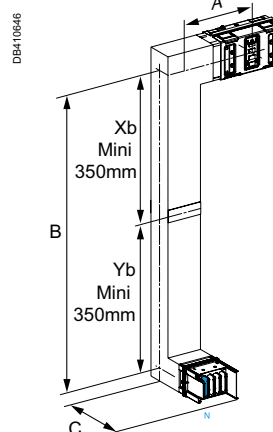
A and C dimensions are fixed. B dimension can be adjusted in increments of 5 mm.

See B minimum and maximum. Fire barrier position on side B is adjustable in increments of 10 mm respecting the Xb and Yb minimum.

To order, indicate for example: KSA400DMCK41F, B = 900, Xb = 500, Yb = 400



KSA100 to 400 DMCK 41F

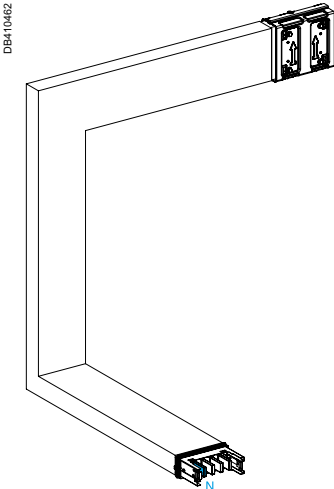


KSA500 to 1000 DMCK 41F

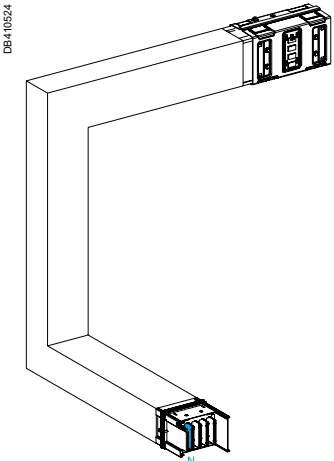
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMCK 43A



KSA500 to 1000 DMCK 43A

2 turns at 90° - Downward (Edgewise position), then turns left (Flat position)  
Sides A, B, C are made-to-measure

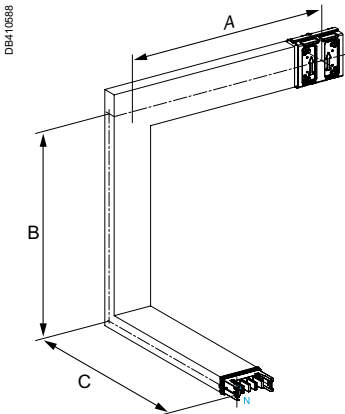
| Cat. n°            | KSA250DMCK43A | KSA400DMCK43A | KSA630DMCK43A  | KSA1000DMCK43A |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 650 to 2250   | 650 to 2250   | 780 to 2400    | 780 to 2400    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 200 to 750 | 200 to 750 | 200 to 800 | 200 to 800 |
| C (mm)                | 200 to 750 | 200 to 750 | 290 to 800 | 290 to 800 |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

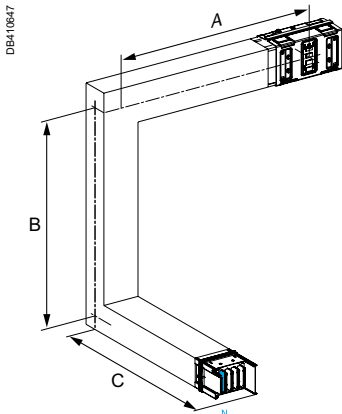
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | -     | -     | -     | -     |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A,B and C minimum and maximum.

To order, indicate for example: KSA400DMCK43A, A = 400, B = 500, C = 600



KSA100 to 400 DMCK 43A

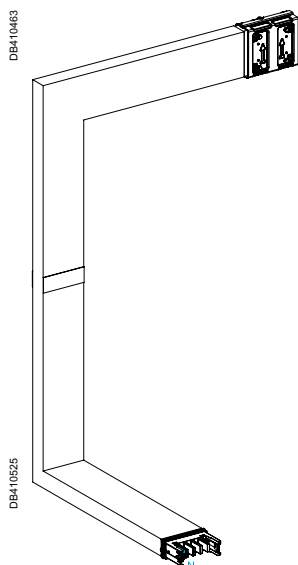


KSA500 to 1000 DMCK 43A

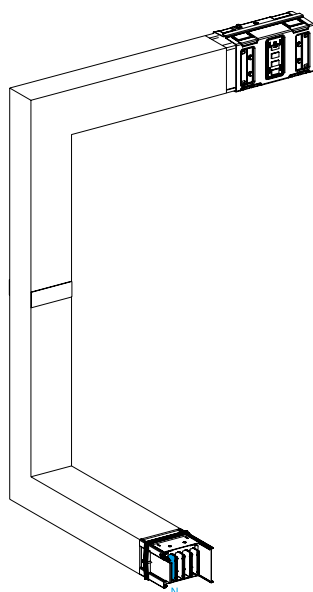
# Advanced offer

## Change direction elements

### Multiples



KSA100 to 400 DMCK 43F



KSA500 to 1000 DMCK 43F

**2 turns at 90° - Downward (Edgewise position), then turns left (Flat position)**  
**Sides A, B, C are made-to-measure including 1 fire Barrier on 1 branche**

| Cat. n°            | KSA250DMCK43F | KSA400DMCK43F | KSA630DMCK43F  | KSA1000DMCK43F |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1150 to 2700  | 1150 to 2700  | 1280 to 2800   | 1280 to 2800   |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

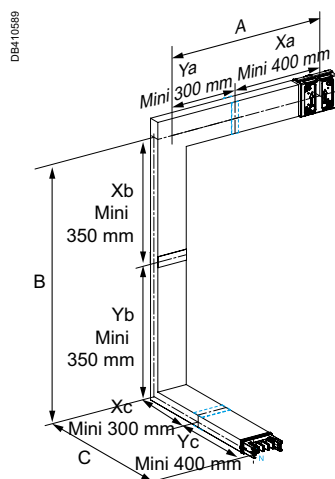
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB | (200 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | (200 to 750) or<br>(700 to 1200) if FB | (200 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B or C             | Either on side A or B or C             | Either on side A or B or C             | Either on side A or B or C             |

#### Additional Characteristics

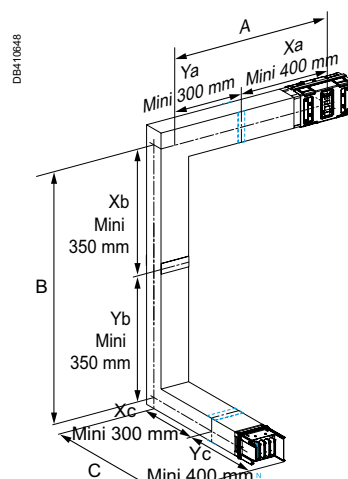
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | -     | -     | -     | -     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A, B and C dimensions can be adjusted in increments of 5 mm. See A, B and C minimum and maximum.  
 One Fire barrier can be positionned either on side A, B or C. Fire barrier position is adjustable in increments of 10 mm respecting the X and Y minimum.

To order, indicate for example: KSA400DMCK43F, A = 400, B = 900, Xb = 450, Yb = 450, C = 600



KSA100 to 400 DMCK 43F

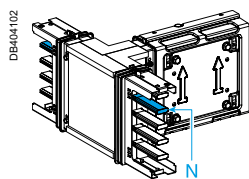


KSA500 to 1000 DMCK 43F

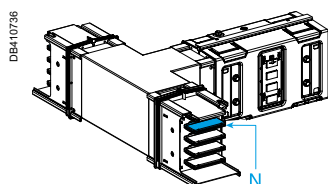
## Advanced offer

## Change direction elements

## Tees and Crosses



KSA100 to 400 DTC 40



KSA500 to 1000 DTC 40

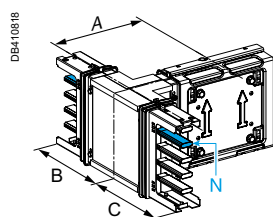
**To connect several lines together**  
**To connect 3 lines**

| Cat. n°            | KSA250DTC40   | KSA400DTC40 | KSA630DTC40    | KSA1000DTC40   |
|--------------------|---------------|-------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 330           | 330         | 580            | 580            |
| Rating (A)         | 250           | 400         | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

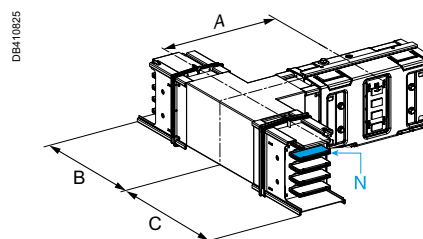
| Dimensions            |     |     |     |     |
|-----------------------|-----|-----|-----|-----|
| A (mm)                | 165 | 165 | 290 | 290 |
| B (mm)                | 165 | 165 | 290 | 290 |
| C (mm)                | 165 | 165 | 290 | 290 |
| D (mm)                | -   | -   | -   | -   |
| Fire Barrier          | No  | No  | No  | No  |
| Fire Barrier Position | -   | -   | -   | -   |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 4,3   | 4,7   | 10    | 10    |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A, B and C dimensions are fixed. Supplied without End covers



KSA100 to 400 DTC 40



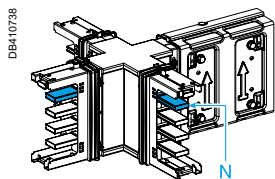
KSA500 to 1000 DTC 40



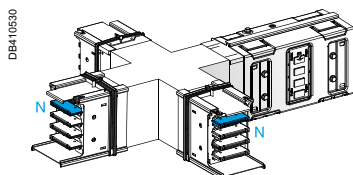
# Advanced offer

## Change direction elements

### Tees and Crosses



KSA100 to 400 DXC 40



KSA500 to 1000 DXC 40

To connect several lines together  
To connect 4 lines

| Cat. n°            | KSA250DXC40   | KSA400DXC40 | KSA630DXC40    | KSA1000DXC40   |
|--------------------|---------------|-------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 330           | 330         | 580            | 580            |
| Rating (A)         | 250           | 400         | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

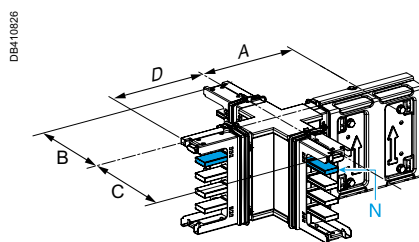
#### Dimensions

|                       |     |     |     |     |
|-----------------------|-----|-----|-----|-----|
| A (mm)                | 165 | 165 | 290 | 290 |
| B (mm)                | 165 | 165 | 290 | 290 |
| C (mm)                | 165 | 165 | 290 | 290 |
| D (mm)                | 165 | 165 | 290 | 290 |
| Fire Barrier          | No  | No  | No  | No  |
| Fire Barrier Position | -   | -   | -   | -   |

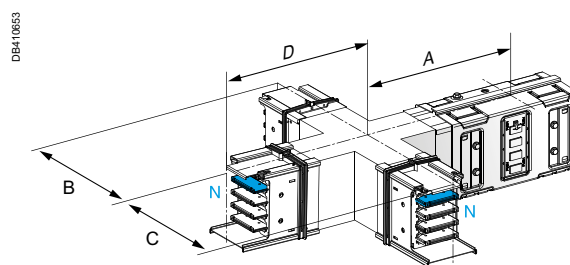
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 4,5   | 7     | 11    | 11,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A, B and C dimensions are fixed. Supplied without End covers



KSA100 to 400 DXC 40

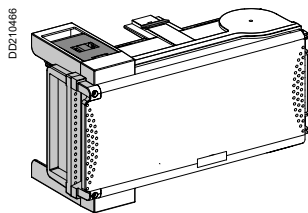


KSA500 to 1000 DXC 40

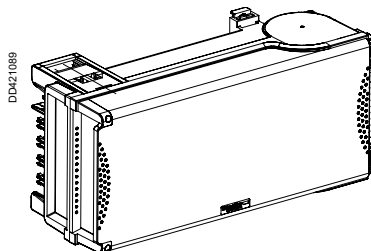
## Advanced offer

## Connectors and Tap-off units

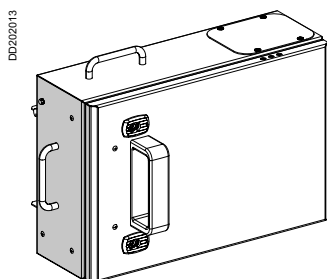
## Disconnection by opening the door



KSB50 SV •



KSB100 SV •



KSB160 SV •

**Delivered with an Isolator, without protection nor mounting plate**  
To be customized

| Cat. n°         | KSB50SV4       | KSB100SV4      | KSB160SV4      |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

| Rating (A)    | 50          | 100         | 160         |
|---------------|-------------|-------------|-------------|
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |

**Cabling**

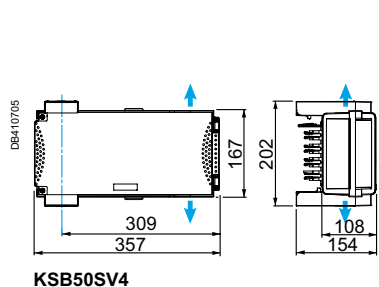
| Protection Type<br>(Not Supplied)              | None - to be selected by the customer                           | None - to be selected by the customer                           | None - to be selected by the customer                           |
|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Body Material                                  | Plastic                                                         | Plastic                                                         | Metal                                                           |
| Cable Output                                   | Cable gland <sup>(2)</sup>                                      | Cable gland <sup>(2)</sup>                                      | 2 lateral 1.5 mm steel cable plates<br>245 x 115                |
| Available Area (mm)                            | 2 x ISO 50 for multipolar cable                                 | 2 x ISO 63 for multipolar cable                                 | 2 x (215 x 185)                                                 |
| Connection                                     | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs |
| Maximum Rigid Cable Size (mm <sup>2</sup> )    | 25                                                              | 35                                                              | 70                                                              |
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | 25                                                              | 35                                                              | 70                                                              |

<sup>(2)</sup> Not included<sup>(2)</sup> Not included

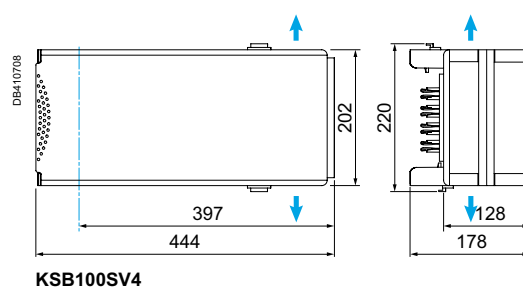
-

**Additional Characteristics**

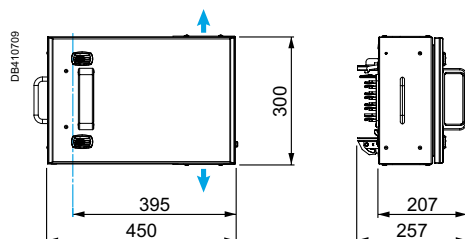
| IP           | IP55  | IP55  | IP55  |
|--------------|-------|-------|-------|
| Color        | White | White | White |
| Weight (kg)  | 1,4   | 2,8   | 9     |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |



KSB50SV4



KSB100SV4



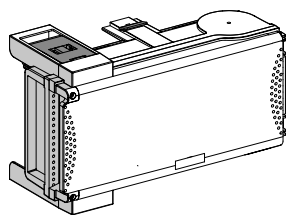
KSB160SV4

# Advanced offer

## Connectors and Tap-off units

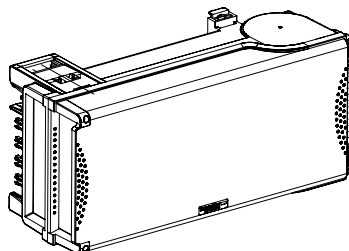
### Disconnection by opening the door

DD210466



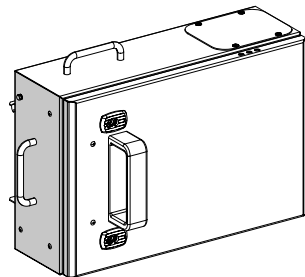
KSB50 SV •

DD210889



KSB100 SV •

DD220213



KSB160 SV •

**Delivered with an Isolator, without protection nor mounting plate**  
To be customized

| Cat. n°         | KSB50SV5       | KSB100SV5      | KSB160SV5      |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA100 to 1000 |

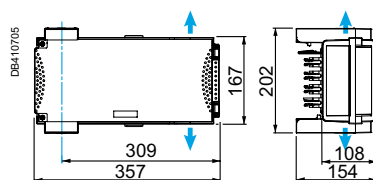
|               |          |          |          |
|---------------|----------|----------|----------|
| Rating (A)    | 50       | 100      | 160      |
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

|                                   |                                                                 |                                                                 |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Cabling</b>                    |                                                                 |                                                                 |                                                                 |
| Protection Type (Not Supplied)    | None - to be selected by the customer                           | None - to be selected by the customer                           | None - to be selected by the customer                           |
| Body Material                     | Plastic                                                         | Plastic                                                         | Metal                                                           |
| Cable Output                      | Cable gland <sup>(2)</sup>                                      | Cable gland <sup>(2)</sup>                                      | 2 lateral 1.5 mm steel cable plates 245 x 115                   |
| Available Area (mm)               | 2 x ISO 50 for multipolar cable                                 | 2 x ISO 63 for multipolar cable                                 | 2 x (215 x 185)                                                 |
| Connection                        | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs | Silver-plated copper terminals (M6) for Copper compression lugs |
| Maximum Rigid Cable Size (mm²)    | 25                                                              | 35                                                              | 70                                                              |
| Maximum Flexible Cable Size (mm²) | 25                                                              | 35                                                              | 70                                                              |

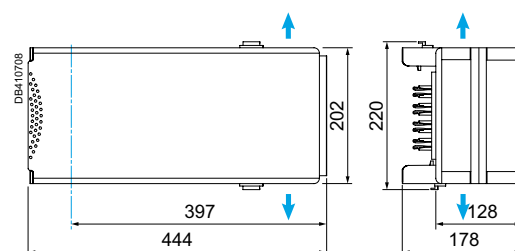
<sup>(2)</sup> Not included<sup>(2)</sup> Not included

-

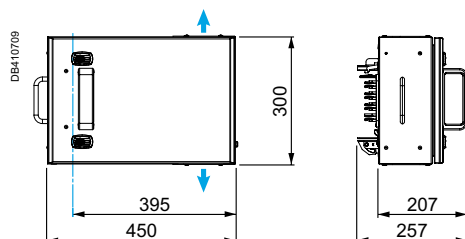
|                                   |       |       |       |
|-----------------------------------|-------|-------|-------|
| <b>Additional Characteristics</b> |       |       |       |
| IP                                | IP55  | IP55  | IP55  |
| Color                             | White | White | White |
| Weight (kg)                       | 1,4   | 2,8   | 9     |
| Selling Unit                      | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 1     |



KSB50 SV •



KSB100 SV •

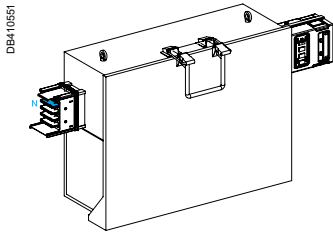


KSB160 SV •

# Advanced offer

## Connectors and Tap-off units

### Disconnection by opening the door



KSB630 SE •

Delivered equipped with a fuse holder  
For Blade-type fuses <sup>(1)</sup>

| Cat. n°         | KSB630SE4      | KSB630SE5      |
|-----------------|----------------|----------------|
| Compatible with | KSA500 to 1000 | KSA500 to 1000 |

|               |             |          |
|---------------|-------------|----------|
| Rating (A)    | 630         | 630      |
| Polarity      | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |

|                                |              |              |
|--------------------------------|--------------|--------------|
| Cabling                        |              |              |
| Protection Type (Not Supplied) | Fuses Size 3 | Fuses Size 3 |

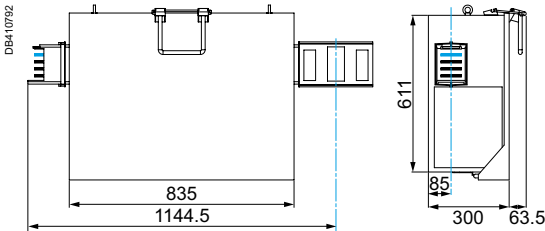
|                                   |                                                       |                                                       |
|-----------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Body Material                     | Metal                                                 | Metal                                                 |
| Cable Output                      | 2 lateral 3mm Alu.<br>Cable plates 300 x 252          | 2 lateral 3mm Alu.<br>Cable plates 300 x 252          |
| Available Area (mm)               | 250 x 180                                             | 250 x 180                                             |
| Connection                        | Copper plate with 2 x M10 for Copper compression lugs | Copper plate with 2 x M10 for Copper compression lugs |
| Maximum Rigid Cable Size (mm²)    | 2 x 240 mm²                                           | 2 x 240 mm²                                           |
| Maximum Flexible Cable Size (mm²) | 2 x 240 mm²                                           | 2 x 240 mm²                                           |

<sup>(1)</sup> Not included      <sup>(1)</sup> Not included

|                            |       |       |
|----------------------------|-------|-------|
| Additional Characteristics |       |       |
| IP                         | IP55  | IP55  |
| Color                      | White | White |
| Weight (kg)                | 55    | 57    |
| Selling Unit               | 1     | 1     |
| MOQ                        | 1     | 1     |

Supplied with 2 end covers and a jointing unit 800/1000A.

Rating: apply a derating coefficient of 0.9



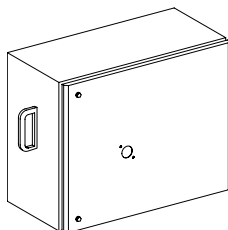
KSB630 SE •

# Advanced offer

## Connectors and Tap-off units

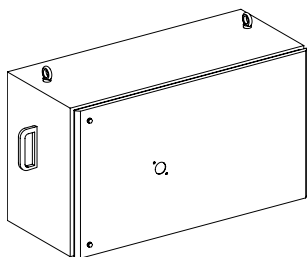
### Switching with an extended rotary handle located on the door

DB410722



KSB250 SDF •

DB410723



KSB400 SDF •

Delivered equipped with a mounting plate for 1 fuse switch-disconnector  
For Fupact INF

| Cat. n°         | KSB250SDF4     | KSB250SDF5     | KSB400SDF4     | KSB400SDF5     |
|-----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 | KSA500 to 1000 |

|               |             |          |             |          |
|---------------|-------------|----------|-------------|----------|
| Rating (A)    | 250         | 250      | 400         | 400      |
| Polarity      | 3L + N + PE | 3L + PEN | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |             |          |

|                                |                                              |                                              |                                              |                                              |
|--------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| <b>Cabling</b>                 |                                              |                                              |                                              |                                              |
| Protection Type (Not Supplied) | Fupact INF250 or INF250                      | Fupact INF250 or INF250                      | Fupact INF400 or INF400                      | Fupact INF400 or INF400                      |
| Body Material                  | Metal                                        | Metal                                        | Metal                                        | Metal                                        |
| Cable Output                   | 1 rear 1.5 mm steel cable plate<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 |
| Available Area (mm)            | 215 x 100                                    | 215 x 100                                    | 315 x 100                                    | 315 x 100                                    |
| Connection                     | Fupact INF terminals                         | Fupact INF terminals                         | Fupact INF terminals                         | Fupact INF terminals                         |

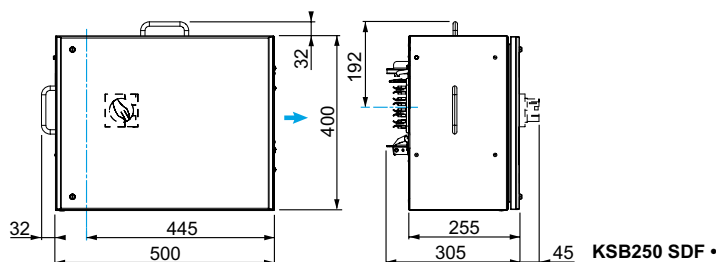
|                                   |                        |                                      |                        |                                      |
|-----------------------------------|------------------------|--------------------------------------|------------------------|--------------------------------------|
| Maximum Rigid Cable Size (mm²)    | See Fupact INF Catalog | See Fupact INF Catalog               | See Fupact INF Catalog | See Fupact INF Catalog               |
| Maximum Flexible Cable Size (mm²) | See Fupact INF catalog | See Fupact INF catalog               | See Fupact INF catalog | See Fupact INF catalog               |
|                                   | INF250 4P 3F: LV480518 | INF250 3P 3F: LV480517 + N: LV480562 | INF400 4P 3F: LV480520 | INF400 3P 3F: LV480519 + N: LV480563 |
|                                   | INF250 4P 3F: LV480504 | INF250 3P 3F: LV48050 + N: LV480562  | INF400 4P 3F: LV480507 | INF400 3P 3F: LV480506 + N: LV480563 |

|                                   |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| <b>Additional Characteristics</b> |       |       |       |       |
| IP                                | IP55  | IP55  | IP55  | IP55  |
| Color                             | White | White | White | White |
| Weight (kg)                       | 13    | 13    | 20    | 20    |
| Selling Unit                      | 1     | 1     | 1     | 1     |
| MOQ                               | 1     | 1     | 16    | 1     |

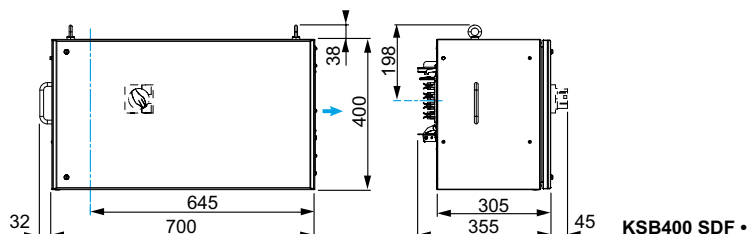
INF•250: Extended rotary handle 49619

INF•400: Extended rotary handle LV480540

DB413055



DB413056

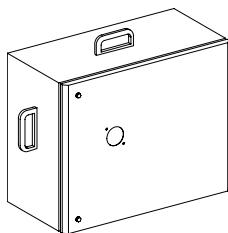


## Advanced offer

## Connectors and Tap-off units

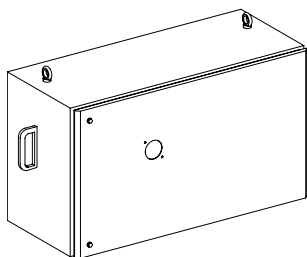
## Switching with an extended rotary handle located on the door

DB410719



KSB250 DC TRE

DB410720



KSB400 DC TRE

**Delivered equipped with a mounting plate for 1 Circuit Breaker + 1 Current transformer module  
For NSX Circuit breaker + Current transformer module**

| Cat. n°         | KSB250DC4TRE   | KSB250DC5TRE   | KSB400DC4TRE   | KSB400DC5TRE   |
|-----------------|----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 | KSA500 to 1000 |

| Rating (A)    | 250         | 250      | 400         | 400      |
|---------------|-------------|----------|-------------|----------|
| Polarity      | 3L + N + PE | 3L + PEN | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |             |          |

| Cabling                        |                  |                  |                  |                  |
|--------------------------------|------------------|------------------|------------------|------------------|
| Protection Type (Not Supplied) | NSX250 - N, H, L | NSX250 - N, H, L | NSX400 - N, H, L | NSX400 - N, H, L |

| Body Material       | Metal                                        | Metal                                        | Metal                                        | Metal                                        |
|---------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
| Cable Output        | 1 rear 1.5 mm steel cable plate<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>245 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 | 1 rear 1.5 mm steel cable plate<br>345 x 130 |
| Available Area (mm) | 215 x 100                                    | 215 x 100                                    | 315 x 100                                    | 315 x 100                                    |

| Connection | On NSX CT bloc terminals | On NSX CT bloc terminals | On NSX CT bloc terminals | On NSX CT bloc terminals |
|------------|--------------------------|--------------------------|--------------------------|--------------------------|
|------------|--------------------------|--------------------------|--------------------------|--------------------------|

| Maximum Rigid Cable Size (mm²) | See NSX catalog | See NSX catalog | See NSX catalog | See NSX catalog |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|
|--------------------------------|-----------------|-----------------|-----------------|-----------------|

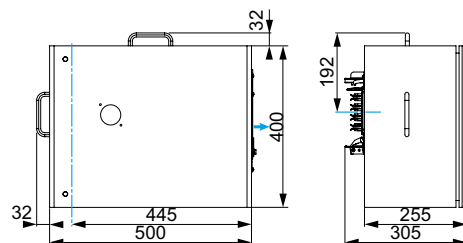
| Maximum Flexible Cable Size (mm²) | See NSX catalog | See NSX catalog | See NSX catalog | See NSX catalog |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|

|                                            |                                            |                                            |                                            |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| NSX250: Extended rotary handle<br>LV429338 | NSX250: Extended rotary handle<br>LV429338 | NSX400: Extended rotary handle<br>LV432598 | NSX400: Extended rotary handle<br>LV432598 |
| CT Module 4P 250A: LV431568                | CT Module 3P 250A: LV431567                | CT Module 4P 400A: LV432658                | CT Module 4P 400A: LV432657                |

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 21    | 13,5  | 20    | 19,5  |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

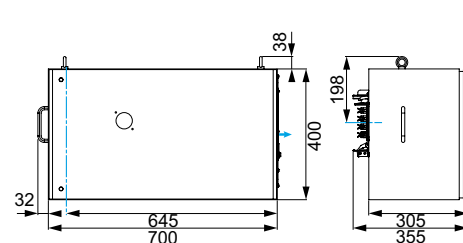
Tap-off units equipped with an additional support for the CT module

DB410854



KSB250 DC TRE

DB410855

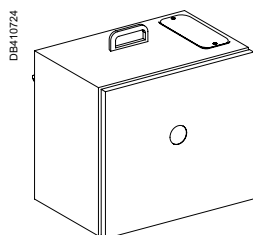


KSB400 DC TRE

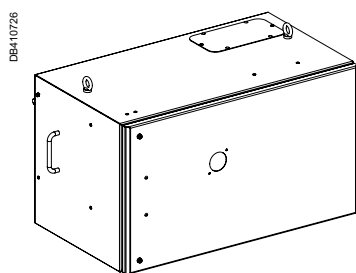
# Advanced offer

## Connectors and Tap-off units

### Switching with an extended rotary handle located on the door



KSB160 DD 4



KSB400 DD 4

**Delivered equipped with a plug-in base for 1 Circuit Breaker  
For NSX Circuit Breaker PLUG-IN**

| Cat. n°         | KSB160DD411    | KSB400DD411    |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA500 to 1000 |

|               |             |             |
|---------------|-------------|-------------|
| Rating (A)    | 160         | 400         |
| Polarity      | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |

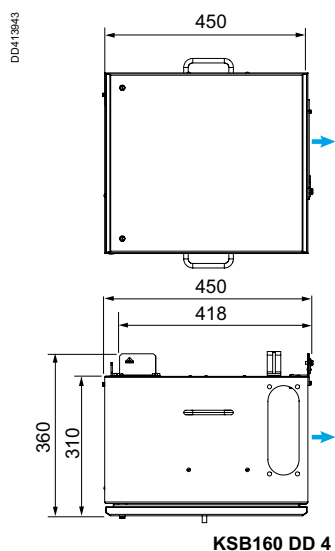
|                                   |                                 |                                 |
|-----------------------------------|---------------------------------|---------------------------------|
| <b>Cabling</b>                    |                                 |                                 |
| Protection Type<br>(Not Supplied) | NSX160 plug-in<br>Curve N, H, L | NSX400 plug-in<br>Curve N, H, L |

|                        |                                                |                                                        |
|------------------------|------------------------------------------------|--------------------------------------------------------|
| Body Material          | Metal                                          | Metal                                                  |
| Cable Output           | 2 lateral 1.5 mm<br>FL21 cable gland<br>plates | 1 rear 1.5 mm steel<br>cable plate +<br>2 lateral FL21 |
| Available<br>Area (mm) | 2 x FL21<br>(198 x 69)                         | 315 x 100 +<br>2 x FL21 (198 x 69)                     |
| Connection             | NSX Terminals                                  | NSX Terminals                                          |

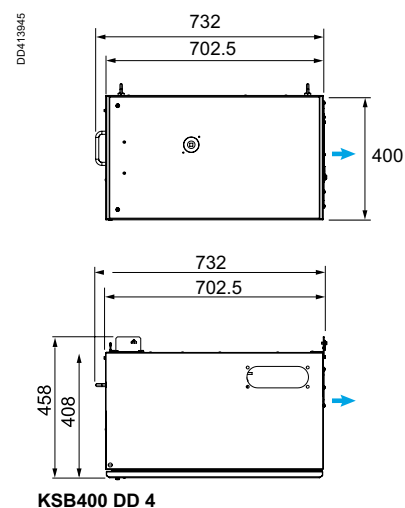
|                                      |                 |                 |
|--------------------------------------|-----------------|-----------------|
| Maximum Rigid<br>Cable Size (mm²)    | See NSX catalog | See NSX catalog |
| Maximum Flexible<br>Cable Size (mm²) | See NSX Catalog | See NSX catalog |

|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| NSX250: Extended<br>rotary handle<br>LV429338 | NSX400: Extended<br>rotary handle<br>LV432598 |
|-----------------------------------------------|-----------------------------------------------|

|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Additional Characteristics</b> |       |       |
| IP                                | IP55  | IP55  |
| Color                             | White | White |
| Weight (kg)                       | 15    | 23,6  |
| Selling Unit                      | 1     | 1     |
| MOQ                               | 1     | 1     |



KSB160 DD 4

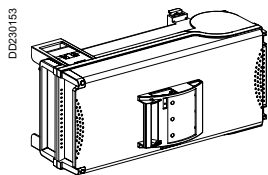


KSB400 DD 4

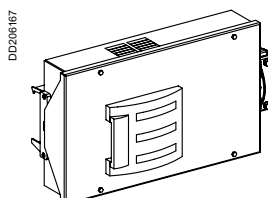
## Advanced offer

## Connectors and Tap-off units

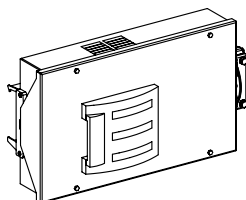
## Disconnection by operating the fuse-switch disconnecter



KSB125HD5



KSA25HD502



KSA40HD502

**Delivered equipped with a fuse-switch disconnecter**  
**With Fupact ISFT for DIN fuses**

| Cat. n°         | KSB125HD5      | KSA25HD502     | KSA40HD502     |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 125      | 250      | 400      |
|---------------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

| Cabling         |     |      |     |
|-----------------|-----|------|-----|
| Protection Type | NH2 | NH00 | NH1 |
| (Not Supplied)  |     |      |     |

|               |                            |       |       |
|---------------|----------------------------|-------|-------|
| Body Material | Plastic                    | Metal | Metal |
| Cable Output  | Cable gland <sup>(2)</sup> | -     | -     |

|                     |                                 |   |   |
|---------------------|---------------------------------|---|---|
| Available Area (mm) | 2 x ISO 63 for multipolar cable | - | - |
|---------------------|---------------------------------|---|---|

|            |                       |                       |                       |
|------------|-----------------------|-----------------------|-----------------------|
| Connection | Fupact ISFT terminals | Fupact ISFT terminals | Fupact ISFT terminals |
|------------|-----------------------|-----------------------|-----------------------|

|                                             |                  |                  |                  |
|---------------------------------------------|------------------|------------------|------------------|
| Maximum Rigid Cable Size (mm <sup>2</sup> ) | See ISFT catalog | See ISFT catalog | See ISFT catalog |
|---------------------------------------------|------------------|------------------|------------------|

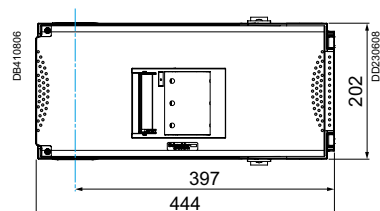
|                                                |                  |                  |                  |
|------------------------------------------------|------------------|------------------|------------------|
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | See ISFT catalog | See ISFT catalog | See ISFT catalog |
|------------------------------------------------|------------------|------------------|------------------|

<sup>(2)</sup> Not included

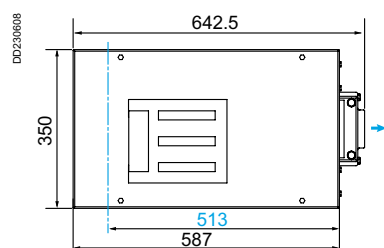
## Additional Characteristics

|              |       |       |       |
|--------------|-------|-------|-------|
| IP           | IP20  | IP20  | IP20  |
| Color        | White | White | White |
| Weight (kg)  | 3,6   | 9     | 12    |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |

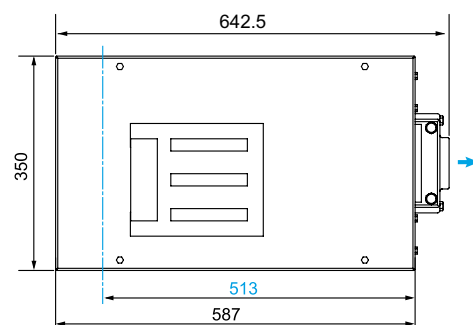
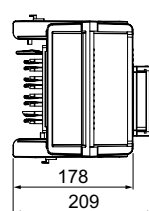
Available up to end of 2018



KSB125HD5



KSB40HD502



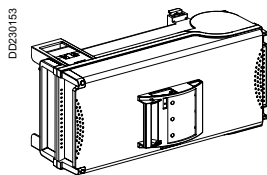
KSA25HD502



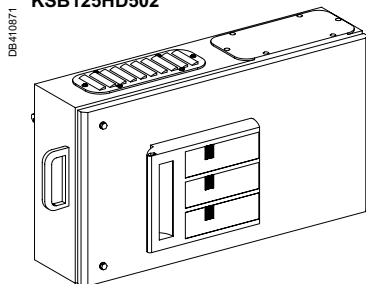
# Advanced offer

## Connectors and Tap-off units

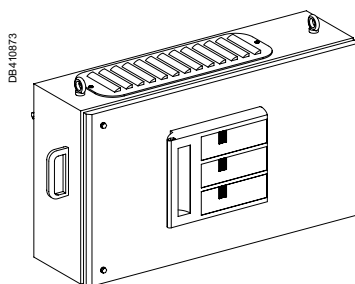
### Disconnection by operating the fuse-switch disconnecter



KSB125HD502



KSB250HD502



KSB400HD502

**Delivered equipped with a fuse-switch disconnecter**  
**With Fupact ISFT for DIN fuses**

| Cat. n°         | KSB125HD502    | KSB250HD502    | KSB400HD502    |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 125      | 200      | 320      |
|---------------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

| Cabling         |     |      |     |
|-----------------|-----|------|-----|
| Protection Type | NH2 | NH00 | NH1 |
| (Not Supplied)  |     |      |     |

|               |                            |       |       |
|---------------|----------------------------|-------|-------|
| Body Material | Plastic                    | Metal | Metal |
| Cable Output  | Cable gland <sup>(2)</sup> | -     | -     |

|                     |                                 |   |   |
|---------------------|---------------------------------|---|---|
| Available Area (mm) | 2 x ISO 63 for multipolar cable | - | - |
|---------------------|---------------------------------|---|---|

|            |                       |                       |                       |
|------------|-----------------------|-----------------------|-----------------------|
| Connection | Fupact ISFT terminals | Fupact ISFT terminals | Fupact ISFT terminals |
|------------|-----------------------|-----------------------|-----------------------|

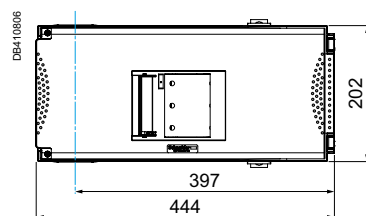
|                                             |                  |                  |                  |
|---------------------------------------------|------------------|------------------|------------------|
| Maximum Rigid Cable Size (mm <sup>2</sup> ) | See ISFT catalog | See ISFT catalog | See ISFT catalog |
|---------------------------------------------|------------------|------------------|------------------|

|                                                |                  |                  |                  |
|------------------------------------------------|------------------|------------------|------------------|
| Maximum Flexible Cable Size (mm <sup>2</sup> ) | See ISFT catalog | See ISFT catalog | See ISFT catalog |
|------------------------------------------------|------------------|------------------|------------------|

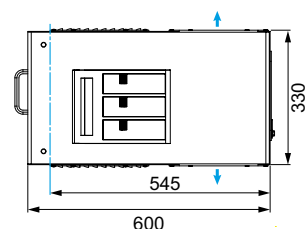
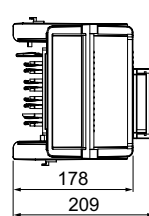
<sup>(2)</sup> Not included

#### Additional Characteristics

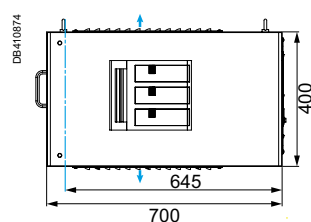
|              |       |       |       |
|--------------|-------|-------|-------|
| IP           | IP20  | IP20  | IP20  |
| Color        | White | White | White |
| Weight (kg)  | 3,6   | 9     | 12    |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |



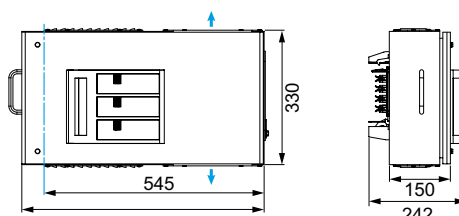
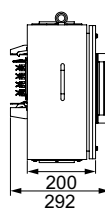
KSB125HD502



KSB250HD502



KSA400HD502

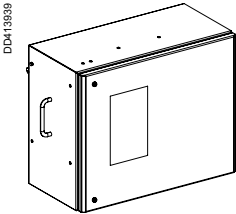


KSB400HD502

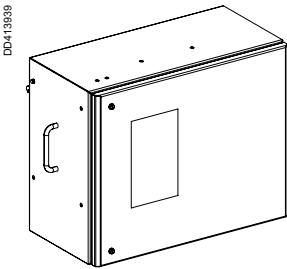
Advanced offer

Connectors and Tap-off units

Switching with an Electrical handle



KSB160 and 250 DB 4

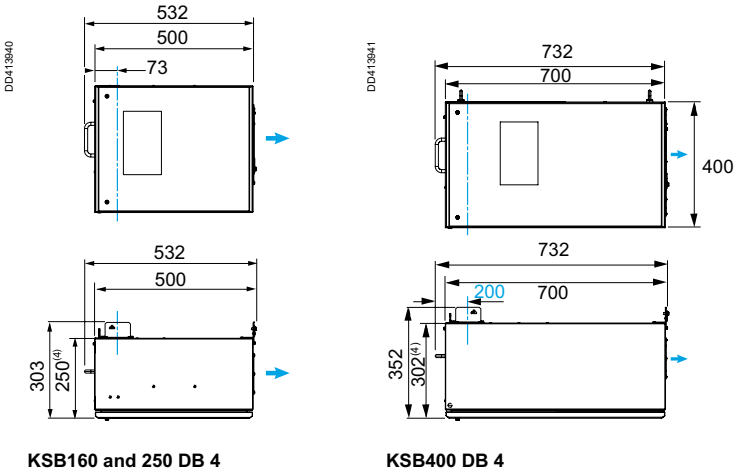


KSB400 DB 4

Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NSX Circuit breaker with Electrical handle

| Cat. n°                              | KSB160DB412                                     | KSB250DB412      | KSB400DB412                                     |
|--------------------------------------|-------------------------------------------------|------------------|-------------------------------------------------|
| Compatible with                      | KSA100 to 1000                                  | KSA100 to 1000   | KSA500 to 1000                                  |
| Rating (A)                           | 160                                             | 250              | 400                                             |
| Polarity                             | 3L + N + PE                                     | 3L + N + PE      | 3L + N + PE                                     |
| Phase Diagram                        |                                                 |                  |                                                 |
| <b>Cabling</b>                       |                                                 |                  |                                                 |
| Protection Type<br>(Not Supplied)    | NSX160 - N, H, L                                | NSX250 - N, H, L | NSX400 - N, H, L                                |
| Body Material                        | Metal                                           | Metal            | Metal                                           |
| Cable Output                         | 1 rear 1.5 mm steel<br>cable plate<br>245 x 130 | -                | 1 rear 1.5 mm steel<br>cable plate<br>345 x 130 |
| Available<br>Area (mm)               | 215 x 100                                       | -                | 315 x 100                                       |
| Connection                           | NSX Terminals                                   | NSX Terminals    | NSX Terminals                                   |
| Maximum Rigid<br>Cable Size (mm²)    | See NSX catalog                                 | See NSX catalog  | See NSX catalog                                 |
| Maximum Flexible<br>Cable Size (mm²) | See NSX catalog                                 | See NSX catalog  | See NSX catalog                                 |
| Electrical handle                    | LV4294**                                        | LV4294**         | LV4315**                                        |

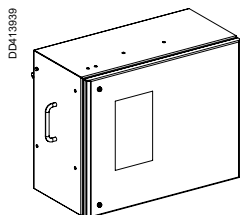
| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 11    | 16    | 13,3  |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |



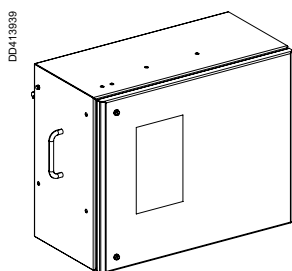
# Advanced offer

## Connectors and Tap-off units

### Switching with an Electrical handle



KSB160 and 250 DB 5



KSB400 DB 5

**Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NSX Circuit breaker with Electrical handle**

| Cat. n°         | KSB160DB512    | KSB250DB512    | KSB400DB512    |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 | KSA500 to 1000 |

| Rating (A)    | 160      | 250      | 400      |
|---------------|----------|----------|----------|
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |

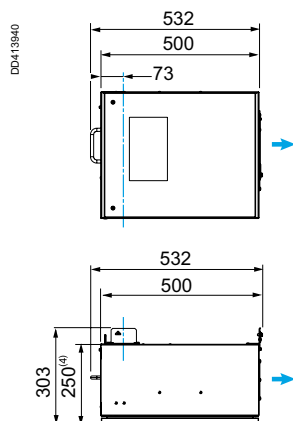
| Cabling                        |                  |                  |                  |
|--------------------------------|------------------|------------------|------------------|
| Protection Type (Not Supplied) | NSX160 - N, H, L | NSX250 - N, H, L | NSX400 - N, H, L |

| Body Material       | Metal                                        | Metal         | Metal                                        |
|---------------------|----------------------------------------------|---------------|----------------------------------------------|
| Cable Output        | 1 rear 1.5 mm steel cable plate<br>245 x 130 | -             | 1 rear 1.5 mm steel cable plate<br>345 x 130 |
| Available Area (mm) | 215 x 100                                    | -             | 315 x 100                                    |
| Connection          | NSX Terminals                                | NSX Terminals | NSX Terminals                                |

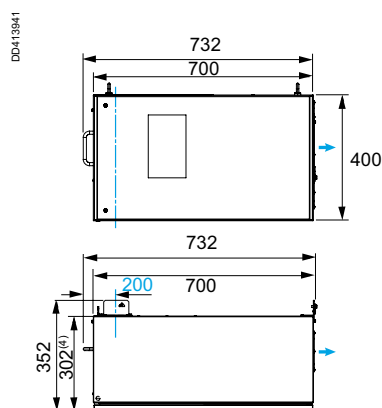
| Maximum Rigid Cable Size (mm²)    | See NSX catalog | See NSX catalog | See NSX catalog |
|-----------------------------------|-----------------|-----------------|-----------------|
| Maximum Flexible Cable Size (mm²) | See NSX catalog | See NSX catalog | See NSX catalog |

|                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| Electrical handle<br>LV4294** | Electrical handle<br>LV4294** | Electrical handle<br>LV4315** |
|-------------------------------|-------------------------------|-------------------------------|

| Additional Characteristics |       |       |       |
|----------------------------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  |
| Color                      | White | White | White |
| Weight (kg)                | 11    | 16    | 22    |
| Selling Unit               | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     |



KSB160 and 250 DB 5



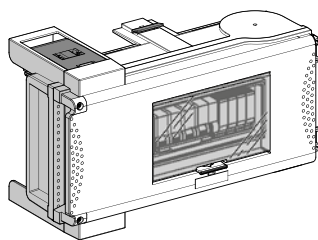
KSB400 DB 5

## Advanced offer

## Connectors and Tap-off units

## Tap-off units Equipped with a Surge Arrester

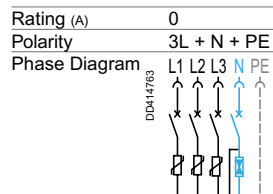
DD205754



KSBQPRD

**Delivered equipped with a Surge arrester**  
**For line protection against Surge**

|                 |                |
|-----------------|----------------|
| <b>Cat. n°</b>  | <b>KSBQPRD</b> |
| Compatible with | KSA100 to 1000 |

**Cabling**

|                        |              |
|------------------------|--------------|
| <b>Protection Type</b> | Quick PRD40r |
| (Not Supplied)         |              |

|                      |         |
|----------------------|---------|
| <b>Body Material</b> | Plastic |
| <b>Cable Output</b>  | No need |

|                            |         |
|----------------------------|---------|
| <b>Available Area (mm)</b> | No need |
|----------------------------|---------|

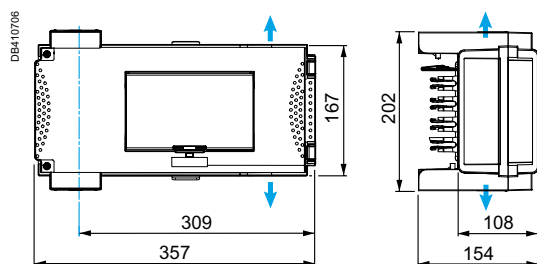
|                   |         |
|-------------------|---------|
| <b>Connection</b> | No need |
|-------------------|---------|

|                                          |         |
|------------------------------------------|---------|
| <b>Maximum Rigid Cable Size (mm²)</b>    | No need |
| <b>Maximum Flexible Cable Size (mm²)</b> | No need |

|                  |
|------------------|
| Surge arrester   |
| 3P + N, cat. no. |
| 16294            |

**Additional Characteristics**

|                     |       |
|---------------------|-------|
| <b>IP</b>           | IP55  |
| <b>Color</b>        | White |
| <b>Weight (kg)</b>  | 3,4   |
| <b>Selling Unit</b> | 1     |
| <b>MOQ</b>          | 1     |

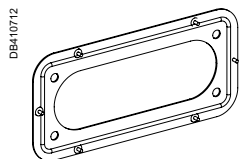


KSBQPRD

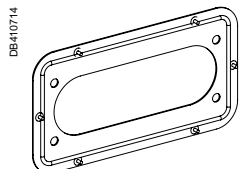
# Advanced offer

## Connectors and Tap-off units (Accessories)

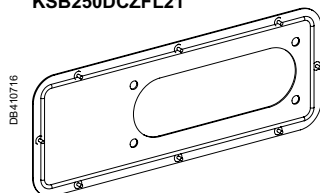
### Accessories for tap-off units



KSB160SFZFL21



KSB250DCZFL21



KSB400DCZFL21

#### Plate for FL21 flexible cable gland Plate for tap-off units, compatible with FL21 flexible cable gland

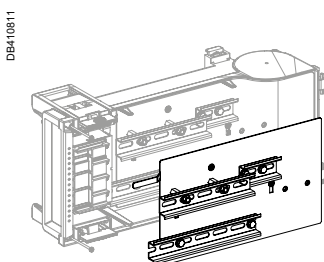
| Cat. n°         | KSB160SFZFL21 | KSB250DCZFL21 | KSB400DCZFL21 |
|-----------------|---------------|---------------|---------------|
| Compatible with | KSB160 SF     | KSB250 DC     | KSB400 DC     |
| Rating (A)      | 160           | 250           | 400           |
| Polarity        | -             | -             | -             |

#### Additional Characteristics

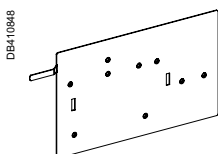
|              |       |       |       |
|--------------|-------|-------|-------|
| IP           | -     | -     | -     |
| Color        | White | White | White |
| Weight (kg)  | 0,4   | 0,35  | 0,422 |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |

FL21 cable gland can be found on [schneider-electric.com](http://schneider-electric.com)

### Accessories for tap-off units



KSB63PMP



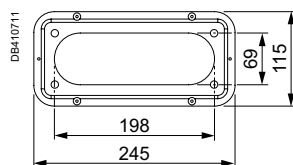
KSB63EGP

#### Accessories Accessories for metering devices

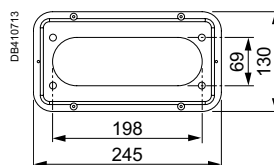
| Cat. n°         | KSB63PMP  | KSB63EGP  |
|-----------------|-----------|-----------|
| Compatible with | KSB100SV• | KSB63SM•8 |
| Rating (A)      | 0         | 0         |
| Polarity        | -         | -         |

#### Additional Characteristics

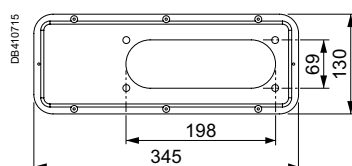
|              |       |       |
|--------------|-------|-------|
| IP           | IP55  | IP55  |
| Color        | White | White |
| Weight (kg)  | 1,06  | 0,4   |
| Selling Unit | 1     | 1     |
| MOQ          | 12    | 5     |



KSB160SFZFL21



KSB250DCZFL21

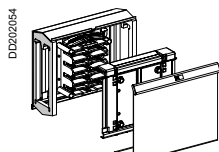


KSB400DCZFL21

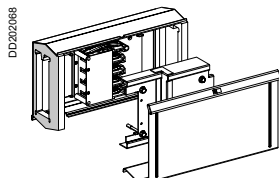
## Advanced offer

## Accessories

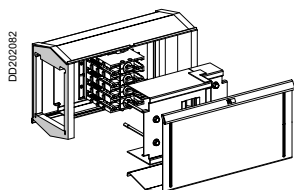
## For current KS offer



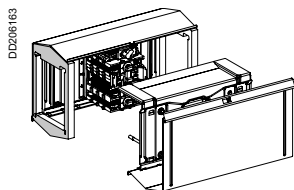
KSA250FA4



KSA400FA4



KSA500FA4



KSA800FA4

## Jointing units

## Adapters - Jointing units - From former KS to current KS

| Cat. n°         | KSA250FA4     | KSA400FA4     | KSA500FA4   | KSA800FA4     |
|-----------------|---------------|---------------|-------------|---------------|
| Compatible with | KSA100 to 250 | KSA100 to 400 | KSA500      | KSA500 to 800 |
| Rating (A)      | 250           | 400           | 500         | 800           |
| Polarity        | 3L + N + PE   | 3L + N + PE   | 3L + N + PE | 3L + N + PE   |

## Characteristics

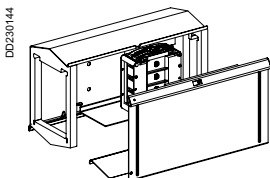
|                                          |                                  |                                  |                                      |
|------------------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| To connect former KS100/250 to KS100/250 | To connect former KS400 to KS400 | To connect former KS500 to KS500 | To connect former KS800 to KS630/800 |
|------------------------------------------|----------------------------------|----------------------------------|--------------------------------------|

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 2,7   | 4,5   | 3,65  | 7,3   |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

See description next pages

## For current KS offer



KSA500FR425

## Jointing units

## Adapter - Jointing unit - From KS 400 to KS 500/1000A

| Cat. n°         | KSA500FR425    |
|-----------------|----------------|
| Compatible with | KSA500 to 1000 |
| Rating (A)      | 1000           |
| Polarity        | 3L + N + PE    |

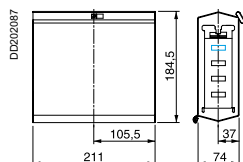
## Characteristics

To connect KS400 to KS500/1000

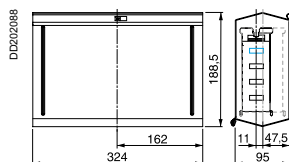
## Additional Characteristics

|              |       |
|--------------|-------|
| IP           | IP55  |
| Color        | White |
| Weight (kg)  | 5     |
| Selling Unit | 1     |
| MOQ          | 1     |

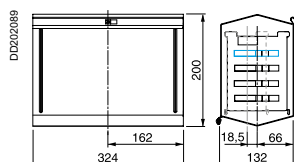
See description next pages



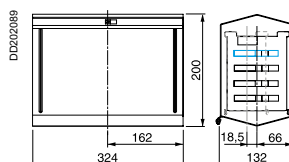
KSA250FA4



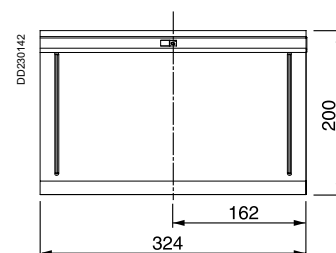
KSA400FA4



KSA500FA4



KSA800FA4

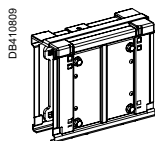


KSA500FR425

## Advanced offer

## Accessories

## For former KS offer



KSB25YA4

## End covers and Jointing units

Former End covers and Former Jointing unit for KS 100 to 250A

|                 |                 |
|-----------------|-----------------|
| <b>Cat. n°</b>  | <b>KSB25YA4</b> |
| Compatible with | KSA100 to 250   |
| Rating (A)      | 250             |
| Polarity        | -               |

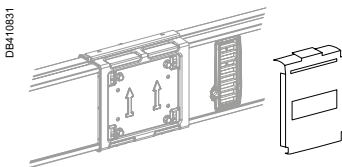
## Characteristics

Jointing unit for  
former KS250

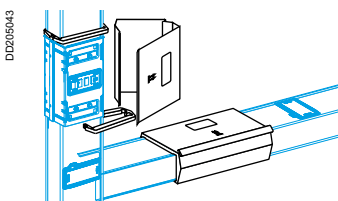
## Additional Characteristics

|                            |       |
|----------------------------|-------|
| IP                         | IP55  |
| Color                      | White |
| Weight (kg)                | 1,19  |
| Selling Unit               | 1     |
| MOQ                        | 1     |
| See description next pages |       |

## For former KS offer



KSE80YB2



KSE50YA2

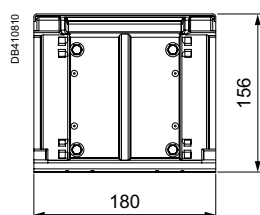
## Blanking plate and Sprinkler Kit

Former IP54 blanking plate for outlets and Sprinkler proofing accessory

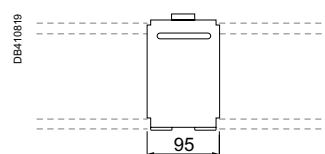
|                 |                 |                 |
|-----------------|-----------------|-----------------|
| <b>Cat. n°</b>  | <b>KSE80YB2</b> | <b>KSE50YA2</b> |
| Compatible with | KSA500 to 1000  | KSA500          |
| Rating (A)      | 0               | 0               |
| Polarity        | -               | -               |

## Additional Characteristics

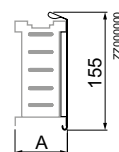
|              |       |       |
|--------------|-------|-------|
| IP           | IP55  | IP55  |
| Color        | White | White |
| Weight (kg)  | 0,145 | 2,1   |
| Selling Unit | 1     | 1     |
| MOQ          | 10    | 1     |



KSB25YA4



KSE80YB2

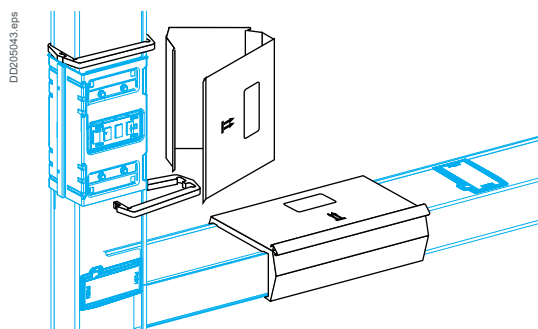






# Description Accessories

## From 100 to 1000 A



### Selection guide of adapters and jointing units

| Cat. no.                   | Line (A)  |      | Power |
|----------------------------|-----------|------|-------|
|                            | Beginning | End  |       |
| KSA250ZJ4                  | 100       | 160  | 100   |
|                            |           | 250  | 100   |
|                            | 160       | 100  | 100   |
|                            |           | 250  | 160   |
|                            | 250       | 100  | 100   |
|                            |           | 160  | 160   |
| KSA1000ZJ4                 | 1000      | 800  | 800   |
|                            | 800       | 1000 | 800   |
| KSA630ZJ4 or<br>KSA1000ZJ4 | 500       | 630  | 500   |
|                            |           | 800  | 500   |
|                            |           | 1000 | 500   |
|                            | 630       | 500  | 500   |
|                            |           | 800  | 630   |
|                            |           | 1000 | 630   |
|                            | 800       | 500  | 500   |
|                            |           | 630  | 630   |
|                            | 1000      | 500  | 500   |
|                            |           | 630  | 630   |
| KSA500FR425                | 400       | 500  | 400   |
|                            |           | 630  | 630   |
|                            |           | 800  | 800   |
|                            |           | 1000 | 1000  |
|                            | 500       | 400  | 400   |
|                            | 630       | 400  | 400   |
|                            | 800       | 400  | 400   |
|                            | 1000      | 400  | 400   |

### Lead-sealing system

This prohibits access to live parts. Two systems are available: one is installed either on the power supply box or on the busbar connector, and the other on the tap-off points.

### Spare parts

#### Sprinkler kit

To comply with the sprinkler tests (guaranteeing operation under vertically and horizontally sprayed water for 50 minutes), each electrical jointing system should be fitted with a reinforced protection kit (the jointing sleeve).

#### Separate parts

Electrical and mechanical connecting plates  
These are blocks fitted with elastic contacts in silver-plated copper. They automatically provide electrical connection of all conductors.

#### IP55 plugs

These plugs protect the busbar trunking tap-off points.

### Adapters

These parts allow Canalis KS busbar trunking to be connected to previous KS generation busbar trunking.

### Reducer element

These part allow connection of KS busbar trunking of different sizes and ratings (Size 1 = from 100 to 400 A; Size 3 = from 500 to 1000 A).

### Protection end-pieces

The protection end-pieces insulate and protect the connectors at the end of busbar trunking. They are installed on the last busbar trunking of the distribution line.

# Canalis KS range

## Rising main offer

A dedicated range for vertical runs

---

|                                        |          |
|----------------------------------------|----------|
| Description.....                       | page 171 |
| Overview .....                         | page 174 |
| Commercial numbers and dimensions..... | page 180 |

## Description

# Rising mains

## Medium-power busbar trunking for multi-storey buildings

### General

Canalis KS risers distribute power to each floor in multi-level buildings (office buildings, hotels, hospitals, car parks and ships).

**In this application, Canalis KS offers its many advantages:**

- aluminium conductors, equipped with bimetal aluminium/silver-plated copper contacts at junctions and tap-off points
- a mechanical and electrical jointing system that provides automatic and simultaneous jointing of all live conductors and the continuity of the protective earth conductor, as well as its connection with the casing. This jointing block also absorbs the difference in conductor and casing thermal expansion for each length
- tap-off outlets with automatic shutters.

When installed vertically, the Canalis KS degree of protection is IP55.

### How to build rising mains

**A.** Use an end feed unit, type **KSA...ABD4** in order to have the neutral on the right-hand side in the riser.

**B.** Two solutions are available to support the riser.

**B1.** Use the **KSB...ZV1** bottom support for risers. Placed at the bottom of the riser and attached to the wall, this support takes the entire weight of the rising mains. Consequently, depending on the rating, the maximum height of the rising mains is limited as indicated below.

| Rating (A)  | Max. recommended height | Max. recommended weight by support |
|-------------|-------------------------|------------------------------------|
| 100 and 250 | 40 m                    | 680 kg                             |
| 400         | 30 m                    | 680 kg                             |
| 500         | 70 m                    | 1760 kg                            |
| 630         | 50 m                    | 1760 kg                            |
| 800         | 50 m                    | 1760 kg                            |
| 1000        | 40 m                    | 1760 kg                            |

**B2.** Use floor supports **KSB...ZV3**, only compatible with made to measure elements **KSA...CM4AF**. They are used to support the riser on each floor of the building, for enhanced flexibility in carrying out the various installation phases. With this support, riser sections can be installed even when the lower floors have not been completed.

| Rating (A) | Max. recommended height | Max. recommended weight by support |
|------------|-------------------------|------------------------------------|
| All        | 150 m                   | 440 kg                             |

Above 100 m, avoid the use of fixed components at the bottom or the top (e.g. elbows) and supply power using cables wherever possible.

**C.** Use custom-length fire barriers to block fire propagation between floors. They also provide the means to adjust to the distance between floors.

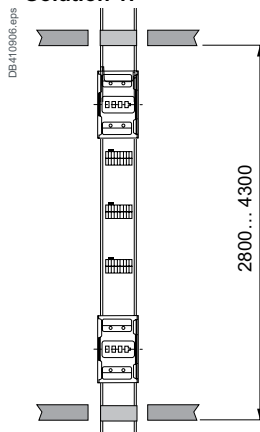
**D.** Use standard straight lengths, 2 or 2.50 metres long. Lengths and fire barriers can be combined to provide:

**Solution 1:** for a distance of 2800 mm to 4300 mm between floors, three tap-off outlets with **KSA...EV4203** straight lengths,

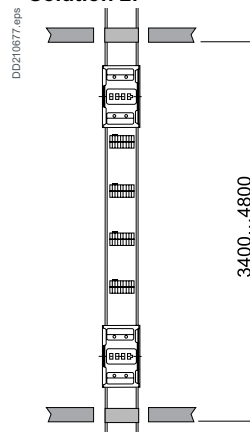
**Solution 2:** for a distance of 3400 mm to 4800 mm between floors, four tap-off outlets with **KSA...EV4254** straight lengths,

**E.** Use **KSB 1000ZV2** fixings to guide the riser on each floor.

**Solution 1:**



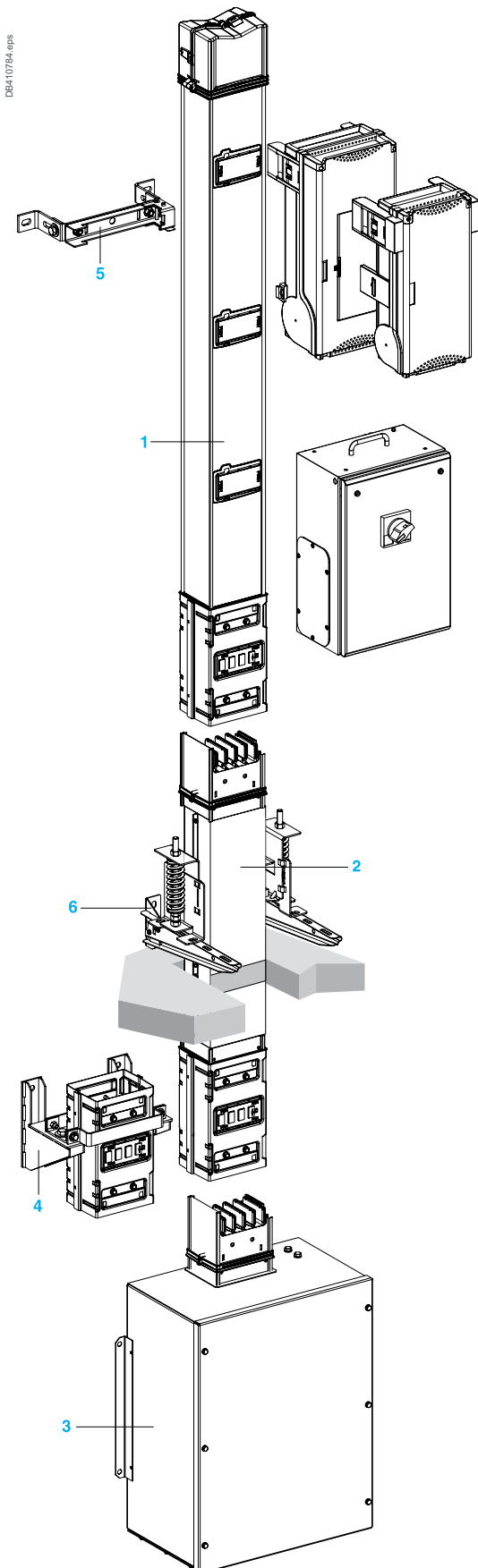
**Solution 2:**



## Description

# Rising mains

## Medium-power busbar trunking for multi-storey buildings



### Riser components

#### 1. Straight lengths for distribution

Specially designed for rising mains, they are available in 3 lengths (1.5, 2 and 2.5 metres).

They have three or four tap-off outlets, all on the same side. The outlets are positioned to enable connection of up to three 160 A tap-off units for Compact NSX circuit breakers on the two-metre lengths and up to four on the 2.5-metre lengths.

#### 2. Custom-length fire-barrier lengths

Installed at each floor level, these lengths avoids any risk of fire propagation from one floor to another via the trunking. These fire barriers have been tested in a certified laboratory and comply with standard EN 1363-1. The laboratory report lists the following results:

- thermal insulation:  $\geq 120$  minutes
- resistance to flames:  $\geq 120$  minutes
- stability:  $\geq 120$  minutes.

Provided in custom lengths, these barriers are used with the straight lengths to adjust to the exact height of each floor.

### Feed units

#### Direct supply from a switchboard

The trunking connects directly to a switchboard via a spreader. In this configuration, the riser is supplied through a horizontal section made of lengths without tap-off outlets.

#### 3. Supply via cables

Equipped with terminals made of tinned aluminium, this feed unit is designed for connection to copper or aluminium cables equipped with the necessary lugs. The feed unit is also equipped with an aluminium gland plate. The plate can be removed and is not pre-drilled.

### Fixing systems

#### 4. Bottom support

This component attaches to the first jointing unit at the base of the riser and is attached to the wall by two brackets. It supports the entire riser (see height limitations on the previous page).

Note: the foot of the riser is a special jointing unit to which a wall bracket is installed.

#### 5. Guides

These guides, clipped to the riser, maintain it in the vertical position on each floor. They not block access to the tap-off outlets (ratings 500 to 1000 A).

#### 6. Floor supports

Fixed to the floor or wall (via Canalis 200 mm cantilever arms), they attach to the sides of a special component (with or without fire barrier).

### Tap-off units

Dedicated or standard KS tap-off units can be used (see compatibility page).

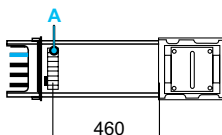
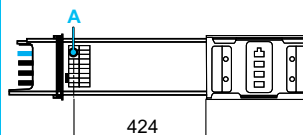
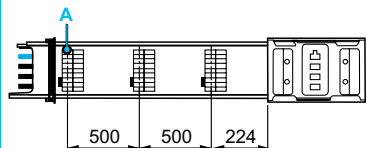
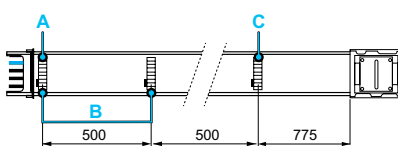
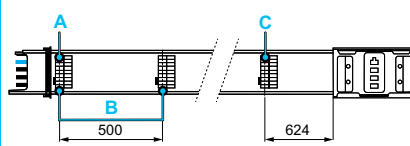
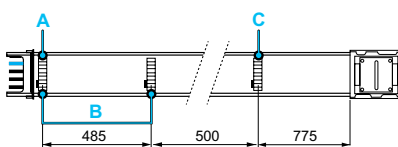
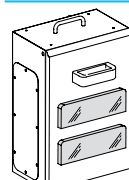
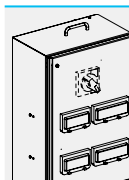
### Accessories

#### Sprinkler kit

To comply with the sprinkler tests (guaranteeing operation under vertically and horizontally sprayed water for 50 minutes), each electrical jointing system should be fitted with a reinforced protection kit (the jointing sleeve).

## Description

## Compatibility of tap-off units and busbar trunkings

| Case KS 100 to 400 A                                                                                                                                                                                      |                 |                                                                                    | Case KS 500 to 1000 A                           |                                                                                     |                 |                            |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|----------------------------|------------------|
| 800 mm                                                                                                                                                                                                    |                 |                                                                                    |                                                 |                                                                                     |                 |                            |                  |
| 1 outlet<br>KSA... ED4081                                                                                                                                                                                 | ①               |   | ④                                               |  |                 |                            |                  |
| 1500 mm                                                                                                                                                                                                   |                 |                                                                                    |                                                 |                                                                                     |                 |                            |                  |
| 3 outlets<br>KSA... EV4153                                                                                                                                                                                |                 |                                                                                    | ⑤                                               |  |                 |                            |                  |
| 2000 and 2500 mm                                                                                                                                                                                          |                 |                                                                                    |                                                 |                                                                                     |                 |                            |                  |
| 3 or 4 outlets<br>KSA... EV4203<br>KSA... EV4254                                                                                                                                                          | ②               |   | ⑥                                               |  |                 |                            |                  |
| 3 or 4 outlets<br>KSA... EV4203<br>KSA... EV4254                                                                                                                                                          | ③               |  |                                                 |                                                                                     |                 |                            |                  |
| ↓                                                                                                                                                                                                         |                 |                                                                                    | ↓                                               |                                                                                     |                 |                            |                  |
| Case KS 100 to 400 A - Mountings available on:                                                                                                                                                            |                 |                                                                                    | Case KS 500 to 1000 A - Mountings available on: |                                                                                     |                 |                            |                  |
|                                                                                                                                                                                                           | A<br>1st outlet | B<br>2 consecutive outlets                                                         | C<br>Last outlet                                |                                                                                     | A<br>1st outlet | B<br>2 consecutive outlets | C<br>Last outlet |
| <br>KSB160SM...<br>W* = 450 mm                                                                                         | ①               | ●                                                                                  |                                                 | ④                                                                                   | -               |                            |                  |
|                                                                                                                                                                                                           | ②               | -                                                                                  | ■                                               | ⑤                                                                                   | ●               | ■                          | -                |
|                                                                                                                                                                                                           | ③               | ●                                                                                  | ■                                               | ⑥                                                                                   | ●               | ■                          | ●                |
| <br>KSB250SM428 <sup>(1)</sup><br>KSB250DC4SP <sup>(2)</sup><br><sup>(1)</sup> W = 600 mm<br><sup>(2)</sup> W = 500 mm | ①               | -                                                                                  |                                                 | ④                                                                                   | -               |                            |                  |
|                                                                                                                                                                                                           | ②               | -                                                                                  | △                                               | ⑤                                                                                   | ●               | △                          | -                |
|                                                                                                                                                                                                           | ③               | ●                                                                                  | △                                               | ⑥                                                                                   | ●               | △                          | ●                |

\* W = width of the tap-off unit

- The tap-off unit can be mounted at this position
- The right outlet is available for another tap-off unit
- △ The right outlet is hidden by the tap-off unit
- X Impossible to mount this tap-off unit at this position

## Offer overview

### Busbar ratings (A)

|                                               | 100                | 160                | 250                | 400                | 500                | 630                | 800                 | 1000                |
|-----------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| <b>Feed units</b>                             |                    |                    |                    |                    |                    |                    |                     |                     |
| <b>Mounted on the busway</b>                  |                    |                    |                    |                    |                    |                    |                     |                     |
| Without line protection                       |                    |                    |                    |                    |                    |                    |                     |                     |
| Right mounting 3L+N+PE                        | <b>KSA100AB4</b>   | <b>KSA250AB4</b>   | <b>KSA250AB4</b>   | <b>KSA400AB4</b>   | <b>KSA630ABD4</b>  | <b>KSA630ABD4</b>  | <b>KSA1000ABD4</b>  | <b>KSA1000ABD4</b>  |
| For line protection with a NSX (not included) |                    |                    |                    |                    |                    |                    |                     |                     |
| Right mounting 3L+N+PE                        | <b>KSA250ABDD4</b> | <b>KSA250ABDD4</b> | <b>KSA250ABDD4</b> | <b>KSA400ABDD4</b> | <b>KSA630ABDD4</b> | <b>KSA630ABDD4</b> | <b>KSA1000ABDD4</b> | <b>KSA1000ABDD4</b> |
| 3L+PEN                                        | <b>KSA250ABDD5</b> | <b>KSA250ABDD5</b> | <b>KSA250ABDD5</b> | <b>KSA400ABDD5</b> | <b>KSA630ABDD5</b> | <b>KSA630ABDD5</b> | <b>KSA1000ABDD5</b> | <b>KSA1000ABDD5</b> |
| <b>Mounted on the panelboard</b>              |                    |                    |                    |                    |                    |                    |                     |                     |
| Without line protection                       |                    |                    |                    |                    |                    |                    |                     |                     |
| Flange units 3L+N+PE                          | <b>KSA250AE4</b>   | <b>KSA250AE4</b>   | <b>KSA250AE4</b>   | <b>KSA400AE4</b>   | <b>KSA630AE4</b>   | <b>KSA630AE4</b>   | <b>KSA1000AE4</b>   | <b>KSA1000AE4</b>   |

### Straight lengths

|                                                        |                     |                     |                     |                     |                     |                     |                      |                      |
|--------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| <b>Vertical mounting</b>                               |                     |                     |                     |                     |                     |                     |                      |                      |
| For distribution - 3L+N+PE                             |                     |                     |                     |                     |                     |                     |                      |                      |
| At the foot of a riser                                 |                     |                     |                     |                     |                     |                     |                      |                      |
| 800 mm 1 outlet                                        | <b>KSA100ED4081</b> | <b>KSA250ED4081</b> | <b>KSA250ED4081</b> | <b>KSA400ED4081</b> | <b>KSA630ED4081</b> | <b>KSA630ED4081</b> | <b>KSA1000ED4081</b> | <b>KSA1000ED4081</b> |
| With standard density outlets on 1 side only           |                     |                     |                     |                     |                     |                     |                      |                      |
| 1500 mm 3 outlets                                      | -                   | -                   | -                   | -                   | <b>KSA500EV4153</b> | <b>KSA630EV4153</b> | <b>KSA800EV4153</b>  | <b>KSA1000EV4153</b> |
| 2000 mm 3 outlets                                      | <b>KSA100EV4203</b> | <b>KSA250EV4203</b> | <b>KSA250EV4203</b> | <b>KSA400EV4203</b> | <b>KSA500EV4203</b> | <b>KSA630EV4203</b> | <b>KSA800EV4203</b>  | <b>KSA1000EV4203</b> |
| 2500 mm 4 outlets                                      | <b>KSA100EV4254</b> | <b>KSA250EV4254</b> | <b>KSA250EV4254</b> | <b>KSA400EV4254</b> | <b>KSA500EV4254</b> | <b>KSA630EV4254</b> | <b>KSA800EV4254</b>  | <b>KSA1000EV4254</b> |
| For transport (without outlets) - 3L+N+PE              |                     |                     |                     |                     |                     |                     |                      |                      |
| Made-to-measure                                        |                     |                     |                     |                     |                     |                     |                      |                      |
| 500 to 1900 A                                          | <b>KSA250CM4A</b>   | <b>KSA250CM4A</b>   | <b>KSA250CM4A</b>   | <b>KSA400CM4A</b>   | <b>KSA630CM4A</b>   | <b>KSA630CM4A</b>   | <b>KSA1000CM4A</b>   | <b>KSA1000CM4A</b>   |
| Made-to-measure - With 1 fire barrier free positioning |                     |                     |                     |                     |                     |                     |                      |                      |
| 800 to 1900 A                                          | <b>KSA250CM4AF</b>  | <b>KSA250CM4AF</b>  | <b>KSA250CM4AF</b>  | <b>KSA400CM4AF</b>  | <b>KSA630CM4AF</b>  | <b>KSA630CM4AF</b>  | <b>KSA1000CM4AF</b>  | <b>KSA1000CM4AF</b>  |

### Fixing brackets and supports

|                                                              |                   |                   |                   |                   |                   |                   |                   |                   |
|--------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Fixing bracket and supports for vertical installation</b> |                   |                   |                   |                   |                   |                   |                   |                   |
| To support all the run                                       |                   |                   |                   |                   |                   |                   |                   |                   |
| Installed at the bottom of the riser                         | <b>KSB250ZV1</b>  | <b>KSB250ZV1</b>  | <b>KSB250ZV1</b>  | <b>KSB400ZV1</b>  | <b>KSB630ZV1</b>  | <b>KSB630ZV1</b>  | <b>KSB1000ZV1</b> | <b>KSB1000ZV1</b> |
| To support the run at each floor                             |                   |                   |                   |                   |                   |                   |                   |                   |
| Spring hanger                                                | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> | <b>KSB1000ZV3</b> |
| To guide the run at each floor                               |                   |                   |                   |                   |                   |                   |                   |                   |
| Fixing surrounding the busway                                | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> | <b>KSB1000ZV2</b> |

### Connectors & Tap-off units dedicated to vertical installation <sup>(1) (2)</sup>

|                                                                                                     |                    |                    |
|-----------------------------------------------------------------------------------------------------|--------------------|--------------------|
| <b>Disconnection by opening the door</b>                                                            |                    |                    |
| Delivered equipped with 2 DIN Rails                                                                 |                    |                    |
| For 18 mm modular devices - 160 A - 3L+N+PE                                                         | <b>KSB160SM424</b> | <b>KSB160SM424</b> |
| For 18 mm modular devices - 160 A - 3L+PEN                                                          | <b>KSB160SM524</b> | <b>KSB160SM524</b> |
| <b>Switching with a rotary handle located on the door</b>                                           |                    |                    |
| Delivered equipped with a mounting plate for 1 circuit breaker - 250 A - 3L+N+PE                    |                    |                    |
| For NSX circuit breaker + equipped with 2 DIN rails - Tap-off unit mountable over the junction unit | <b>KSB250SM428</b> | <b>KSB250SM428</b> |
| For NSX circuit breaker - Tap-off unit mountable over the junction unit                             | <b>KSB250DC4SP</b> | <b>KSB250DC4SP</b> |

(1) Others tap-off units from Classic and Advanced offers can be fitted to a vertical run.

(2) See compatibility page for mounting limitations.

"KS.....": Reference specifically adapted to the rating of the busbar trunking

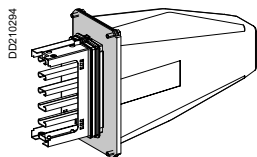
"KS.....": Compatible reference with the rating of the busbar trunking



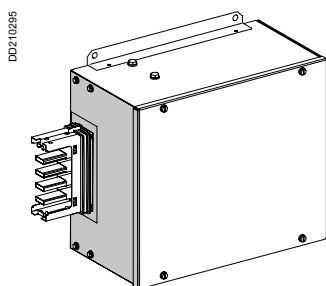
## Rising main offer

## Feed units

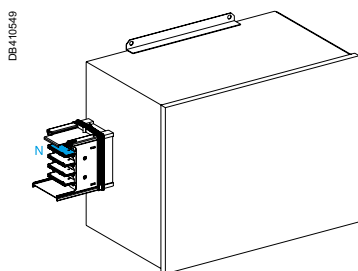
## Right mounting



KSA100AB4



KSA250 and 400 AB4



KSA630 and 1000 ABD

Mounted on the busway  
Without line protection

| Cat. n°         | KSA100AB4     | KSA250AB4     | KSA400AB4 | KSA630ABD4     | KSA1000ABD4    |
|-----------------|---------------|---------------|-----------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA100 to 250 | KSA400    | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|
| A in the line (mm) | 390 | 501 | 501 | 753 | 753 |
|--------------------|-----|-----|-----|-----|-----|

|               |             |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 100         | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |             |

## Cabling

|                                |      |      |      |      |      |
|--------------------------------|------|------|------|------|------|
| Protection Type (Not Supplied) | None | None | None | None | None |
|--------------------------------|------|------|------|------|------|

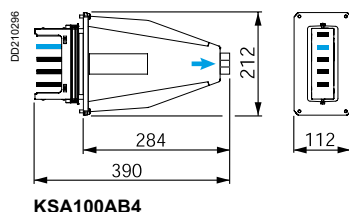
|                                       |                                        |                                                                          |                                                                          |                                                                          |                                                                          |
|---------------------------------------|----------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Input Type                            | Cable Gland PG29                       | Alu. plate<br>300 x 170 x 3                                              | Alu. plate<br>340 x 208 x 3                                              | Alu. plate<br>446 x 276 x 3                                              | Alu. plate<br>446 x 358 x 3                                              |
| Available Area (mm)                   | Ø37.5 mm                               | 240x130                                                                  | 280 x 160                                                                | 386 x 240                                                                | 386 x 320                                                                |
| Maximum Cable size (mm <sup>2</sup> ) | Cable max Ø23mm                        | 4 x 240                                                                  | 4 x 300 or 8 x 120                                                       | 4 x 300 or 8 x 240                                                       | 12 x 300                                                                 |
| Connection                            | Mechanical lugs<br>(Zinc plated steel) | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum<br>bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum<br>bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum<br>bars | With Compression Lugs <sup>(1)</sup> onto<br>tin-plated aluminum<br>bars |
| Capability Per Phase                  | 5 x 16 mm <sup>2</sup>                 | 1 x Ø13 mm (L) +<br>1 x Ø8 mm (PE)                                       | 1 x Ø13 mm (L) +<br>2 x Ø11 mm (PE)                                      | 3 x Ø14 mm (L) +<br>3 x Ø11 mm (PE)                                      | 4 x Ø15 mm (L) +<br>4 x Ø10 mm (PE)                                      |

- (1) Not included (1) Not included (1) Not included (1) Not included

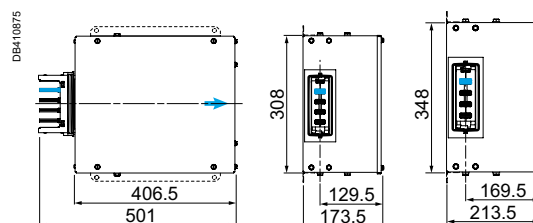
## Additional Characteristics

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White | White |
| Weight (kg)  | 1,8   | 8     | 11,2  | 22    | 25    |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

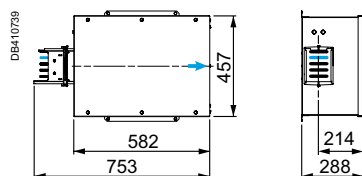
Supplied with an End cover



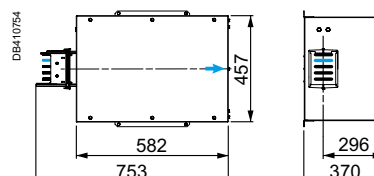
KSA100AB4



KSA250 and 400 AB4



KSA630ABD4



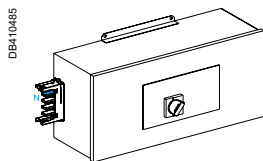
KSA1000ABD4



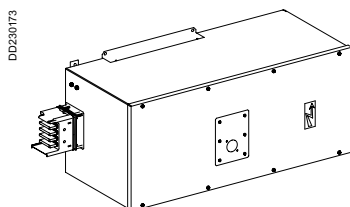
# Rising main offer

## Feed units

### Right mounting



KSA250 and 400 ABDD



KSA630 and 1000 ABDD

#### Mounted on the busway For line protection with a NSX (not delivered)

| Cat. n°         | KSA250ABDD4   | KSA400ABDD4 | KSA630ABDD4    | KSA1000ABDD4   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |             |             |             |             |
|---------------|-------------|-------------|-------------|-------------|
| Rating (A)    | 250         | 400         | 630         | 1000        |
| Polarity      | 3L + N + PE | 3L + N + PE | 3L + N + PE | 3L + N + PE |
| Phase Diagram |             |             |             |             |

| Cabling                        |                |                |                |        |
|--------------------------------|----------------|----------------|----------------|--------|
| Protection Type (Not Supplied) | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |

|            |                             |                             |                             |                             |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                     |           |           |           |           |
|---------------------|-----------|-----------|-----------|-----------|
| Available Area (mm) | 240 x 220 | 280 x 220 | 386 x 330 | 386 x 410 |
|---------------------|-----------|-----------|-----------|-----------|

|                                       |         |                    |                    |          |
|---------------------------------------|---------|--------------------|--------------------|----------|
| Maximum Cable size (mm <sup>2</sup> ) | 4 x 240 | 4 x 300 or 8 x 120 | 4 x 300 or 8 x 240 | 12 x 300 |
|---------------------------------------|---------|--------------------|--------------------|----------|

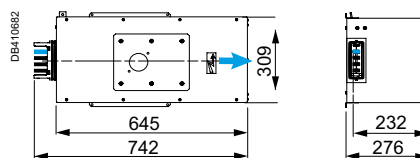
|            |                  |                  |                  |                 |
|------------|------------------|------------------|------------------|-----------------|
| Connection | On NSX terminals | On NSX terminals | On NSX terminals | On NS terminals |
|------------|------------------|------------------|------------------|-----------------|

|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

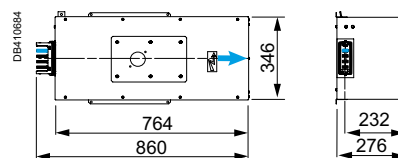
|  |                                         |                                         |                                         |                                       |
|--|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle LV429338 | NSX400: Extended rotary handle LV432598 | NSX630: Extended rotary handle LV432598 | NS 1000: Extended rotary handle 33878 |
|--|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|

| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 17,1  | 22,2  | 39,2  | 52    |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

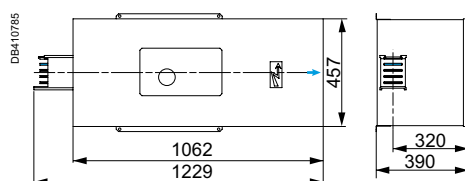
Supplied with an End cover



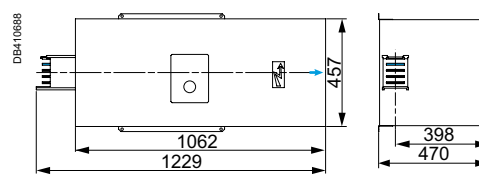
KSA250ABDD4



KSA400ABDD4



KSA630ABDD4

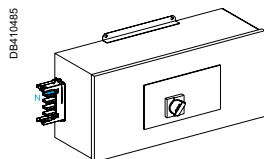


KSA1000ABDD4

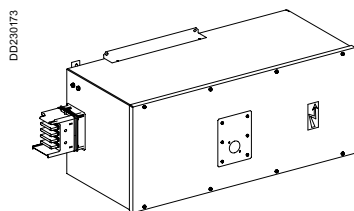
## Rising main offer

## Feed units

## Right mounting



KSA250 and 400 ABDD



KSA630 and 1000 ABDD

**Mounted on the busway**  
**For line protection with a NSX (not delivered)**

| Cat. n°         | KSA250ABDD5   | KSA400ABDD5 | KSA630ABDD5    | KSA1000ABDD5   |
|-----------------|---------------|-------------|----------------|----------------|
| Compatible with | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |

|                    |     |     |      |      |
|--------------------|-----|-----|------|------|
| A in the line (mm) | 742 | 860 | 1258 | 1267 |
|--------------------|-----|-----|------|------|

|               |          |          |          |          |
|---------------|----------|----------|----------|----------|
| Rating (A)    | 250      | 400      | 630      | 1000     |
| Polarity      | 3L + PEN | 3L + PEN | 3L + PEN | 3L + PEN |
| Phase Diagram |          |          |          |          |

**Cabling**

|                                |                |                |                |        |
|--------------------------------|----------------|----------------|----------------|--------|
| Protection Type (Not Supplied) | NSX250 N, H, L | NSX400 N, H, L | NSX630 N, H, L | NS1000 |
|--------------------------------|----------------|----------------|----------------|--------|

|            |                             |                             |                             |                             |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Type | Alu. plate<br>300 x 267 x 3 | Alu. plate<br>340 x 267 x 3 | Alu. plate<br>446 x 378 x 3 | Alu. plate<br>446 x 458 x 3 |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                     |           |           |           |           |
|---------------------|-----------|-----------|-----------|-----------|
| Available Area (mm) | 240 x 220 | 280 x 220 | 386 x 330 | 386 x 410 |
|---------------------|-----------|-----------|-----------|-----------|

|                                       |         |                    |                    |          |
|---------------------------------------|---------|--------------------|--------------------|----------|
| Maximum Cable size (mm <sup>2</sup> ) | 4 x 240 | 4 x 300 or 8 x 120 | 4 x 300 or 8 x 240 | 12 x 300 |
|---------------------------------------|---------|--------------------|--------------------|----------|

|            |                  |                  |                  |                 |
|------------|------------------|------------------|------------------|-----------------|
| Connection | On NSX terminals | On NSX terminals | On NSX terminals | On NS terminals |
|------------|------------------|------------------|------------------|-----------------|

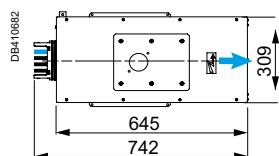
|                      |                         |                         |                         |                            |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|
| Capability Per Phase | See Compact NSX catalog | See Compact NSX catalog | See Compact NSX catalog | See Compact NS1000 catalog |
|----------------------|-------------------------|-------------------------|-------------------------|----------------------------|

|  |                                            |                                            |                                            |                                       |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|
|  | NSX250: Extended rotary handle<br>LV429338 | NSX400: Extended rotary handle<br>LV432598 | NSX630: Extended rotary handle<br>LV432598 | NS 1000: Extended rotary handle 33878 |
|--|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------|

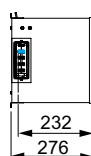
**Additional Characteristics**

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 17,3  | 22,6  | 39,9  | 53,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

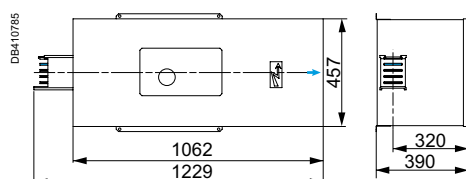
Supplied with an End cover



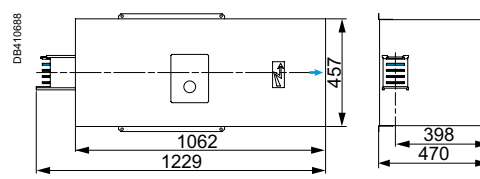
KSA250ABDD5



KSA400ABDD5



KSA630ABDD5

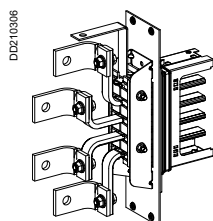


KSA1000ABDD5

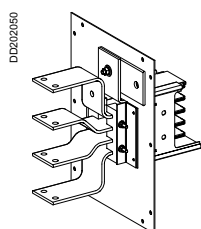
# Rising main offer

## Feed units

### Flange units



KSA250 and 400 AE



KSA630 and 1000 AE

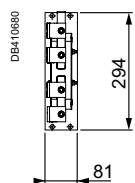
#### Mounted on the switchboard Without line protection

| Cat. n°                                  | KSA250AE4                                                          | KSA400AE4                                                          | KSA630AE4                                                          | KSA1000AE4                                                         |
|------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Compatible with                          | KSA100 to 250                                                      | KSA400                                                             | KSA500 to 1000                                                     | KSA500 to 1000                                                     |
| A in the line (mm)                       | 100                                                                | 100                                                                | 172                                                                | 172                                                                |
| Rating (A)                               | 250                                                                | 400                                                                | 630                                                                | 1000                                                               |
| Polarity                                 | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        | 3L + N + PE                                                        |
| Phase Diagram                            |                                                                    |                                                                    |                                                                    |                                                                    |
| <b>Cabling</b>                           |                                                                    |                                                                    |                                                                    |                                                                    |
| Protection Type<br>(Not Supplied)        | None                                                               | None                                                               | None                                                               | None                                                               |
| Input Type                               | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Available<br>Area (mm)                   | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Maximum<br>Cable size (mm <sup>2</sup> ) | -                                                                  | -                                                                  | -                                                                  | -                                                                  |
| Connection                               | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars | With Compression Lugs <sup>(1)</sup> onto tin-plated aluminum bars |
| Capability<br>Per Phase                  | 1 x Ø 13 mm (L) + 1 x Ø 9 mm (PE)                                  | 1 x Ø 13 mm (L) + 1 x Ø 9 mm (PE)                                  | 2 x Ø 11 mm (L) + 1 x Ø 14 mm (PE)                                 | 4 x Ø 11 mm (L) + 1 x Ø 14 mm (PE)                                 |
|                                          | (2) Not included                                                   | (2) Not included                                                   | <sup>(1)</sup> Not included                                        | <sup>(1)</sup> Not included                                        |

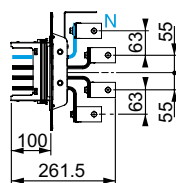
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | -     | -     | -     | -     |
| Color        | White | White | White | White |
| Weight (kg)  | 2     | 2,1   | 10,6  | 12    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

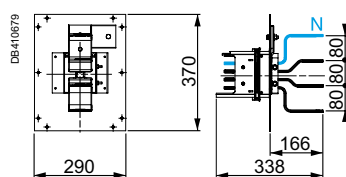
Supplied with an End cover



KSA250 AE



KSA400 AE

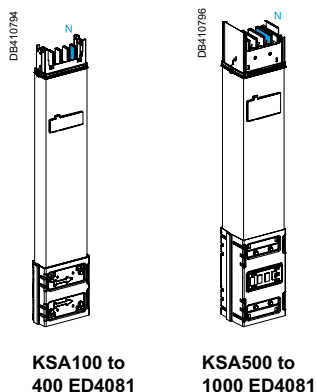


KSA630 and 1000 AE

## Rising main offer

## Straight lengths

At the foot of a riser - 0.8 m

For Distribution  
Vertical mounting

| Cat. n°            | KSA100ED4081  | KSA250ED4081  | KSA400ED4081 | KSA630ED4081   | KSA1000ED4081  |
|--------------------|---------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 800           | 800           | 800          | 800            | 800            |
| Rating (A)         | 100           | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

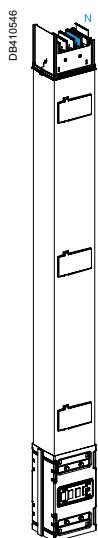
## Characteristics

|                                 |                   |                   |                   |                   |                   |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number Of Outlet(s)             | 1                 | 1                 | 1                 | 1                 | 1                 |
| Outlet(s) Position              | On the front side | On the front side | On the front side | On the front side | On the front side |
| Distance Between - Outlets (mm) | -                 | -                 | -                 | -                 | -                 |
| Fire Barrier                    | No                | No                | No                | No                | No                |

## Additional Characteristics

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White | White |
| Weight (kg)  | 6,5   | 6,5   | 7,8   | 16,5  | 16,8  |
| Selling Unit | 1     | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     | 1     |

With Standard density outlets on 1 side only - 1.5 m

For Distribution  
Vertical mounting

| Cat. n°            | KSA500EV4153   | KSA630EV4153   | KSA800EV4153   | KSA1000EV4153  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 1500           | 1500           | 1500           | 1500           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

## Characteristics

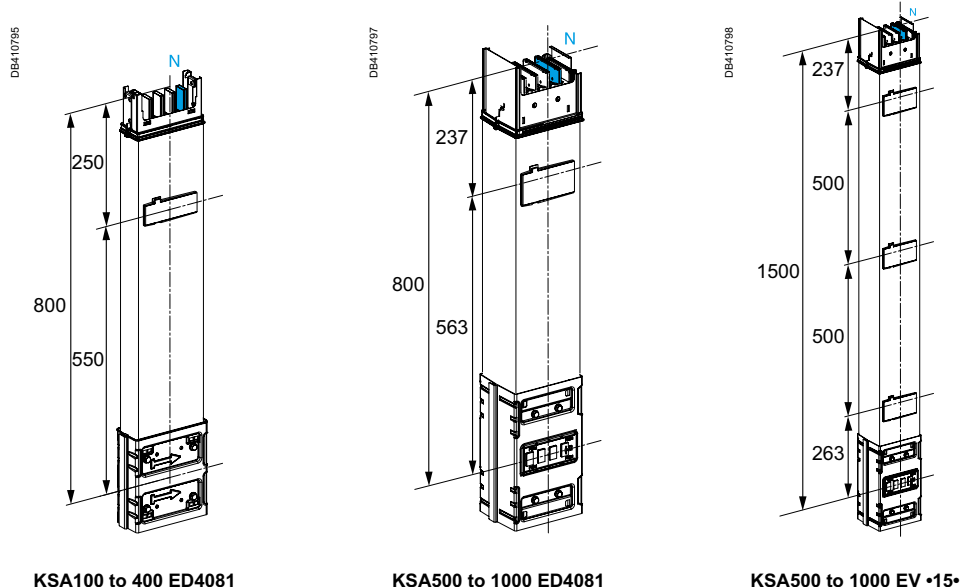
|                                   |                   |                   |                   |                   |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Number Of Outlet(s)               | 3                 | 3                 | 3                 | 3                 |
| Outlet(s) Position                | On the front side | On the front side | On the front side | On the front side |
| Distance Between 500 Outlets (mm) | 500               | 500               | 500               | 500               |
| Fire Barrier                      | No                | No                | No                | No                |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 19,5  | 20,6  | 23,6  | 29,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

ED Elements can also be used in vertical position with potentially no access to the rear outlets

KSA500 to 1000 EV •15•



KSA100 to 400 ED4081

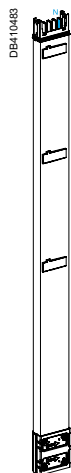
KSA500 to 1000 ED4081

KSA500 to 1000 EV •15•

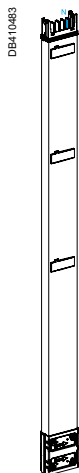
# Rising main offer

## Straight lengths

With Standard density outlets on 1 side only - 2 m



KSA100 to  
250 EV •20•



KSA 400 EV •20•

### For Distribution Vertical mounting

| Cat. n°            | KSA100EV4203  | KSA250EV4203  | KSA400EV4203 |
|--------------------|---------------|---------------|--------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA400       |
| A in the line (mm) | 2000          | 2000          | 2000         |
| Rating (A)         | 100           | 250           | 400          |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE  |

#### Characteristics

|                      |                   |                   |                                            |
|----------------------|-------------------|-------------------|--------------------------------------------|
| Number Of Outlet(s)  | 3                 | 3                 | 3                                          |
| Outlet(s) Position   | On the front side | On the front side | On the front side                          |
| Distance Between 500 | 500               | 500               | 1 <sup>st</sup> outlet at 485 and then 500 |
| Outlets (mm)         |                   |                   |                                            |
| Fire Barrier         | No                | No                | No                                         |

#### Additional Characteristics

|              |       |       |       |
|--------------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  |
| Color        | White | White | White |
| Weight (kg)  | 7     | 10    | 13,5  |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |

ED Elements can also be used in vertical position with potentially no access to the rear outlets

With Standard density outlets on 1 side only - 2 m



KSA500 to 1000 EV •20•

### For Distribution Vertical mounting

| Cat. n°            | KSA500EV4203   | KSA630EV4203   | KSA800EV4203   | KSA1000EV4203  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 2000           | 2000           | 2000           | 2000           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

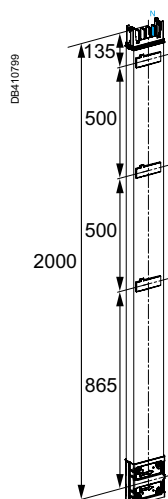
#### Characteristics

|                      |                   |                   |                   |                   |
|----------------------|-------------------|-------------------|-------------------|-------------------|
| Number Of Outlet(s)  | 3                 | 3                 | 3                 | 3                 |
| Outlet(s) Position   | On the front side | On the front side | On the front side | On the front side |
| Distance Between 500 | 500               | 500               | 500               | 500               |
| Outlets (mm)         |                   |                   |                   |                   |
| Fire Barrier         | No                | No                | No                | No                |

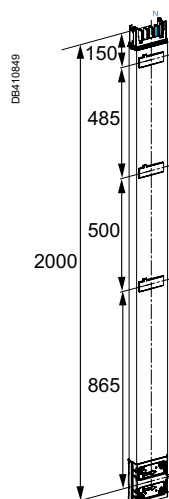
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 23    | 24,5  | 29    | 36,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

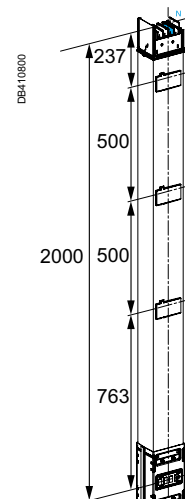
ED Elements can also be used in vertical position with potentially no access to the rear outlets



KSA100 to 250 EV •20•



KSA 400 EV •20•

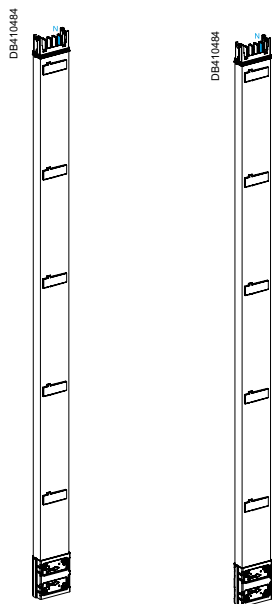


KSA500 to 1000 EV •20•

## Rising main offer

## Straight lengths

With Standard density outlets on 1 side only - 3 m

KSA100 to  
250 EV •25•

KSA 400 EV •25•

For Distribution  
Vertical mounting

| Cat. n°            | KSA100EV4254  | KSA250EV4254  | KSA400EV4254 |
|--------------------|---------------|---------------|--------------|
| Compatible with    | KSA100 to 250 | KSA100 to 250 | KSA400       |
| A in the line (mm) | 2500          | 2500          | 2500         |
| Rating (A)         | 100           | 250           | 400          |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE  |

## Characteristics

|                                   |                   |                   |                                |
|-----------------------------------|-------------------|-------------------|--------------------------------|
| Number Of Outlet(s)               | 4                 | 4                 | 4                              |
| Outlet(s) Position                | On the front side | On the front side | On the front side              |
| Distance Between 500 Outlets (mm) | 500               | 500               | 1st outlet at 485 and then 500 |
| Fire Barrier                      | No                | No                | No                             |

## Additional Characteristics

|              |       |       |       |
|--------------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  |
| Color        | White | White | White |
| Weight (kg)  | 8,5   | 12    | 16,5  |
| Selling Unit | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     |

ED Elements can also be used in vertical position with potentially no access to the rear outlets

With Standard density outlets on 1 side only - 3 m



KSA500 to 1000 EV •25•

For Distribution  
Vertical mounting

| Cat. n°            | KSA500EV4254   | KSA630EV4254   | KSA800EV4254   | KSA1000EV4254  |
|--------------------|----------------|----------------|----------------|----------------|
| Compatible with    | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 2500           | 2500           | 2500           | 2500           |
| Rating (A)         | 500            | 630            | 800            | 1000           |
| Polarity           | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    | 3L + N + PE    |

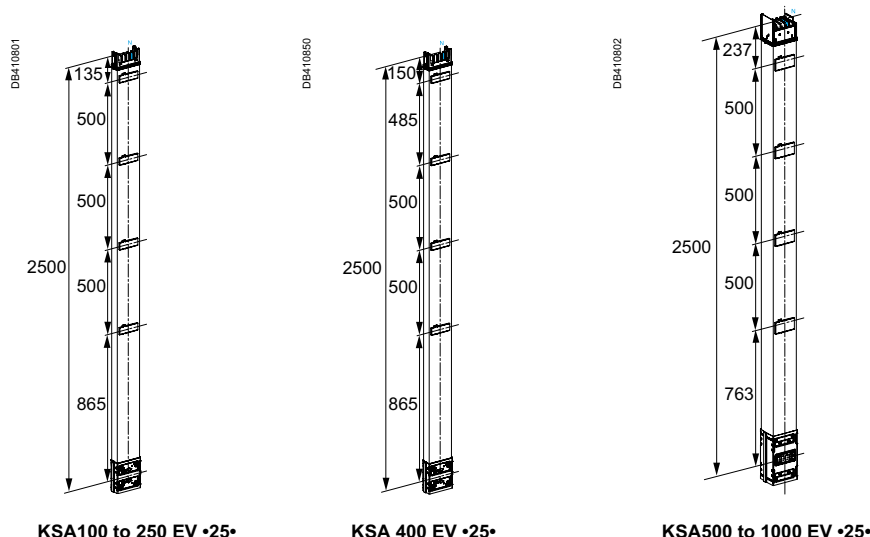
## Characteristics

|                                   |                   |                   |                   |                   |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Number Of Outlet(s)               | 4                 | 4                 | 4                 | 4                 |
| Outlet(s) Position                | On the front side | On the front side | On the front side | On the front side |
| Distance Between 500 Outlets (mm) | 500               | 500               | 500               | 500               |
| Fire Barrier                      | No                | No                | No                | No                |

## Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 28    | 30    | 35,5  | 44    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

ED Elements can also be used in vertical position with potentially no access to the rear outlets



KSA100 to 250 EV •25•

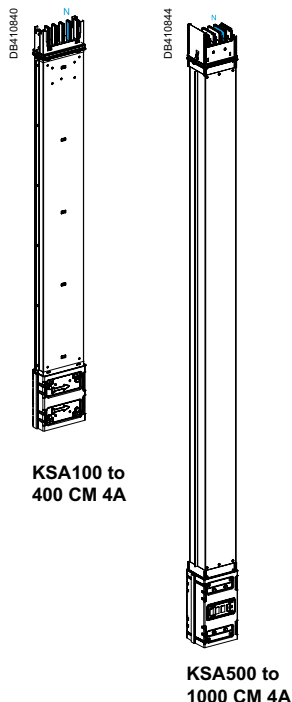
KSA 400 EV •25•

KSA500 to 1000 EV •25•

# Rising main offer

## Straight lengths

### Made-to-measure



#### For Transport (without Outlets) Vertical mounting

| Cat. n°            | KSA250CM4A    | KSA400CM4A  | KSA630CM4A     | KSA1000CM4A    |
|--------------------|---------------|-------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1900   | 500 to 1900 | 500 to 1900    | 500 to 1900    |
| Rating (A)         | 250           | 400         | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

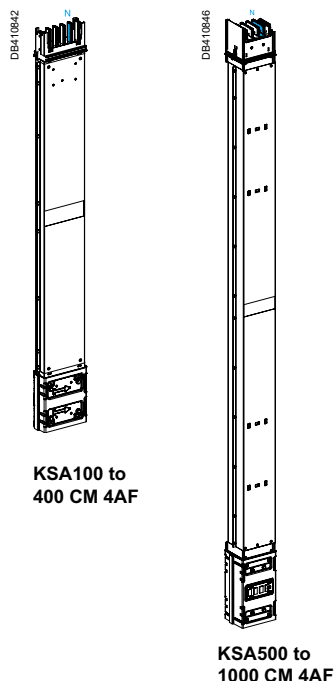
#### Characteristics

|              |    |    |    |    |
|--------------|----|----|----|----|
| Fire Barrier | No | No | No | No |
|--------------|----|----|----|----|

#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 8     | 10    | 30    | 32,2  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

### Made-to-measure - With 1 fire barrier



#### For Transport (without Outlets) Vertical mounting

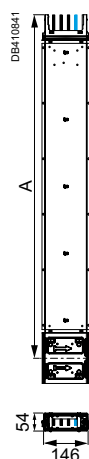
| Cat. n°            | KSA250CM4AF   | KSA400CM4AF | KSA630CM4AF    | KSA1000CM4AF   |
|--------------------|---------------|-------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 800 to 1900   | 800 to 1900 | 800 to 1900    | 800 to 1900    |
| Rating (A)         | 250           | 400         | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |

#### Characteristics

|                       |                              |                              |                              |                              |
|-----------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Fire Barrier          | Yes                          | Yes                          | Yes                          | Yes                          |
| Fire Barrier Position | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde |

#### Additional Characteristics

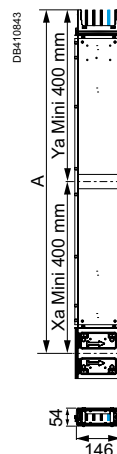
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 8,2   | 11    | 31    | 37    |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |



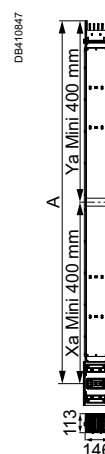
KSA100 to  
400 CM 4A



KSA630CM4A to  
KSA1000CM4A



KSA250CM4AF to  
KSA400CM4AF

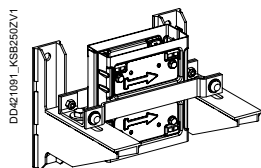


KSA630CM4AF to  
KSA1000CM4AF

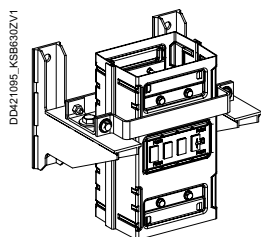
# Rising main offer

## Fixing brackets and supports

### For vertical installation



KSB100 to 400 ZV (C)



KSB500 to 1000 ZV (C)

**To support all the run**  
Installed at the bottom of the riser

| Cat. n°         | KSB250ZV1     | KSB400ZV1 | KSB630ZV1      | KSB1000ZV1     |
|-----------------|---------------|-----------|----------------|----------------|
| Compatible with | KSA100 to 400 | KSA400    | KSA500 to 1000 | KSA500 to 1000 |
| Rating (A)      | 250           | 400       | 630            | 1000           |
| Polarity        | -             | -         | -              | -              |

#### Characteristics

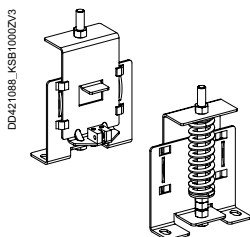
|                                 |                                 |                                  |                                  |
|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Max. permissible weight: 680 Kg | Max. permissible weight: 680 Kg | Max. permissible weight: 1760 Kg | Max. permissible weight: 1760 Kg |
|---------------------------------|---------------------------------|----------------------------------|----------------------------------|

#### Additional Characteristics

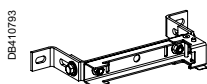
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 5,5   | 5,85  | 7,5   | 8     |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

ZV1 Bottom supports: check max weight or height in Offer description

### For vertical installation



KSB1000ZV3



KSB1000ZV2

**To support and guide the run at each floor**  
Spring hanger and fixing bracket

| Cat. n°         | KSB1000ZV3     | KSB1000ZV2     | KFBACA81200    |
|-----------------|----------------|----------------|----------------|
| Compatible with | KSA500 to 1000 | KSA500 to 1000 | KSA100 to 1000 |
| Rating (A)      | 1000           | 1000           | 1000           |
| Polarity        | -              | -              | -              |

#### Characteristics

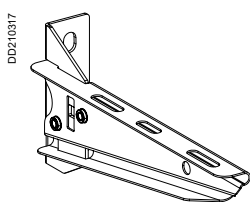
|                                 |   |                                 |
|---------------------------------|---|---------------------------------|
| Max. permissible weight: 440 Kg | - | Max. permissible weight: 220 kg |
|---------------------------------|---|---------------------------------|

#### Additional Characteristics

|              |       |       |            |
|--------------|-------|-------|------------|
| IP           | IP55  | IP55  | -          |
| Color        | White | White | Galvanised |
| Weight (kg)  | 1,6   | 0,55  | 0,45       |
| Selling Unit | 1     | 1     | 1          |
| MOQ          | 1     | 5     | 4          |

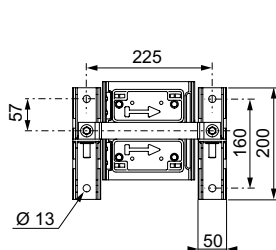
KSB1000ZV2: It is advice to use 1 guide per floor up to 3.5 meters high and 2 guides if higher than 3.5 meters

KSB1000ZV3: can be installed directly on the floor or on cantilever arm KFBACA81200

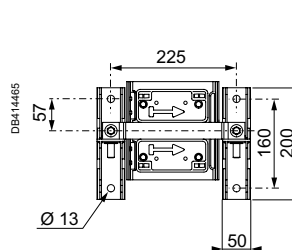
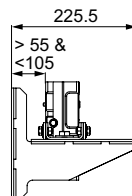


KFBACA81200

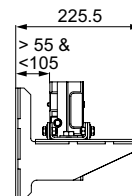
DB414465



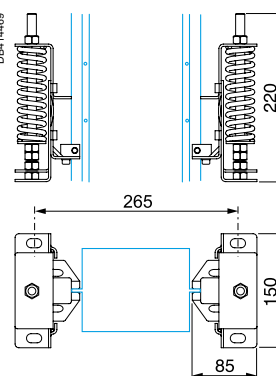
KSB100 to 400 ZV (C)



KSB500 to 1000 ZV (C)

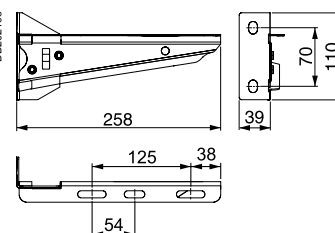


DB414469



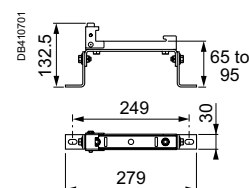
KSB1000ZV3

DD202193



KFBACA81200

DB410701



KSB1000ZV2

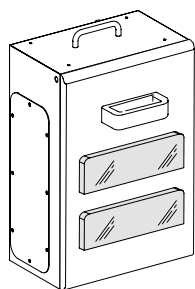


# Rising main offer

## Connectors and Tap-off units

### Disconnection by opening the door

DD2060222



KSB160 SM •

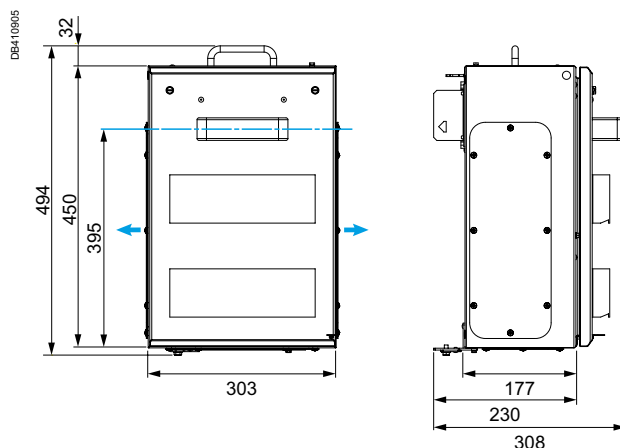
**Delivered equipped with 2 DIN Rails**  
For 18 mm modular devices <sup>(1)</sup>

| Cat. n°         | KSB160SM424    | KSB160SM524    |
|-----------------|----------------|----------------|
| Compatible with | KSA100 to 1000 | KSA100 to 1000 |

|               |             |          |
|---------------|-------------|----------|
| Rating (A)    | 160         | 160      |
| Polarity      | 3L + N + PE | 3L + PEN |
| Phase Diagram |             |          |

|                                   |                                                  |                                                  |
|-----------------------------------|--------------------------------------------------|--------------------------------------------------|
| <b>Cabling</b>                    |                                                  |                                                  |
| Protection Type (Not Supplied)    | 2 x 12 modules<br>18 mm (= 24)                   | 2 x 12 modules<br>18 mm (= 24)                   |
| Body Material                     | Metal                                            | Metal                                            |
| Cable Output                      | 2 lateral 1.5 mm steel cable plates<br>345 x 130 | 2 lateral 1.5 mm steel cable plates<br>345 x 130 |
| Available Area (mm)               | 2 x (315 x 100)                                  | 2 x (315 x 100)                                  |
| Connection                        | Acti9 Terminals                                  | Acti9 Terminals                                  |
| Maximum Rigid Cable Size (mm²)    | See Acti9 catalog                                | See Acti9 catalog                                |
| Maximum Flexible Cable Size (mm²) | See Acti9 catalog                                | See Acti9 catalog                                |
|                                   | Supplied with blanking plate                     | Supplied with blanking plate                     |

|                                   |       |       |
|-----------------------------------|-------|-------|
| <b>Additional Characteristics</b> |       |       |
| IP                                | IP55  | IP55  |
| Color                             | White | White |
| Weight (kg)                       | 9     | 9     |
| Selling Unit                      | 1     | 1     |
| MOQ                               | 1     | 1     |

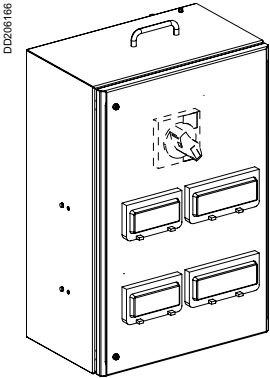


KSB160 SM •

Rising main offer

Connectors and Tap-off units

Switching with an extended rotary handle located on the door



KSB250 SM428

To be equipped with a disconnecter Compact INS/INV 250 and multiple Acti9 circuit breakers.  
This tap-off units is mountable over the junction cover. Cable entries are positionned at the opposite site of the door. IP31

|                 |                |
|-----------------|----------------|
| Cat. n°         | KSB250SM428    |
| Compatible with | KSA500 to 1000 |

|               |             |
|---------------|-------------|
| Rating (A)    | 250         |
| Polarity      | 3L + N + PE |
| Phase Diagram |             |

|                |                                                           |
|----------------|-----------------------------------------------------------|
| <b>Cabling</b> |                                                           |
| Device Type    | Level 1: Switch disconnecter Compact INS/INV 250          |
| (Not Supplied) | Level 2: Acti9 circuit breakers (2 x 14 modules of 18 mm) |

|               |                            |
|---------------|----------------------------|
| Body Material | Metal                      |
| Cable Output  | A set of holes at the rear |

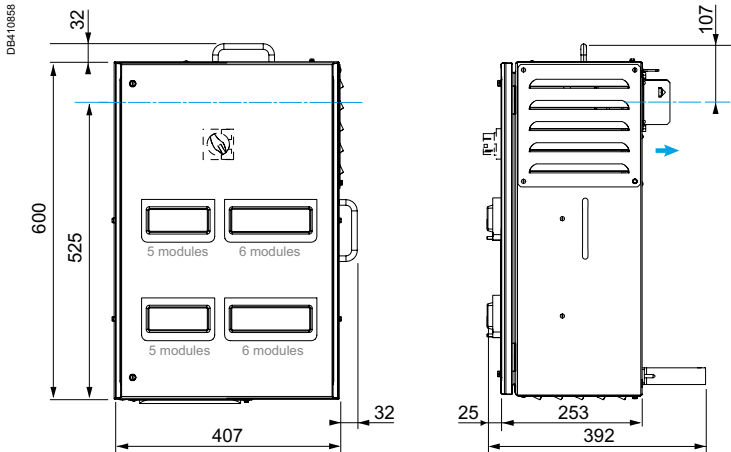
|                     |                        |
|---------------------|------------------------|
| Available Area (mm) | 16 x Ø25.5 + 3 x Ø40.5 |
|---------------------|------------------------|

|            |                 |
|------------|-----------------|
| Connection | Acti9 Terminals |
|------------|-----------------|

|                                   |                   |
|-----------------------------------|-------------------|
| Maximum Rigid Cable Size (mm²)    | See Acti9 catalog |
| Maximum Flexible Cable Size (mm²) | See Acti9 catalog |

NSX250: Extended rotary handle  
LV429338

|                                   |       |
|-----------------------------------|-------|
| <b>Additional Characteristics</b> |       |
| IP                                | IP31  |
| Color                             | White |
| Weight (kg)                       | 14    |
| Selling Unit                      | 1     |
| MOQ                               | 1     |



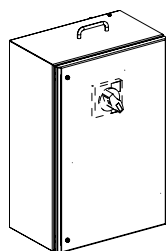
KSB250 SM •

# Rising main offer

## Connectors and Tap-off units

### Switching with an extended rotary handle located on the door

DD230165



KSB250 DC 4

**Delivered equipped with a mounting plate for 1 Circuit Breaker  
For NSX Circuit breaker (Tap-off unit mountable over the junction unit)**

**Cat. n°** KSB250DC4SP  
**Compatible with** KSA100 to 1000

**Rating (A)** 250  
**Polarity** 3L + N + PE  
**Phase Diagram**

#### Cabling

**Protection Type** NSX250 - N, H, L  
(Not Supplied)

**Body Material** Metal  
**Cable Output** 2 lateral 1.5 mm steel  
cable plates  
245 x 130  
**Available** 2 x (215 x 100)  
**Area (mm)**

**Connection** On NSX Terminals

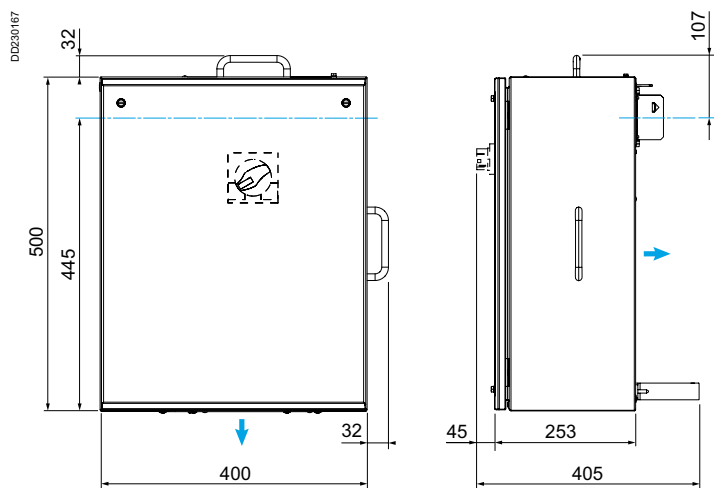
**Maximum Rigid** See NSX catalog  
**Cable Size (mm²)**  
**Maximum Flexible** See NSX catalog  
**Cable Size (mm²)**

NSX250: Extended  
rotary handle  
LV429338

F

#### Additional Characteristics

**IP** IP55  
**Color** White  
**Weight (kg)** 15.8  
**Selling Unit** 1  
**MOQ** 1



KSB250 DC 4

# Canalis KS range

## Missing link offer (Express delivery)

A selection of made-to-measure products in fast delivery

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|                                        |          |
|----------------------------------------|----------|
| Description.....                       | page 189 |
| Overview .....                         | page 191 |
| Commercial numbers and dimensions..... | page 190 |

## Description

### Missing Link offer

#### From 100 to 1000 A

A missing link is generally the last element to be installed in a run.

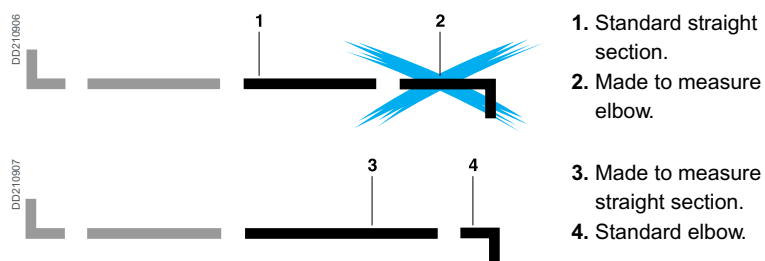
Dimensions are measured on site after the installation of all standard elements.

It could also be an element to be delivered in shorter time after a change or a repair.

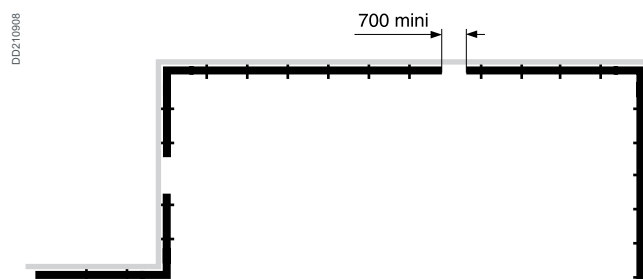
Missing link offer is a special service by Schneider Electric. It consists in dedicated commercial references of a made to measure element (a straight length or an elbow, with or without fire barrier) delivered in Express, on site, in a robust wooden box.

#### Some advice to correctly define your missing link.

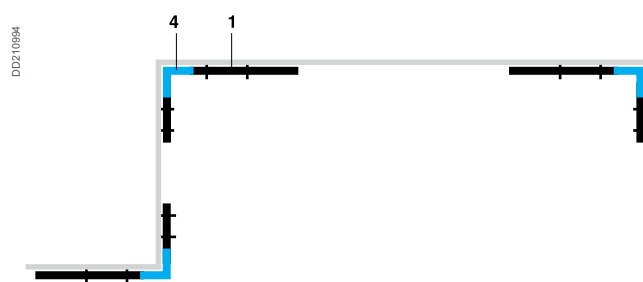
Ideally select a straight section to be a Missing link.



On the drawing, provide a minimum dimension of 700 mm to provide an adjustment of  $\pm 200$  mm on-site. The minimum length of straight sections being equal to 500 mm.



In order to provide for the place needed for undecided section, install the elbows and the sections attached to the elbows in each angle (support each assembly using 2 supports on each straight section).



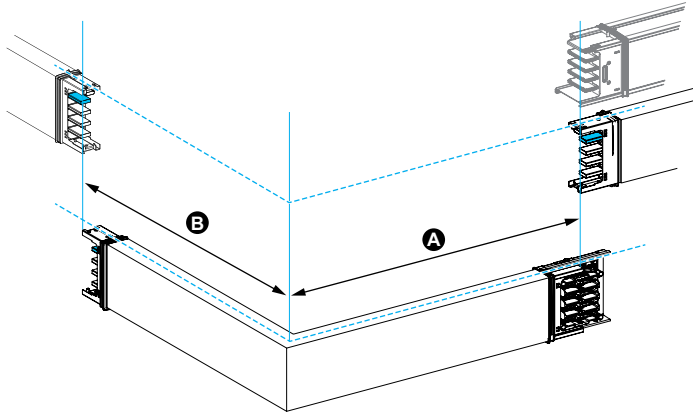
And then complete the layout with standard and made to measure straight sections.

## Description

# Missing Link offer

From 100 to 1000 A

### Elbows – How to measure



**A** = dimension is measured from the bottom edge of the element on the right up to the axis of **B** side.

**B** = dimension is measured from the bottom edge of the element on the left up to the axis of **A** side.

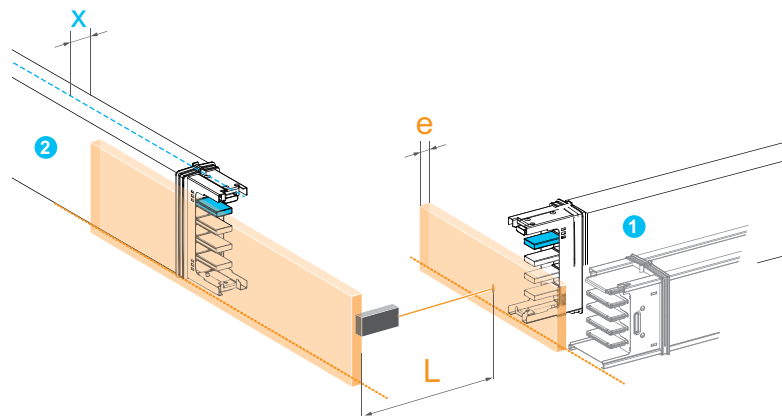
**A** and **B** = dimensions can be adjusted in increments of 5 mm, rounded down to the nearest multiple of 5 mm.

For example: measurement is 768 mm. **A** will be 765.

Place a piece of wood or equivalent against the extremity of the element **1** with a thickness of "e" mm (You can use the protective piece of wood delivered with the element).

Place a piece of wood or equivalent all along the element **2**.

With a laser or equivalent, measure the distance "L" between the side of element **2** to the extremity of element **1**.



Calculate **A** of the elbow with the formula (mm): **A = L + e - x**

For KS100 to KS400 edgewise: x = 27 mm and for KS500 to KS1000: x = 61 - DLE and DLF elbows, or flatwise installation, x = 73 mm

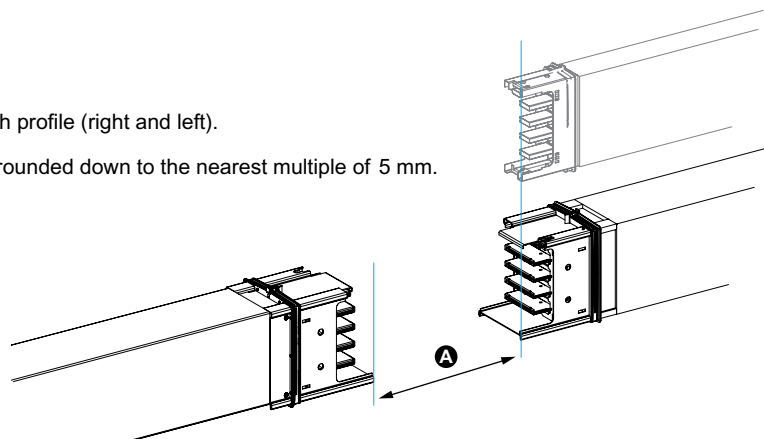
### Straight Length – How to measure

Both elements must be perfectly aligned.

Measure the distance between the bottom edge of each profile (right and left).

**A** dimension can be adjusted in increments of 5 mm, rounded down to the nearest multiple of 5 mm.

For example: measurement is 768 mm. **A** will be 765.



## Offer overview

## Busbar ratings (A)

| 100 | 160 | 250 | 400 | 500 | 630 | 800 | 1000 A |
|-----|-----|-----|-----|-----|-----|-----|--------|
|-----|-----|-----|-----|-----|-----|-----|--------|

## Straight lengths

## Horizontal mounting

For transport (without outlets) - 3L+N+PE

Made-to-measure

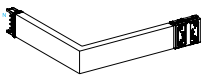
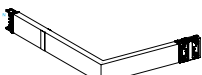
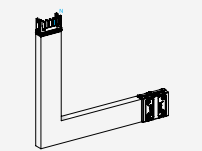
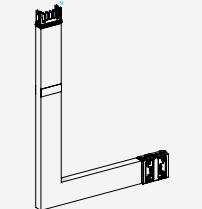
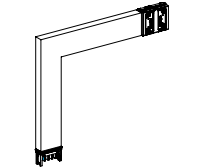
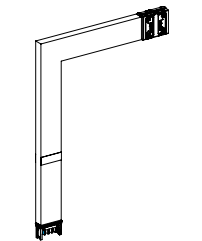
|                |             |             |             |             |             |             |              |              |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| 500 to 1900 mm | KSA250ET4AM | KSA250ET4AM | KSA250ET4AM | KSA400ET4AM | KSA630ET4AM | KSA630ET4AM | KSA1000ET4AM | KSA1000ET4AM |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|

Made-to-measure - With 1 fire barrier free positioning

|                |              |              |              |              |              |              |               |               |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| 700 to 1900 mm | KSA250ET4AFM | KSA250ET4AFM | KSA250ET4AFM | KSA400ET4AFM | KSA630ET4AFM | KSA630ET4AFM | KSA1000ET4AFM | KSA1000ET4AFM |
|----------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|

## Change direction elements

## Elbows - 3L+N+PE

|                                                                                                          |                                      |               |               |               |                                      |               |                |                |
|----------------------------------------------------------------------------------------------------------|--------------------------------------|---------------|---------------|---------------|--------------------------------------|---------------|----------------|----------------|
|                         | A = (200 to 750) x B = (200 to 750)  |               |               |               | A = (290 to 800) x B = (290 to 800)  |               |                |                |
|                                                                                                          | KSA250DLC4AM                         | KSA250DLC4AM  | KSA250DLC4AM  | KSA400DLC4AM  | KSA630DLC4AM                         | KSA630DLC4AM  | KSA1000DLC4AM  | KSA1000DLC4AM  |
| <br>With fire barrier   | A = (250 to 750) x B = (700 to 1200) |               |               |               | A = (290 to 800) x B = (700 to 1200) |               |                |                |
|                                                                                                          | KSA250DLC4CFM                        | KSA250DLC4CFM | KSA250DLC4CFM | KSA400DLC4CFM | KSA630DLC4CFM                        | KSA630DLC4CFM | KSA1000DLC4CFM | KSA1000DLC4CFM |
|                        | A = (250 to 750) x B = (250 to 750)  |               |               |               | A = (290 to 800) x B = (290 to 800)  |               |                |                |
|                                                                                                          | KSA250DLE4AM                         | KSA250DLE4AM  | KSA250DLE4AM  | KSA400DLE4AM  | KSA630DLE4AM                         | KSA630DLE4AM  | KSA1000DLE4AM  | KSA1000DLE4AM  |
| <br>With fire barrier | A = (250 to 750) x B = (700 to 1200) |               |               |               | A = (290 to 800) x B = (700 to 1200) |               |                |                |
|                                                                                                          | KSA250DLE4CFM                        | KSA250DLE4CFM | KSA250DLE4CFM | KSA400DLE4CFM | KSA630DLE4CFM                        | KSA630DLE4CFM | KSA1000DLE4CFM | KSA1000DLE4CFM |
|                       | A = (250 to 750) x B = (250 to 750)  |               |               |               | A = (290 to 800) x B = (290 to 800)  |               |                |                |
|                                                                                                          | KSA250DLF4AM                         | KSA250DLF4AM  | KSA250DLF4AM  | KSA400DLF4AM  | KSA630DLF4AM                         | KSA630DLF4AM  | KSA1000DLF4AM  | KSA1000DLF4AM  |
| <br>With fire barrier | A = (250 to 750) x B = (700 to 1200) |               |               |               | A = (290 to 800) x B = (700 to 1200) |               |                |                |
|                                                                                                          | KSA250DLF4CFM                        | KSA250DLF4CFM | KSA250DLF4CFM | KSA400DLF4CFM | KSA630DLF4CFM                        | KSA630DLF4CFM | KSA1000DLF4CFM | KSA1000DLF4CFM |

"KS.....": Reference specifically adapted to the rating of the busbar trunking

"KS.....": Compatible reference with the rating of the busbar trunking

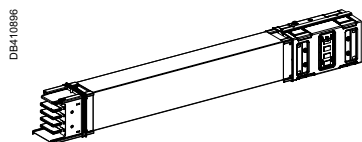
## Missing link offer (Express delivery)

## Straight lengths

## Made-to-measure


**For Transport (without Outlets)**  
**Horizontal mounting**

KSA100 to 400 ET4AM



KSA500 to 1000 ET4AM

| Cat. n°                           | KSA250ET4AM   | KSA400ET4AM | KSA630ET4AM    | KSA1000ET4AM   |
|-----------------------------------|---------------|-------------|----------------|----------------|
| Compatible with                   | KSA100 to 250 | KSA400      | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm)                | 500 to 1900   | 500 to 1900 | 500 to 1900    | 500 to 1900    |
| Rating (A)                        | 250           | 400         | 630            | 1000           |
| Polarity                          | 3L + N + PE   | 3L + N + PE | 3L + N + PE    | 3L + N + PE    |
| <b>Characteristics</b>            |               |             |                |                |
| Fire Barrier                      | No            | No          | No             | No             |
| <b>Additional Characteristics</b> |               |             |                |                |
| IP                                | IP55          | IP55        | IP55           | IP55           |
| Color                             | White         | White       | White          | White          |
| Weight (kg)                       | 8             | 10          | 30             | 32,2           |
| Selling Unit                      | 1             | 1           | 1              | 1              |
| MOQ                               | 1             | 1           | 1              | 1              |

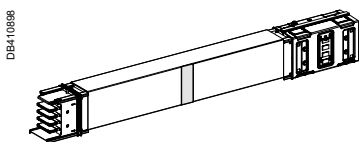
A dimension can be adjusted in increments of 5 mm. See A minimum and maximum.

To order, indicate for example: KSA400ETA4M, A = 710 mm

## Made-to-measure - With 1 fire barrier


**For Transport (without Outlets)**  
**Horizontal mounting**

KSA100 to 400 ET4AFM



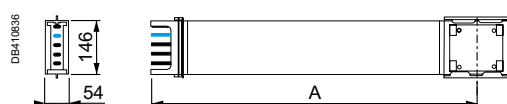
KSA500 to 1000 ET4AFM

| Cat. n°                           | KSA250ET4AFM                 | KSA400ET4AFM                 | KSA630ET4AFM                 | KSA1000ET4AFM                |
|-----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Compatible with                   | KSA100 to 250                | KSA400                       | KSA500 to 1000               | KSA500 to 1000               |
| A in the line (mm)                | 800 to 1900                  | 800 to 1900                  | 800 to 1900                  | 800 to 1900                  |
| Rating (A)                        | 250                          | 400                          | 630                          | 1000                         |
| Polarity                          | 3L + N + PE                  | 3L + N + PE                  | 3L + N + PE                  | 3L + N + PE                  |
| <b>Characteristics</b>            |                              |                              |                              |                              |
| Fire Barrier                      | Yes                          | Yes                          | Yes                          | Yes                          |
| Fire Barrier Position             | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde | Minimum 400 mm from the egde |
| <b>Additional Characteristics</b> |                              |                              |                              |                              |
| IP                                | IP55                         | IP55                         | IP55                         | IP55                         |
| Color                             | White                        | White                        | White                        | White                        |
| Weight (kg)                       | 8,2                          | 10                           | 30                           | 37                           |
| Selling Unit                      | 1                            | 1                            | 1                            | 1                            |
| MOQ                               | 1                            | 1                            | 1                            | 1                            |

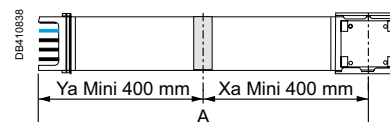
A dimension can be adjusted in increments of 5 mm. See A minimum and maximum.

Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya minimum.

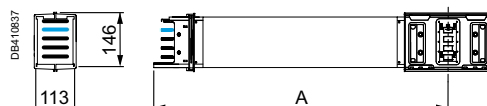
To order, indicate for example: KSA400ETA4FM, A = 950mm, Xa = 450, Ya = 500



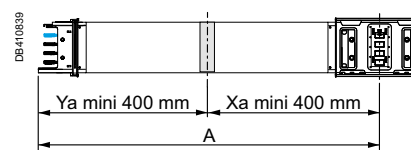
KSA100 to 400 ET •A



KSA100 to 400ET4AFM



KSA500 to 1000 ET •A



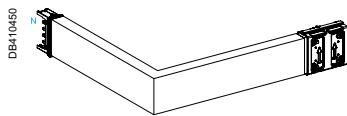
KSA500 to 1000ET4AFM



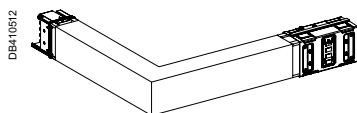
# Missing link offer (Express delivery)

## Change direction elements

### Elbows



KSA100 to 400 DLC 4A



KSA500 to 1000 DLC 4A

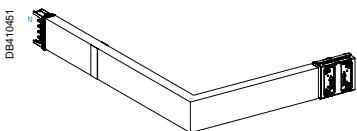
To turn Right or Left at 90° (Edgewise position)  
Sides A and B are made-to-measure

| Cat. n°                           | KSA250DLC4AM  | KSA400DLC4AM | KSA630DLC4AM   | KSA1000DLC4AM  |
|-----------------------------------|---------------|--------------|----------------|----------------|
| Compatible with                   | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm)                | 400 to 1500   | 400 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)                        | 250           | 400          | 630            | 1000           |
| Polarity                          | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |
| <b>Dimensions</b>                 |               |              |                |                |
| A (mm)                            | 200 to 750    | 200 to 750   | 290 to 800     | 290 to 800     |
| B (mm)                            | 200 to 750    | 200 to 750   | 290 to 800     | 290 to 800     |
| Fire Barrier                      | No            | No           | No             | No             |
| <b>Additional Characteristics</b> |               |              |                |                |
| IP                                | IP55          | IP55         | IP55           | IP55           |
| Color                             | White         | White        | White          | White          |
| Weight (kg)                       | 18            | 20           | 17             | 17,5           |
| Selling Unit                      | 1             | 1            | 1              | 1              |
| MOQ                               | 1             | 1            | 1              | 1              |

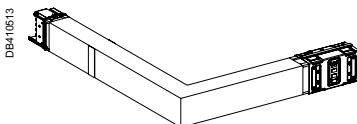
A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLC4AM, A = 500, B = 500

### Elbows



KSA100 to 400 DLC 4CF



KSA500 to 1000 DLC 4CF

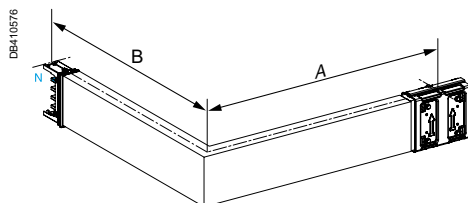
To turn Right or Left at 90° (Edgewise position)  
Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°                           | KSA250DLC4CFM                       | KSA400DLC4CFM                       | KSA630DLC4CFM                       | KSA1000DLC4CFM                      |
|-----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Compatible with                   | KSA100 to 250                       | KSA400                              | KSA500 to 1000                      | KSA500 to 1000                      |
| A in the line (mm)                | 900 to 1950                         | 900 to 1950                         | 980 to 2000                         | 980 to 2000                         |
| Rating (A)                        | 250                                 | 400                                 | 630                                 | 1000                                |
| Polarity                          | 3L + N + PE                         | 3L + N + PE                         | 3L + N + PE                         | 3L + N + PE                         |
| <b>Dimensions</b>                 |                                     |                                     |                                     |                                     |
| A (mm)                            | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| B (mm)                            | (200 to 750) or (700 to 1200) if FB | (200 to 750) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB | (290 to 800) or (700 to 1200) if FB |
| Fire Barrier                      | Yes                                 | Yes                                 | Yes                                 | Yes                                 |
| Fire Barrier Position             | Either on side A or B               | Either on side A or B               | Either on side A or B               | Either on side A or B               |
| <b>Additional Characteristics</b> |                                     |                                     |                                     |                                     |
| IP                                | IP55                                | IP55                                | IP55                                | IP55                                |
| Color                             | White                               | White                               | White                               | White                               |
| Weight (kg)                       | 15                                  | 17                                  | 12                                  | 12,5                                |
| Selling Unit                      | 1                                   | 1                                   | 1                                   | 1                                   |
| MOQ                               | 1                                   | 1                                   | 1                                   | 1                                   |

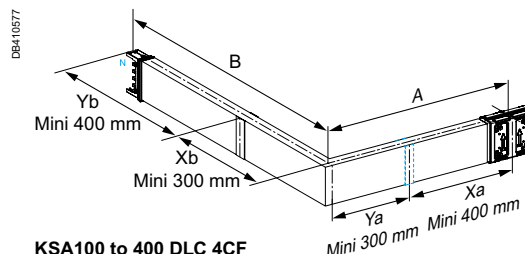
A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

One Fire barrier can be positioned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum

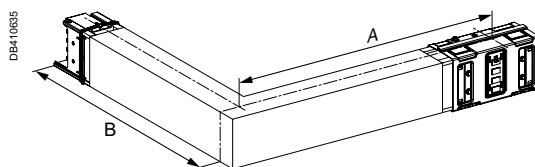
To order, indicate for example: KSA400DLC4CFM, A = 500, B = 900, Xb = 450, Yb = 450



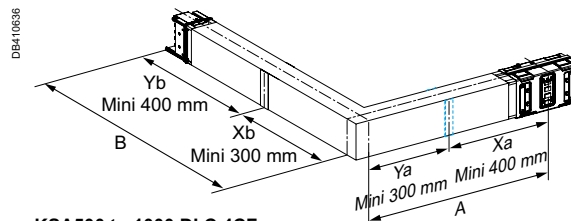
KSA100 to 400 DLC 4A



KSA100 to 400 DLC 4CF



KSA500 to 1000 DLC 4A

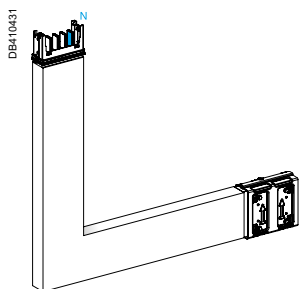


KSA500 to 1000 DLC 4CF

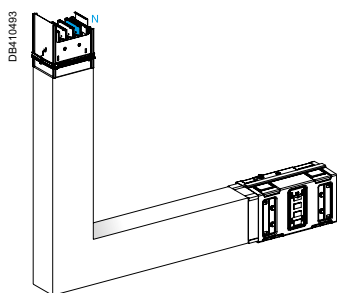
## Missing link offer (Express delivery)

## Change direction elements

## Elbows



KSA100 to 400 DLE 4A



KSA500 to 1000 DLE 4A

To go Upward at 90° (Edgewise position)  
Sides A and B are made-to-measure

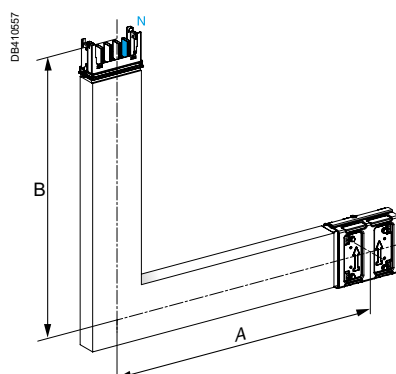
| Cat. n°            | KSA250DLE4AM  | KSA400DLE4AM | KSA630DLE4AM   | KSA1000DLE4AM  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

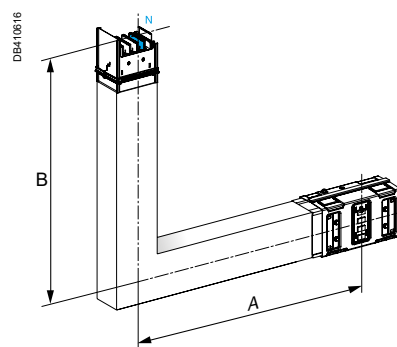
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 34    | 42    | 19    | 19,5  |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLE4AM, A = 500, B = 500



KSA100 to 400 DLE 4A

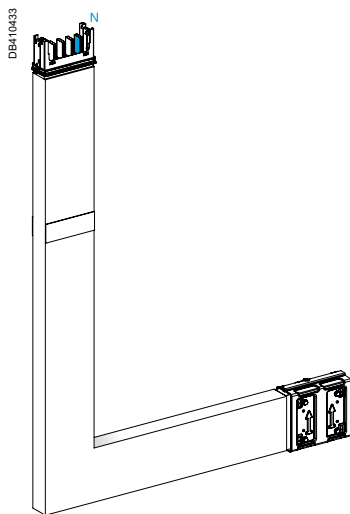


KSA500 to 1000 DLE 4A

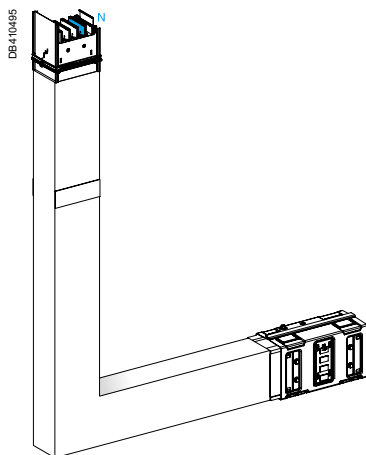
# Missing link offer (Express delivery)

## Change direction elements

### Elbows



KSA100 to 400 DLE 4CF



KSA500 to 1000 DLE 4CF

#### To go Upward at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°            | KSA250DLE4CFM | KSA400DLE4CFM | KSA630DLE4CFM  | KSA1000DLE4CFM |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1950   | 950 to 1950   | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

#### Dimensions

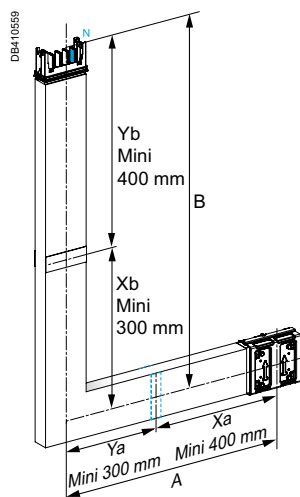
|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | -                                      | -                                      | -                                      | -                                      |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  |

#### Additional Characteristics

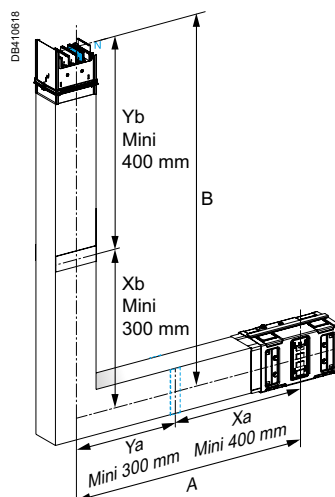
|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 20    | 24    | 11    | 11,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positioned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum.

To order, indicate for example: KSA400DLE4CFM, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLE 4CF

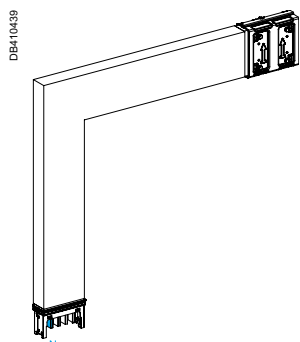


KSA500 to 1000 DLE 4CF

## Missing link offer (Express delivery)

## Change direction elements

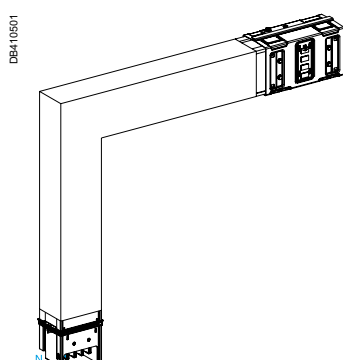
## Elbows



**To go Downward at 90° (Edgewise position)**  
Sides A and B are made-to-measure

| Cat. n°            | KSA250DLF4AM  | KSA400DLF4AM | KSA630DLF4AM   | KSA1000DLF4AM  |
|--------------------|---------------|--------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400       | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 500 to 1500   | 500 to 1500  | 580 to 1600    | 580 to 1600    |
| Rating (A)         | 250           | 400          | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE  | 3L + N + PE    | 3L + N + PE    |

KSA100 to 400 DLF 4A



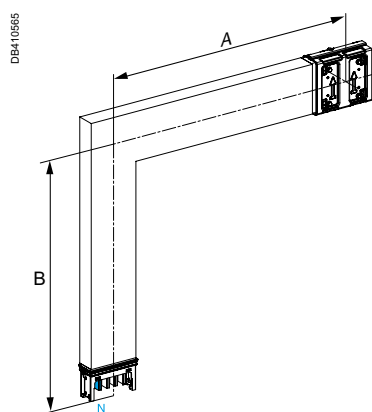
| Dimensions            |            |            |            |            |
|-----------------------|------------|------------|------------|------------|
| A (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| B (mm)                | 250 to 750 | 250 to 750 | 290 to 800 | 290 to 800 |
| C (mm)                | -          | -          | -          | -          |
| D (mm)                | -          | -          | -          | -          |
| Fire Barrier          | No         | No         | No         | No         |
| Fire Barrier Position | -          | -          | -          | -          |

KSA500 to 1000 DLF 4A

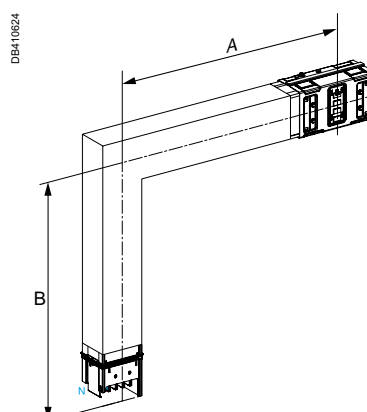
| Additional Characteristics |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| IP                         | IP55  | IP55  | IP55  | IP55  |
| Color                      | White | White | White | White |
| Weight (kg)                | 34    | 42    | 19    | 19,5  |
| Selling Unit               | 1     | 1     | 1     | 1     |
| MOQ                        | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum.

To order, indicate for example: KSA400DLF4AM, A = 500, B = 500



KSA100 to 400 DLF 4A

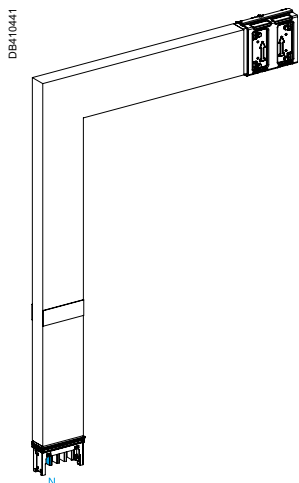


KSA500 to 1000 DLF 4A

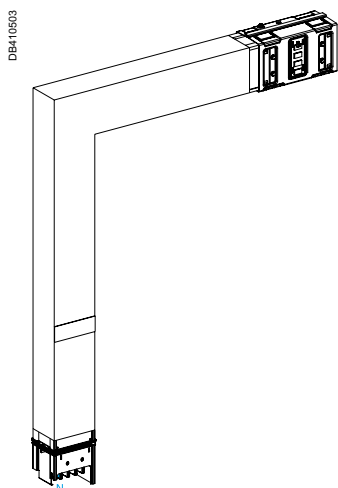
# Missing link offer (Express delivery)

## Change direction elements

### Elbows



KSA100 to 400 DLF 4CF



KSA500 to 1000 DLF 4CF

#### To go Downward at 90° (Edgewise position)

Sides A and B are made-to-measure including 1 Fire Barrier (FB) on 1 side

| Cat. n°            | KSA250DLF4CFM | KSA400DLF4CFM | KSA630DLF4CFM  | KSA1000DLF4CFM |
|--------------------|---------------|---------------|----------------|----------------|
| Compatible with    | KSA100 to 250 | KSA400        | KSA500 to 1000 | KSA500 to 1000 |
| A in the line (mm) | 950 to 1950   | 950 to 1950   | 990 to 2000    | 990 to 2000    |
| Rating (A)         | 250           | 400           | 630            | 1000           |
| Polarity           | 3L + N + PE   | 3L + N + PE   | 3L + N + PE    | 3L + N + PE    |

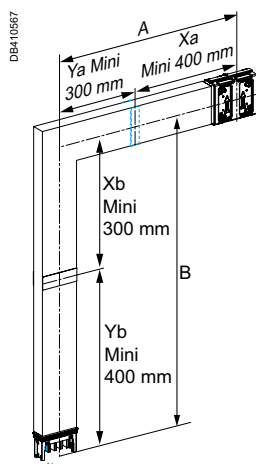
#### Dimensions

|                       |                                        |                                        |                                        |                                        |
|-----------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| A (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| B (mm)                | (250 to 750) or<br>(700 to 1200) if FB | (250 to 750) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB | (290 to 800) or<br>(700 to 1200) if FB |
| C (mm)                | -                                      | -                                      | -                                      | -                                      |
| D (mm)                | -                                      | -                                      | -                                      | -                                      |
| Fire Barrier          | Yes                                    | Yes                                    | Yes                                    | Yes                                    |
| Fire Barrier Position | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  | Either on side A or B                  |

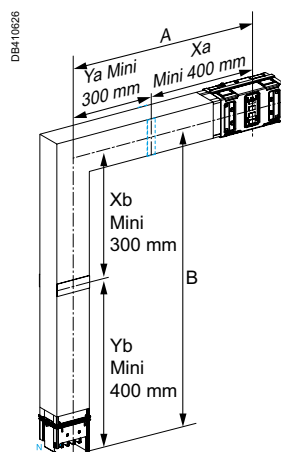
#### Additional Characteristics

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| IP           | IP55  | IP55  | IP55  | IP55  |
| Color        | White | White | White | White |
| Weight (kg)  | 20    | 24    | 11    | 11,5  |
| Selling Unit | 1     | 1     | 1     | 1     |
| MOQ          | 1     | 1     | 1     | 1     |

A and B dimensions can be adjusted in increments of 5 mm. See A and B minimum and maximum. One Fire barrier can be positioned on side A or on side B. Fire barrier position is adjustable in increments of 10 mm respecting the Xa and Ya or Xb and Yb minimum. To order, indicate for example: KSA400DLF4CFM, A = 500, B = 900, Xb = 450, Yb = 450



KSA100 to 400 DLF 4CF



KSA500 to 1000 DLF 4CF

# Simplified study and design guide

Simplified study guide for the design of a power distribution line in Canalis busbar trunking.....page 199

Simplified design guide:  
Determining the degree of protection.....page 204

# Simplified study guide for the design of a power distribution line in Canalis busbar trunking

Except in extreme atmospheres,  
there's no longer any need to hesitate.  
Canalis can be installed anywhere!

"The chronology described below aims to present the steps for the execution of a **simple** installation. For a detailed study, it is recommended to use appropriate tools, certified by the inspection organisations, in accordance with local installation standards. The **Ecodial** software, published by Schneider Electric, meets this need".

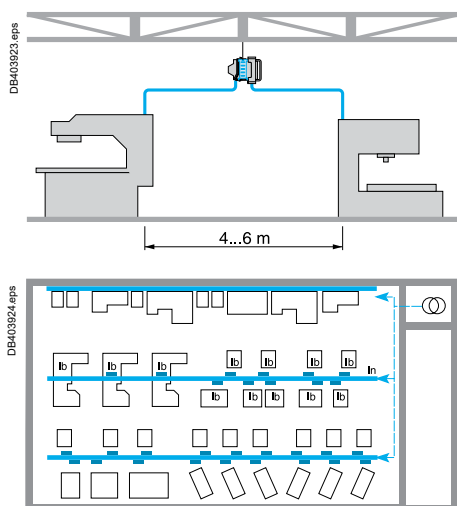
A study grid, enabling you to note your choices and store them, is available on page 202 (to be detached or photocopied).

## 1 IDENTIFY EXTERNAL INFLUENCES

The ambient temperature, presence of dust, condensation water, etc. contribute to the definition of the degree of protection required by the room in which electrical installation will be performed.

Canalis KS and KN prefabricated electrical busbar trunking are IP55 by design and can be installed in nearly all premises. (See description of the degree of protection (IP) page 204).

## 2 LOCATION OF LOADS AND TRUNKING INSTALLATION METHOD



The layout of the distribution lines depends on the location of the loads, the location of the power supply source and the mounting possibilities.

- A single distribution line serves an area of 4 to 6 metres long.
- Load protection is located in the tap-off unit positioned as close as possible to the load.
- A single Canalis busbar trunking system powers a series of loads of various capacities.

## 3 POWER BALANCE: CALCULATION OF CURRENTS CONSUMED ON EACH DISTRIBUTION LINE

Calculation of the total operating current ( $I_n$ ) consumed on a line:

$$I_n \text{ operating} = \sum I_b$$

$I_b$  = current consumed by each load

**BUT**

Since the loads do not all operate at the same time and are not constantly at full capacity, it is necessary to allow for the growth factor or coincidence factor ( $K_s$ ):

$$I_n \text{ operating} = \sum (I_b \times K_s).$$

The diversity factor  $K_s$  depends on the type and number of loads.

| Application           | Number of loads | $K_s$ factor |
|-----------------------|-----------------|--------------|
| Lighting, heating     | -               | 1            |
| Distribution          | 2...3           | 0.9          |
| (Mechanical workshop) | 4...5           | 0.8          |
|                       | 6...9           | 0.7          |
|                       | 10...40         | 0.6          |
|                       | 40 and more     | 0.5          |

**MOREOVER**

For industrial installations, take into account growth in the installed machinery base. A 20% margin is recommended:  $I_n \text{ operating} = \sum I_b \times K_s \times 1.2$

## Simplified study guide

for the design of a power distribution line  
in Canalis busbar trunking**4 CHOICE OF CANALIS TRUNKING CORRESPONDING TO  $I_n$  OPERATING**

By calculating " $I_n$ " operating you can determine " $I_n$  trunking" and hence the trunking to be installed.

Select the trunking for which the " $I_n$  trunking" is directly greater than " $I_n$  operating".

Table 1

| Total operating current $I_n$ (A) | Trunking         |
|-----------------------------------|------------------|
| 40                                | KNA40            |
| 63                                | KNA63            |
| 100                               | KNA100 or KSA100 |
| 160                               | KNA160 or KSA160 |
| 250                               | KSA250           |
| 400                               | KSA400           |
| 500                               | KSA500           |
| 630                               | KSA630           |
| 800                               | KSA800           |
| 1000                              | KSA1000          |

**5 TEMPERATURE DERATING. CALCULATION OF  $I_z$ : PERMISSIBLE CURRENT  $I_n$  TRUNKING**

Canalis trunkings are designed to operate in an ambient temperature of 35°C.

Above this temperature, the trunking should be derated as per the following table.

| Permissible current according to ambient temperature | $I_z$ |    |      |      |      |      |
|------------------------------------------------------|-------|----|------|------|------|------|
| Ambient temperature                                  | < 35  | 35 | 40   | 45   | 50   | 55   |
| K1 factor                                            | None  | 1  | 0.97 | 0.94 | 0.91 | 0.87 |

Example: Canalis trunking KSA400 A at 45°C:  $I_z = I_n \text{ trunking} \times K1 = 400 \times 0.94 = 376 \text{ A}$ .

Check that  $I_z > I_n$  operating and check the actual reserve. If necessary, select the next larger trunking.

**6 DERATING ACCORDING TO INSTALLATION METHOD**

Canalis KS trunking is designed to be installed edgewise. However, it can also be mounted flat **WITHOUT** derating.

**7 OVERLOAD PROTECTION**

To allow extensions at any time, the prefabricated trunkings are generally protected at nominal current " $I_n$  trunking" (or at permissible current  $I_z$  if the K1 factor is applied according to the ambient temperature).

Depending on the type of protective device adopted, determine the standardised nominal current " $I_n$  protection" of the overload protection device such that:

| $I_n \text{ protection} \leq I_z / K2$ | K2: Factor specific to the type of protective device |
|----------------------------------------|------------------------------------------------------|
|                                        | Protection by circuit breaker: $K2 = 1$              |
|                                        | Protection by gG/gI fuses: $K2 = 1.1$                |

Choose the equal or immediately lower standardised rating  $I_n$  (protection).

**Fuses:** the typical ratings are given following the series of characteristic numbers of the "Renard" series. Example: 40 - 50 - 63 - 80 - 100 - 125 - 160 - 200, etc

**Circuit breakers:** the typical ratings found at Schneider Electric are, for example: 10-16-20-25-32-40-50-63-80-100-125-160-250-400-630, etc.

Finally, confirm the following condition:  $I_n \text{ standardised protection} \geq I_n \text{ operating}$ . If this is not the case, choose the immediately larger trunking and adjust the calculations.



# Simplified study guide

## for the design of a power distribution line in Canalis busbar trunking

### 8 VERIFICATION OF VOLTAGE DROP

The voltage drop between the source and any point of use must not exceed the values in the following table:

Table 2

| Installation supplied by a distribution network | Lighting | Other application |
|-------------------------------------------------|----------|-------------------|
| LV public system                                | 3%       | 5%                |
| HV voltage                                      | 6%       | 8%                |

The line-to-line voltage drop, during operation, is indicated in volts per 100 metre per ampere (V/100 m/A), at 50 Hz, with distributed loads on the Canalis line. In the case of a load concentrated at the end of a line, the value of the voltage drop is twice the indicated value.

Table 3

| For a power factor $\phi$ of | KS        | 100 A | 160 A | 250 A | 400 A | 500 A | 630 A | 800 A | 1000 A |
|------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1                            | V/100 m/A | 0.138 | 0.067 | 0.034 | 0.018 | 0.013 | 0.011 | 0.008 | 0.005  |
| 0.9                          | V/100 m/A | 0.130 | 0.066 | 0.036 | 0.022 | 0.014 | 0.013 | 0.009 | 0.007  |
| 0.8                          | V/100 m/A | 0.118 | 0.061 | 0.035 | 0.022 | 0.014 | 0.013 | 0.009 | 0.007  |
| 0.7                          | V/100 m/A | 0.106 | 0.056 | 0.034 | 0.021 | 0.013 | 0.012 | 0.009 | 0.008  |

This table applies to the three-phase network. To obtain the single-phase voltage drop, the three-phase voltage drop shown above is divided by 1.732. Check that the calculated voltage drop is < to the maximum voltage drop wanted.

### 9 PROTECTION AGAINST SHORT CIRCUITS

For standard installations with installed capacities of up to 630 kVA, by using the Schneider Electric product offering, the low-voltage electrical switchboard, circuit breakers and even Canalis trunking, your installation can be sized to cope with all levels of short circuits encountered.

To verify the correct configuration of your installation (Icc up to 150 kA), refer to the coordination tables pages 221 to 222.

We also invite you to discover Ecodial, our design and computation software dedicated to low-voltage electrical networks (choice of circuit breaker type, calculation of breaking capacity, short-circuit currents, voltage drops, selection of cables, etc.). Ask your Schneider Electric representative about it.

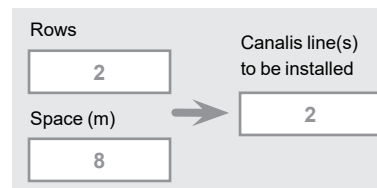
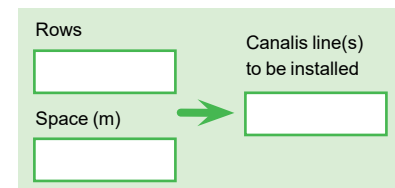
## Simplified study guide

for the design of a power distribution line  
in Canalis busbar trunking**1 IDENTIFY EXTERNAL INFLUENCES**

Minimum IP of equipment installed in the room:

**2 LOCATION OF LOADS AND TRUNKING INSTALLATION METHOD**

| Row spacing<br>(m)                 | Row(s) of receivers |       |       |
|------------------------------------|---------------------|-------|-------|
| From 2 to 6 m                      | 1<br>               | 2<br> | 3<br> |
| Canalis line(s)<br>to be installed | 1                   | 1     | 2     |
| > 6 m                              |                     |       |       |
| Canalis line(s)<br>to be installed | 1                   | 2     | 3     |

**EXAMPLE****YOUR INSTALLATION****3 POWER BALANCE: CALCULATION OF CURRENTS CONSUMED ON EACH DISTRIBUTION LINE**

|                              | EXAMPLE | LINE 1               | LINE 2               | LINE 3               | LINE 4               |
|------------------------------|---------|----------------------|----------------------|----------------------|----------------------|
| No. of loads                 | 6       | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                              | X       | X                    | X                    | X                    | X                    |
| Average current Ib (A)       | 50      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                              | X       | X                    | X                    | X                    | X                    |
| Diversity factor Ks          | 0.7     | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                              | X       | X                    | X                    | X                    | X                    |
| Reserve factor<br>(e.g. 1.2) | 1.2     | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
|                              | =       | =                    | =                    | =                    | =                    |
| In operating (A)             | 252     | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

**4 CHOICE OF CANALIS TRUNKING CORRESPONDING TO In**

|                                     | EXAMPLE | LINE 1               | LINE 2               | LINE 3               | LINE 4               |
|-------------------------------------|---------|----------------------|----------------------|----------------------|----------------------|
| Trunking to be installed<br>Table 1 | KS400   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| In trunking (A)<br>Table 1          | 400     | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Check  $I_z > I_n$  operating

# for the design of a power distribution line in Canalis busbar trunking

## 5 TEMPERATURE DERATING. CALCULATION OF $I_z$ : PERMISSIBLE CURRENT In TRUNKING

|                                                          | EXAMPLE | LINE 1 | LINE 2 | LINE 3 | LINE 4 |
|----------------------------------------------------------|---------|--------|--------|--------|--------|
| T° ambient (°C)                                          | 45      |        |        |        |        |
| Derating factor K1                                       | 0.94    |        |        |        |        |
| $I_z$ (A) = $I_n$ trunking * K1<br>= permissible current | 376     |        |        |        |        |

Check

## 6 DERATING ACCORDING TO INSTALLATION METHOD

No derating for Canalis KS placed flat or upright.

## 7 OVERLOAD PROTECTION

|                                         | EXAMPLE                                                     | LINE 1                                                      | LINE 2                                                      | LINE 3                                                      | LINE 4                                                      |
|-----------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Trunking protection                     | <input type="checkbox"/> Fuses <input type="checkbox"/> CB* | <input type="checkbox"/> Fuses <input type="checkbox"/> CB* | <input type="checkbox"/> Fuses <input type="checkbox"/> CB* | <input type="checkbox"/> Fuses <input type="checkbox"/> CB* | <input type="checkbox"/> Fuses <input type="checkbox"/> CB* |
| K2                                      | 1.1                                                         |                                                             |                                                             |                                                             |                                                             |
| $I_z$ (A)                               | 376                                                         |                                                             |                                                             |                                                             |                                                             |
| $I_n$ protection                        | 341.8                                                       |                                                             |                                                             |                                                             |                                                             |
| $I_n$ standardised of protective device | 315                                                         |                                                             |                                                             |                                                             |                                                             |
|                                         | 400<br>set at 376                                           |                                                             |                                                             |                                                             |                                                             |

\*Circuit breaker

Check  $I_n$  operating  $\leq I_z$

## 8 VERIFICATION OF VOLTAGE DROP

|                                                 | EXAMPLE | LINE 1 | LINE 2 | LINE 3 | LINE 4 |
|-------------------------------------------------|---------|--------|--------|--------|--------|
| Three-phase network voltage (V)                 | 415     |        |        |        |        |
| X                                               | X       | X      | X      | X      | X      |
| Max. voltage drop %                             | 5%      |        |        |        |        |
| Tb2                                             |         |        |        |        |        |
| =                                               |         |        |        |        |        |
| Max. voltage drop (V)                           | 20.75   |        |        |        |        |
| Length (m) of Canalis line                      | 50      |        |        |        |        |
| (a)                                             |         |        |        |        |        |
| Power factor                                    | 0.9     |        |        |        |        |
| Voltage drop (V/100m/A) Tb3                     | 0.022   |        |        |        |        |
| (b)                                             |         |        |        |        |        |
| Voltage drop (V)<br>(a/100) x b x "In trunking" | 4.4     |        |        |        |        |
| Single-phase loads                              |         |        |        |        |        |
| Voltage drop (V) x 0.866                        | 5.08    |        |        |        |        |
| Concentrated loads                              |         |        |        |        |        |
| Voltage drop (V) x 2                            | 8.80    |        |        |        |        |

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## 9 PROTECTION FROM SHORT-CIRCUITS

Refer to the coordination tables on pages 221 to 222

## Simplified design guide

# Determining the degree of protection

Standard IEC 60364-5-51 categorises a large number of external influences to which electrical installations can be subjected, for instance the presence of water, solid objects, shocks, vibrations and corrosive substances.

The importance of these influences depends on the installation conditions.

For example, the presence of water can vary from a few drops to total immersion.

## Degree of protection IP

**Standard IEC 60529 (February 2001) indicates the degree of protection provided by electrical equipment enclosures against accidental direct contact with live parts and against the ingress of solid foreign objects or water.**

This standard does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gases, fungi or vermin.

The IP code comprises 2 characteristic numerals and may include an additional letter when the actual protection of persons against direct contact with live parts is better than that indicated by the first numeral.

The first numeral characterises the protection of the equipment against penetration of solid objects and the protection of people.

The second numeral characterises the protection of the equipment against penetration of water with harmful effects.

## Remarks concerning the degree of protection IP

■ The degree of protection IP must always be read and understood numeral by numeral and not as a whole.

For example, an IP31 enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount enclosure is not suitable.

■ The degrees of protection indicated in this catalogue are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when the installation and device mounting are carried out in accordance with professional standard practice.

## Additional letter

Protection of persons against direct contact with live parts.

The additional letter is used only if the actual protection of persons is higher than that indicated by the first characteristic numeral of the IP code.

If only the protection of persons is of interest, the two characteristic numerals are replaced by the letter "X", e.g. IPXXB.

## Degree of protection IK

**Standard IEC 62262 defines a coding system (IK code) indicating the degree of protection provided by electrical equipment enclosures against external mechanical impact.**

Installation standard IEC 60364 provides a cross-reference between the various degrees of protection and the environmental conditions classification, relating to the selection of equipment according to external factors.

## IK\*\* code

The IK code comprises 2 characteristic numerals (e.g. IK05).

Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.

# Simplified design guide

## Determining the degree of protection

### Meaning of the numerals and letters representing the degree of protection IP

**1<sup>st</sup> characteristic numeral:** corresponds to protection of equipment against penetration of solid objects and protection of persons against direct contact with live parts.

| Protection of equipment                                                                                | Protection of persons                                                            |          |  |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------|--|
| Non-protected                                                                                          | Non-protected                                                                    | <b>0</b> |  |
| Protected against the penetration of solid objects having a diameter greater than or equal to 50 mm.   | Protected against direct contact with the back of the hand (accidental contact). | <b>1</b> |  |
| Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm. | Protected against direct finger contact.                                         | <b>2</b> |  |
| Protected against the penetration of solid objects having a diameter greater than or equal to 2.5 mm.  | Protected against direct contact with a 2.5 mm diameter tool.                    | <b>3</b> |  |
| Protected against the penetration of solid objects having a diameter greater than 1 mm.                | Protected against direct contact with a 1 mm diameter wire.                      | <b>4</b> |  |
| Dust protected (no harmful deposits).                                                                  | Protected against direct contact with a 1 mm diameter wire.                      | <b>5</b> |  |
| Dust tight.                                                                                            | Protected against direct contact with a 1 mm diameter wire.                      | <b>6</b> |  |

**2<sup>nd</sup> characteristic numeral:** corresponds to protection of equipment against penetration of water with harmful effects.

| Protection of equipment                                                          |          |  |
|----------------------------------------------------------------------------------|----------|--|
| Non-protected                                                                    | <b>0</b> |  |
| Protected against vertical dripping water (condensation).                        | <b>1</b> |  |
| Protected against dripping water at an angle of up to 15°.                       | <b>2</b> |  |
| Protected against rain at an angle of up to 60°.                                 | <b>3</b> |  |
| Protected against splashing water in all directions.                             | <b>4</b> |  |
| Protected against water jets in all directions.                                  | <b>5</b> |  |
| Protected against powerful jets of water and waves.                              | <b>6</b> |  |
| Protected against the effects of temporary immersion.                            | <b>7</b> |  |
| Protected against the effects of prolonged immersion under specified conditions. | <b>8</b> |  |

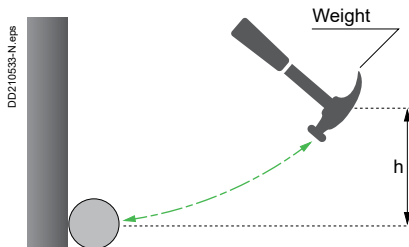
### Additional letter

Corresponds to protection of persons against direct contact with live parts.

|          |                              |
|----------|------------------------------|
| <b>A</b> | With the back of the hand.   |
| <b>B</b> | With the finger.             |
| <b>C</b> | With a 2.5 mm diameter tool. |
| <b>D</b> | With a 1.0 mm diameter tool. |

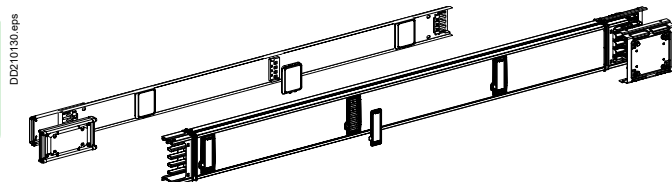
### Degrees of protection IK against mechanical impact

The IK code comprises 2 characteristic numerals corresponding to a value of impact energy, in joules.



|           | Weight (kg)   | Height (cm) | Energy (J) |
|-----------|---------------|-------------|------------|
| <b>00</b> | Non-protected |             |            |
| <b>01</b> | 0.20          | 7.50        | 0.15       |
| <b>02</b> |               | 10          | 0.20       |
| <b>03</b> |               | 17.50       | 0.35       |
| <b>04</b> |               | 25          | 0.50       |
| <b>05</b> |               | 35          | 0.70       |
| <b>06</b> | 0.50          | 20          | 1          |
| <b>07</b> |               | 40          | 2          |
| <b>08</b> | 1.70          | 30          | 5          |
| <b>09</b> | 5             | 20          | 10         |
| <b>10</b> |               | 40          | 20         |

The Canalis KN and KS busbar trunking products are designed to provide IP55D and IK08 protection.



# Characteristics and recommendations

## Characteristics and recommendations

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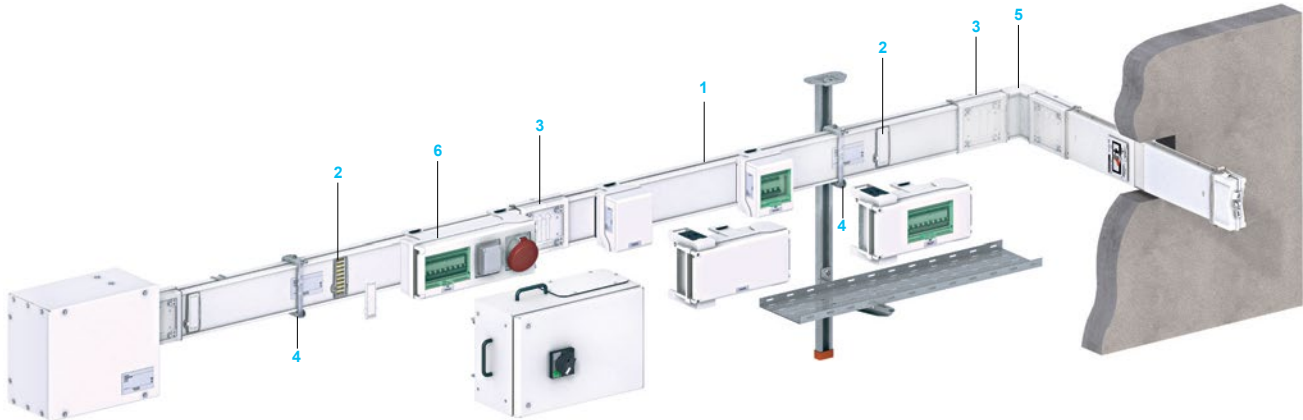
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## Characteristics and recommendations

# Technical specifications

## Horizontal trunking

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Complies with standards IEC 61439-6.

Complies with sprinkler tests, guaranteeing operation under vertically and horizontally sprayed water for 50 minutes.

Degree of protection: IP55.

Number of live conductors: 4.

Rated insulation voltage: 690 V.

Rated current ( $I_{nc}$ ): 100 A, 160 A, 250 A, 400 A, 500 A, 630 A, 800 A and 1000 A.

The cross-sectional area of the protective conductor is at least 50 % that of the phases.

### Fire resistance:

- fire barriers as per standard ISO 834 (DIN 4102-part 9) for passages through partitions.
- resistant to flame propagation in compliance with standard IEC 60332 - part 3.
- materials resistant to abnormal heat (glow-wire test as per IEC 60695-2).

### All plastic components are halogen free.

■ The enclosure (1), made of sheet steel, galvanised and pre-lacquered RAL 9001 white.

■ The four aluminium conductors are mounted on fibreglass reinforced polyester insulators. All electrical contacts are made of silver-plated copper.

■ The straight lengths have a tap-off unit (2) every metre on both sides.

The tap-off outlets are equipped with automatic shutters that avoid accidental contact with live parts. The protective conductor is electrically connected to the enclosure at each jointing unit.

■ Electrical contact between two components is ensured by flexible contacts designed to adapt to the difference in expansion between the conductors and the enclosure. It is possible to check visually that the electrical contact is effective.

The mechanical junction between two components is ensured by four captive screws. The jointing unit (3) is maintenance free.

■ The rigidity of the straight lengths is sufficient that fixing points (4) are required only every three metres (excepting special conditions).

■ Special components (5) are available to change direction or avoid obstacles.

■ The tap-off units (6) have the following characteristics:

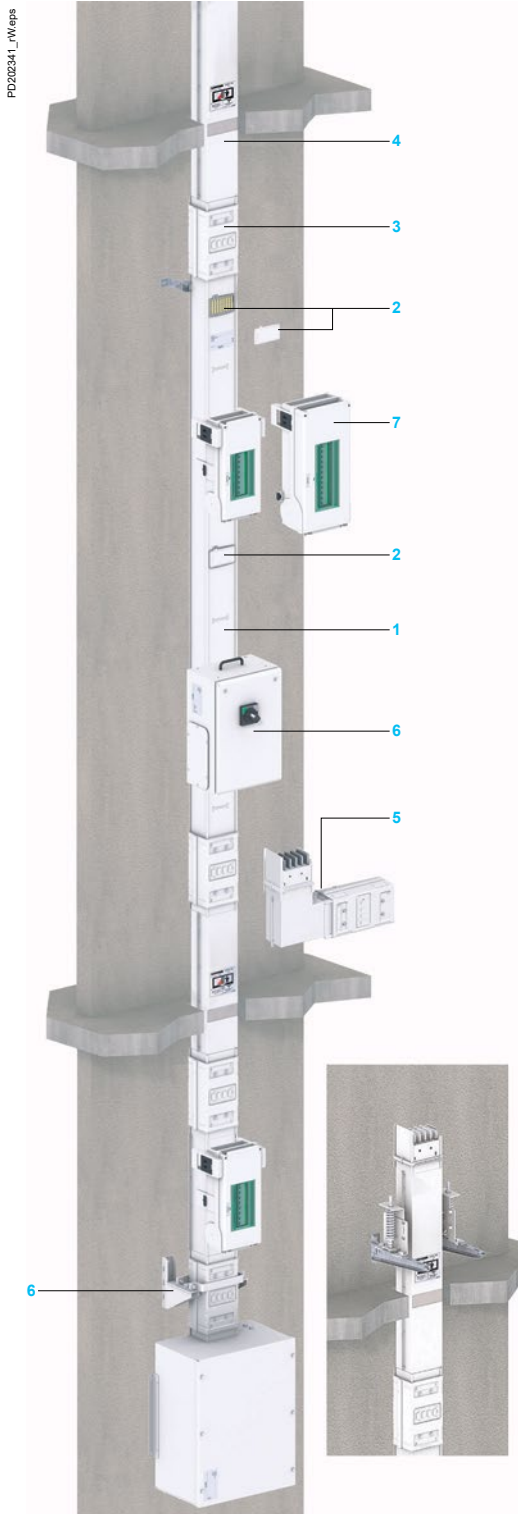
- connection and disconnection are possible only with the cover open
- the contact of the protective conductor ensures automatic opening of the shutters and feeds the tap-off unit
- there is no access to live parts when the cover of the tap-off unit is open (no finger access, IPxxD)
- when the tap-off unit is plugged in, the earthing contact connects first, followed by the phases
- it is not possible to close the cover before the tap-off unit is mechanically locked on the trunking, tap-off units can be equipped with fuses, modular devices or moulded case circuit breakers.



# Characteristics and recommendations

## Technical specifications

### Rising mains



Complies with standards IEC 61439-6.

Complies with sprinkler tests, providing operation under vertically and horizontally sprayed water for 50 minutes.

Degree of protection: IP55.

Number of live conductors: 4.

Rated insulation voltage: 690 V.

Rated current (I<sub>nc</sub>): 100 A, 250 A, 400 A, 500 A, 630 A, 800 A and 1000 A.

The cross-sectional area of the protective conductor is at least 50 % that of the phases.

#### Fire resistance:

- fire barriers as per standard ISO 834 (DIN 4102-part 9) for passages through partitions (slabs for example).
- resistant to flame propagation in compliance with standard IEC 60332 - part 3.
- materials resistant to abnormal heat (glow-wire test as per IEC 60695-2).

#### All plastic components are halogen free.

- The enclosure (1), made of sheet steel, galvanised and pre-lacquered RAL 9001 white.
  - The four aluminium conductors are mounted on fibreglass reinforced polyester insulators. All electrical contacts are made of silver-plated copper.
  - The straight lengths have a tap-off unit (2) every 0.5 metre on one side. There are four tap-off units per floor for floor heights between 3.5 and 4.8 metres, or three tap-off units per floor for floor heights less than 3.5 metres. The tap-off outlets are equipped with automatic shutters that avoid accidental contact with live parts. The protective conductor is electrically connected to the enclosure at each jointing unit.
  - Electrical contact between two components is provided by flexible contacts designed to adapt to the difference in expansion between the conductors and the enclosure.
- It is possible to check visually that the electrical contact is effective.  
The mechanical junction between two components is fixed by four captive screws.  
The jointing unit (3) is maintenance free.
- A fire barrier (4) can be installed when the riser passes through a slab to avoid any risk of fire propagation from one floor to another.
- Two-hour fire resistance (A120) is provided in compliance with standard ISO834 (DIN 41-2-part 9).
- Special components (5) are available to change direction or avoid obstacles.
  - The riser can be maintained by a special bottom support (6) or a spring -based fixing device on each floor of the building (depending on the height of the building).
  - The tap-off units (7) have the following characteristics:
    - connection and disconnection are possible only with the cover open
    - the contact of the protective conductor helps automatic opening of the shutters and feeds the tap-off unit
    - there is no access to live parts when the cover of the tap-off unit is open (no finger access, IPxxD)
    - when the tap-off unit is plugged in, the earthing contact connects first, followed by the phases
    - it is not possible to close the cover before the tap-off unit is mechanically locked on the trunking, tap-off units can be equipped with modular devices or moulded case circuit breakers.

# Characteristics and recommendations

## Electrical characteristics

From 100 to 1000 A - IP55 - U<sub>e</sub> = 230...690 V

### Run component characteristics

Rating of trunking (A) KS 100 160 250 400 500 630 800 1000

| General characteristics                          |                     |                |       |       |       |       |       |       |       |
|--------------------------------------------------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| Compliance with standards                        |                     | IEC/EN 61439-6 |       |       |       |       |       |       |       |
| Degree of protection                             | IP                  | 55             | 55    | 55    | 55    | 55    | 55    | 55    | 55    |
| Mechanical impacts                               | IK                  | 08             | 08    | 08    | 08    | 08    | 08    | 08    | 08    |
| Rated current at an ambient temperature of 35 °C | I <sub>nc</sub> A   | 100            | 160   | 250   | 400   | 500   | 630   | 800   | 1000  |
| Rated insulation voltage                         | U <sub>i</sub> V    | 690            | 690   | 690   | 690   | 690   | 690   | 690   | 690   |
| Rated operational voltage                        | U <sub>e</sub> V    | 690            | 690   | 690   | 690   | 690   | 690   | 690   | 690   |
| Rated impulse voltage                            | U <sub>imp</sub> kV | 8              | 8     | 8     | 8     | 8     | 8     | 8     | 8     |
| Rated frequency                                  | f Hz                | 50/60          | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |

### Conductor characteristics

| Phase conductors                                    |                      |      |      |      |      |      |      |      |      |
|-----------------------------------------------------|----------------------|------|------|------|------|------|------|------|------|
| Mean resistance at an ambient temperature of 20 °C  | R <sub>20</sub> mΩ/m | 1.19 | 0.55 | 0.28 | 0.15 | 0.11 | 0.09 | 0.06 | 0.04 |
| Mean resistance at I <sub>nc</sub> and 35 °C        | R <sub>1</sub> mΩ/m  | 1.59 | 0.77 | 0.39 | 0.21 | 0.15 | 0.13 | 0.09 | 0.06 |
| Mean reactance at I <sub>nc</sub> , 35 °C and 50 Hz | X <sub>1</sub> mΩ/m  | 0.15 | 0.15 | 0.16 | 0.14 | 0.07 | 0.07 | 0.06 | 0.06 |
| Mean impedance at I <sub>nc</sub> , 35 °C and 50 Hz | Z <sub>1</sub> mΩ/m  | 1.6  | 0.79 | 0.42 | 0.25 | 0.16 | 0.15 | 0.11 | 0.09 |

### Protective conductor (PE)

|                                                    |                 |      |      |      |      |      |      |      |      |
|----------------------------------------------------|-----------------|------|------|------|------|------|------|------|------|
| Mean resistance at an ambient temperature of 20 °C | mΩ/m            | 0.42 | 0.42 | 0.35 | 0.19 | 0.07 | 0.07 | 0.07 | 0.06 |
| Copper cross-section                               | mm <sup>2</sup> | 4    | 4    | 22   | 50   | 222  | 222  | 222  | 252  |

### Fault loop characteristics

|                               |                                        |                 |                           |                            |      |      |      |      |      |      |      |
|-------------------------------|----------------------------------------|-----------------|---------------------------|----------------------------|------|------|------|------|------|------|------|
| Symmetrical components method | Ph/N at 20 °C                          | Mean resistance | R <sub>0 ph/N</sub> mΩ/m  | 4.85                       | 2.32 | 1.28 | 0.74 | 0.5  | 0.45 | 0.32 | 0.23 |
|                               |                                        | Mean reactance  | X <sub>0 ph/N</sub> mΩ/m  | 0.95                       | 0.95 | 0.86 | 0.67 | 0.36 | 0.35 | 0.31 | 0.27 |
|                               |                                        | Mean impedance  | Z <sub>0 ph/N</sub> mΩ/m  | 4.94                       | 2.5  | 1.54 | 1    | 0.62 | 0.57 | 0.45 | 0.36 |
|                               | Ph/PE at 20 °C                         | Mean resistance | R <sub>0 ph/PE</sub> mΩ/m | 2.75                       | 2.01 | 1.34 | 0.88 | 0.4  | 0.51 | 0.35 | 0.32 |
|                               |                                        | Mean reactance  | X <sub>0 ph/PE</sub> mΩ/m | 1.11                       | 0.93 | 0.7  | 0.67 | 0.48 | 0.55 | 0.43 | 0.4  |
|                               |                                        | Mean impedance  | Z <sub>0 ph/PE</sub> mΩ/m | 2.96                       | 2.22 | 1.51 | 1.11 | 0.63 | 0.75 | 0.56 | 0.51 |
| Impedance method              | At 20 °C                               | Mean resistance | Ph/Ph                     | R <sub>b0 ph/ph</sub> mΩ/m | 2.4  | 1.15 | 0.65 | 0.41 | 0.25 | 0.23 | 0.18 |
|                               |                                        |                 | Ph/N                      | R <sub>b0 ph/N</sub> mΩ/m  | 2.44 | 1.21 | 0.74 | 0.51 | 0.3  | 0.28 | 0.23 |
|                               |                                        |                 | Ph/PE                     | R <sub>b0 ph/PE</sub> mΩ/m | 1.87 | 1.3  | 0.78 | 0.55 | 0.31 | 0.3  | 0.28 |
|                               | For I <sub>nc</sub> at 35 °C           | Mean resistance | Ph/Ph                     | R <sub>b1 ph/ph</sub> mΩ/m | 3.19 | 1.55 | 0.78 | 0.57 | 0.35 | 0.32 | 0.25 |
|                               |                                        |                 | Ph/N                      | R <sub>b1 ph/N</sub> mΩ/m  | 3.21 | 1.57 | 0.82 | 0.7  | 0.41 | 0.39 | 0.32 |
|                               |                                        |                 | Ph/PE                     | R <sub>b1 ph/PE</sub> mΩ/m | 2.38 | 1.46 | 0.91 | 0.76 | 0.43 | 0.41 | 0.39 |
|                               | For I <sub>nc</sub> at 35 °C and 50 Hz | Mean reactance  | Ph/Ph                     | X <sub>b ph/ph</sub> mΩ/m  | 0.31 | 0.31 | 0.32 | 0.28 | 0.14 | 0.14 | 0.13 |
|                               |                                        |                 | Ph/N                      | X <sub>b ph/N</sub> mΩ/m   | 0.45 | 0.45 | 0.45 | 0.39 | 0.2  | 0.2  | 0.18 |
|                               |                                        |                 | Ph/PE                     | X <sub>b ph/PE</sub> mΩ/m  | 0.58 | 0.42 | 0.42 | 0.39 | 0.24 | 0.24 | 0.23 |

### Other characteristics

#### Short-circuit withstand capacity

|                                                  |                                  |      |      |     |      |      |      |      |      |
|--------------------------------------------------|----------------------------------|------|------|-----|------|------|------|------|------|
| Rated peak withstand current                     | I <sub>pk</sub> kA               | 15.7 | 22   | 28  | 49.2 | 55   | 67.5 | 78.7 | 78.7 |
| Maximum thermal limit I <sup>2</sup> t (t = 1 s) | 10 <sup>6</sup> A <sup>2</sup> s | 6.8  | 20.2 | 100 | 354  | 733  | 1225 | 1758 | 1758 |
| Rated short-time withstand current (t = 1 s)     | I <sub>ow</sub> kA               | 2.6  | 4.45 | 10  | 18.8 | 26.2 | 32.1 | 37.4 | 37.4 |

#### Voltage drop

Composite voltage drop (hot state) expressed in V/100 m/A (50 Hz) with the load uniformly distributed over the run. If the load is concentrated at one end of the run, the voltage drop is twice the value indicated in the table.

|                       |     |           |       |       |       |       |       |       |       |       |
|-----------------------|-----|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| For a power factor of | 1   | V/100 m/A | 0.138 | 0.067 | 0.034 | 0.018 | 0.013 | 0.011 | 0.008 | 0.005 |
|                       | 0.9 | V/100 m/A | 0.130 | 0.066 | 0.036 | 0.022 | 0.014 | 0.013 | 0.009 | 0.007 |
|                       | 0.8 | V/100 m/A | 0.118 | 0.061 | 0.035 | 0.022 | 0.014 | 0.013 | 0.009 | 0.007 |
|                       | 0.7 | V/100 m/A | 0.106 | 0.056 | 0.034 | 0.021 | 0.013 | 0.012 | 0.009 | 0.008 |

This calculation table applies to the three-phase system.

To obtain the single-phase voltage drop, the three-phase voltage drop shown above is divided by 1.732.

#### Radiated magnetic field

|                                                            |      |      |      |      |      |      |      |      |      |
|------------------------------------------------------------|------|------|------|------|------|------|------|------|------|
| Radiated magnetic field strength 1 metre from the trunking | B μT | 0.22 | 0.41 | 0.69 | 1.00 | 0.66 | 0.89 | 1.12 | 1.27 |
|------------------------------------------------------------|------|------|------|------|------|------|------|------|------|

#### Product selection when harmonics are present (for details, see the "Special Applications" section)

|                                                                       |                   |     |     |     |     |     |     |     |      |
|-----------------------------------------------------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|------|
| Operational current as a function of 3 <sup>rd</sup> harmonic content | THD ≤ 15 %        | 100 | 160 | 250 | 400 | 500 | 630 | 800 | 1000 |
|                                                                       | 15 % < THD ≤ 33 % | 80  | 125 | 200 | 315 | 400 | 500 | 630 | 800  |
|                                                                       | THD > 33 %        | 63  | 100 | 160 | 250 | 315 | 400 | 500 | 630  |

#### Permissible current as a function of ambient temperature

|                     |    |      |    |      |      |      |      |
|---------------------|----|------|----|------|------|------|------|
| Ambient temperature | °C | < 35 | 35 | 40   | 45   | 50   | 55   |
| Coefficient K1      | %  | n/a  | 1  | 0.97 | 0.94 | 0.91 | 0.87 |

## Characteristics and recommendations

### Electrical characteristics

From 100 to 1000 A - IP55 -  $U_e = 230 \dots 690 \text{ V}$

#### Tap-off unit characteristics

| General characteristics                  |           |    |                                         |
|------------------------------------------|-----------|----|-----------------------------------------|
| Degree of protection                     | IP        |    | 55                                      |
| Mechanical impacts                       | IK        |    | 08                                      |
| Rated insulation voltage <sup>(1)</sup>  | $U_i$     | V  | 400, 500 depending on protective device |
| Rated operational voltage <sup>(1)</sup> | $U_e$     | V  | 400, 500 depending on protective device |
| Rated impulse voltage                    | $U_{imp}$ | kV | 6.8                                     |
| Rated frequency                          | f         | Hz | 50/60                                   |

<sup>(1)</sup> For 690 V, please see your sales office.

#### Radiated electromagnetic fields

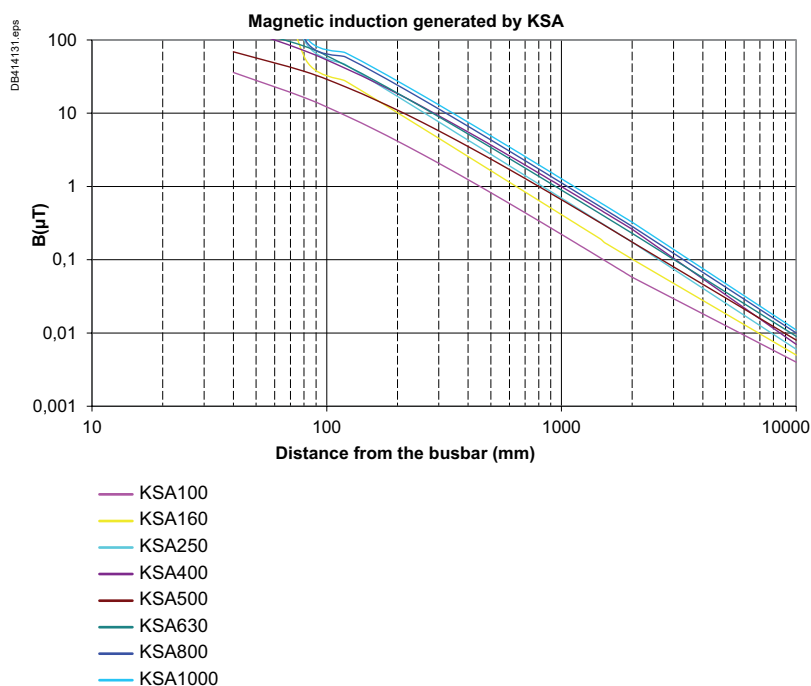
According to the WHO (World Health Organisation), exposure to radiated electromagnetic fields above 0.2 micro Tesla can be critical causing a risk of cancer over the long term. Some countries have standardised the limit:

Sweden = 0.2  $\mu\text{T}$ , at a distance of 1 metre.

All electrical conductors generate a magnetic field, the strength of which is proportional to the distance between them. The Canalis busbar trunking concept (metal casing and conductors near together) helps to considerably reduce radiated electromagnetic fields.

In specific cases where particularly low values are required (computer rooms, hospitals, some offices), it is important to keep in mind the following:

- the induction generated around 3-phase distribution. This is proportional to the current and the distance between the conductors, and inversely proportional to the square of the distance with respect to the busbar trunking and the screening effect of the case
- the induction generated around busbar trunking. This is less than the induction generated around an equivalent cable distribution
- Canalis' steel casing. This attenuates the induction more than an equivalent aluminium casing of the same thickness (screening effect)
- the induction generated around busbar trunking with sandwiched bars. This is particularly low because of the short distance between the bars and the additional attenuation provided by the steel casing.



## Characteristics and recommendations

# Recommendations for special applications

## How Canalis compensate for thermal expansion

### Foreword

Prefabricated electrical trunking components expand and contract due to:

- changes in ambient temperature (e.g. summer and winter)
- current flowing in the conductors (e.g. 0 to  $I_n$ )

For example, consider a 30 metre long 800 A Canalis KS line equipped with ten 160 A tap-off units and installed under the roof of a building where the ambient temperature varies by more than 30 °C between summer and winter:

- just the change in the ambient temperature results in an expansion of 20 mm for the conductors and the 10 mm for the casing
- at a constant ambient temperature, the temperature rise in the conductors every morning when the installation is started (increase in current from 0 to  $I_n = 800$  A) results in an expansion of 55 mm for the conductors and 7 mm for the casing.

The lengths of the sheet steel (1) and the aluminium conductors (2) therefore vary as a function of the changes in temperature and their specific thermal expansion coefficients.

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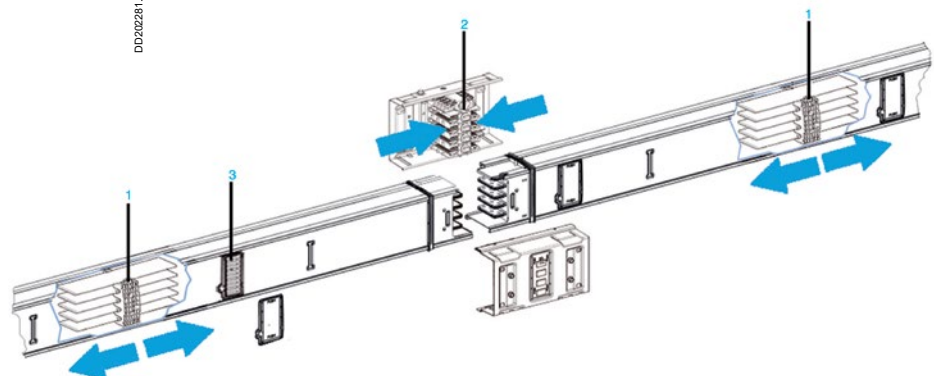


For this reason, Canalis components are designed to avoid impact on their installation or operation due to this phenomenon.

## How Canalis trunking components effectively compensate for the effects of conductor thermal expansion

Inside a trunking section, the conductors are fixed (1) at a single point in the casing and, due to the change in temperature, expand (→) on either side of that point. The zones affected by expansion and considered important from the electrical standpoint are the jointing system (2) and tap-off outlets (3).

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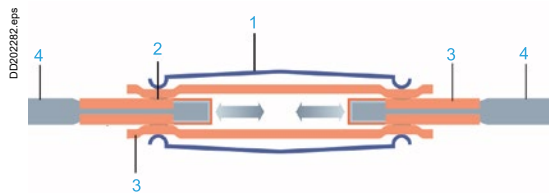


## Characteristics and recommendations

# Recommendations for special applications

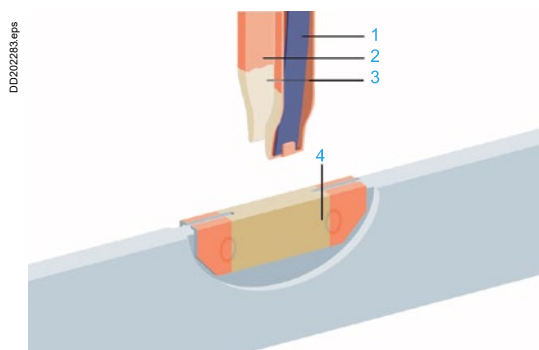
### How Canalis compensate for thermal expansion

#### How Canalis trunking components effectively compensate for the effects of conductor thermal expansion



■ The Canalis jointing system mechanically and electrically connects components (e.g. two straight lengths), but allows for the expansion and contraction of the conductors (4).

The system is made up of springs (1) and an area of sliding contacts (2) that allow conductor movement (→) while maintaining outstanding electrical contact. Contact quality is maintained by two parts made of silver-plated copper (3). Sufficient pressure between the two parts for good contact is maintained by the springs. This system is used at each end of the straight lengths, every three metres.



■ At the tap-offs, conductor expansion is compensated for by a contact zone (4) made of silver-plated copper on which the clamps of the tap-off unit can slide.

- 1 Spring of clamps.
- 2 Copper area.
- 3 Silver plated copper.

#### Conclusion:

at both the jointing system and the tap-off outlets, sliding contacts can handle the expansion of the conductors.

These maintenance-free silver-plated contacts are assured for life.

Only the expansion of the sheet steel must be taken into account for Canalis installation, however the problem is minor because both trials and calculations show that expansion is only approximately 1 mm for every three-metre length under extreme operating conditions.

## Characteristics and recommendations

# Recommendations for special applications

## How Canalis compensate for thermal expansion

Few precautionary measures used to compensate for the effects of thermal expansion in the casing, depending on how the line is installed.

### Horizontal line

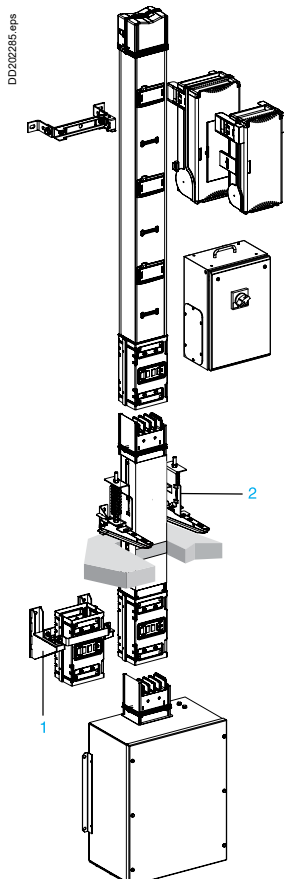
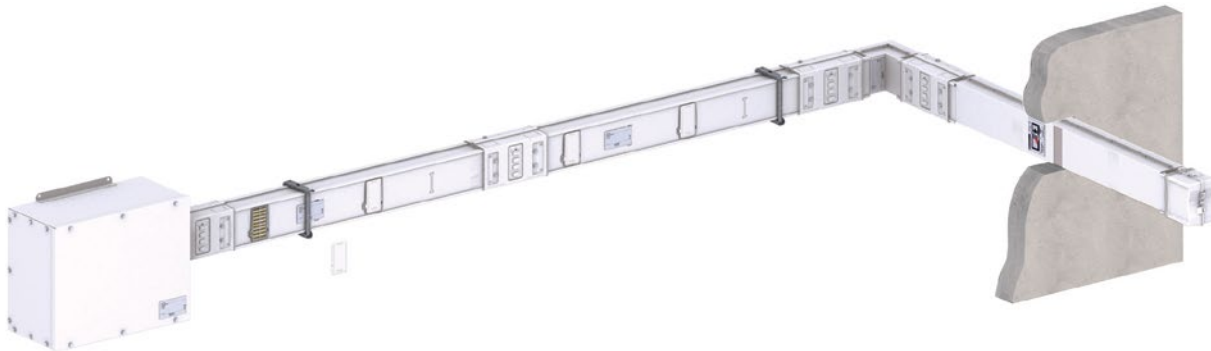
For a trunking line made up exclusively of straight lengths, as noted above, the effects of thermal expansion are not significant (only 1 mm for 3 m).

To avoid impact of problems, Canalis trunking supports allow movement of the casing, i.e. no fixed points.

For a fixed point caused by a blocked elbow, for example, the casings compensate their expansion by slight lateral movement (0.7 mm maximum) on either side of the longitudinal axis. This movement has no impact on the contact quality of the jointing system or on the IP.

### Conclusion:

The only precautionary measure is to restrict distortion by avoiding having a number of fixed points on a single line.



### Vertical line (rising mains)

The effects of thermal expansion depend on the different installation methods.

#### Rising mains with just one bottom support (1)

With a bottom support attached to the wall, the riser expands upwards. At each floor, the sheet steel slides naturally through the floor.

The only precautionary measure is to avoid creating any other fixed points.

#### Rising mains with spring-based fixing devices (2)

For rising mains with spring-based fixing devices only, the riser expands both upwards and downwards. At each floor, the casing slides naturally through the fire barriers.

#### Rising mains with more than one bottom support (1)

More than one bottom support should not be used on a single riser to avoid creating a number of fixed points that block thermal expansion of the casing, in which case a component in the line may break.

If more than one bottom support is necessary, it is advised to break the riser into a number of sections, interconnected by cables and feed boxes, to allow thermal expansion (see section "above on Rising mains with just one bottom support").

Installation of rising mains does not require any particular precautionary measures. All the above solutions have been simulated by calculations and tested in a laboratory. Schneider Electric assures that they will maintain the protection and reliability of your installation.

# Characteristics and recommendations

## Coordination

### Trunking protection: Overload protection

The busbar trunking rating can be optimised when the trunking is protected by circuit breakers rather than fuses.

#### Selection of busbar trunking with respect to protective device ratings

To take into account busbar trunking thermal overload protection, the various protection switchgear technologies and the currents under overload conditions must be considered.

**The sizing characteristics for the choice of busbar trunking and overload protection are:**

- $I_n$  trunking = load current  $\times f_1 \times k_2$
- $f_1$ : temperature coefficient
- $k_2$ : derating factor linked to the type of switchgear:
  - fuse:  $k_2 = 1.1$
  - circuit breaker:  $k_2 = 1$ .

#### Example:

**For a load current = 400 A with an ambient temperature of 35 °C:**

> Fuse protection:

$$I_n \text{ trunking} = \text{load current} \times f_1 \times k_2 = 400 \times 1 \times 1.1 = 440 \text{ A}$$

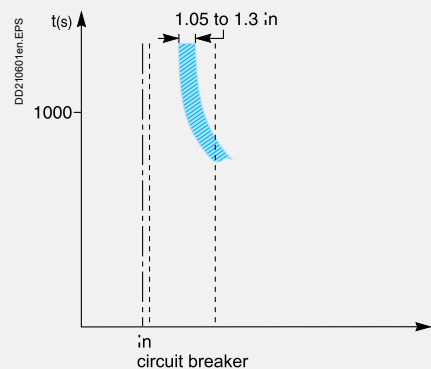
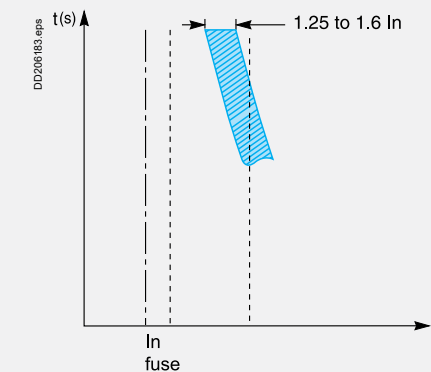
The recommended trunking is KSA500 ( $I_n$  trunking = 500 A).

> Circuit breaker protection:

$$I_n \text{ trunking} = \text{load current} \times f_1 \times k_2 = 400 \times 1 \times 1 = 400 \text{ A}$$

The recommended trunking is KSA400 ( $I_n$  trunking = 400 A).

**Due to their design, circuit breaker thermal settings are more precise.**



#### Explanations

Calibration of thermal asymptotes:

> distribution fuses are calibrated to trip for overloads of between **1.25 and 1.6** times their rated current

> circuit breakers are calibrated to trip for overloads of between **1.05 and 1.3** (1.2 for circuit breakers with electronic protection) times their current setting.



## Characteristics and recommendations

### Coordination

#### Trunking protection: Overload protection

##### Thermal-setting precision

■ The fuse is assigned a fixed rating. A change in the current to be protected requires fuse replacement. **The difference between 2 fuse ratings is approximately 25 %.**  
Standard ratings are given according to the series of characteristic numbers of the "Renard" series.

For example: 40 - 50 - 63 - 80 - 100 - 125 - 160 - 200 - etc.

■ **the circuit breaker offers a setting precision of:**

- **5 %** for circuit breakers equipped with conventional **thermal-magnetic** trip units
- **3 %** for circuit breakers equipped with **electronic** trip units.

For example, a circuit breaker with a nominal rating of 100 A can easily be set to values of  $I_r = 100 \text{ A}$ , 95 A, 90 A, 85 A, 80 A.

##### Example:

A circuit breaker with a nominal rating of 100 A set to 90 A will be used to protect KSA100 busbar trunking ( $I_n \text{ trunking} = 100 \text{ A}$ ) which is used for an ambient temperature of 50 °C.

##### Extensive setting range of circuit breakers equipped with electronic trip units

Circuit breakers equipped with electronic trip units offer an extended range of settings:

- thermal protection  $I_r$  adjustable from 0.4  $I_n$  to  $I_n$
- short-circuit protection from 2  $I_r$  to 10  $I_r$ .

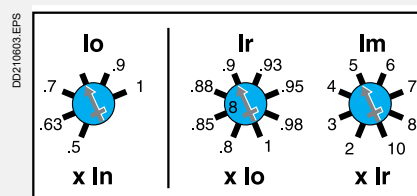
##### Example:

A 250 A circuit breaker (NSX250N equipped with an STR22SE) can easily be set up for:

- > thermal protection from 100 to 250 A
- > short-circuit protection from 200 to 2500 A.

##### Advantages:

- This provides a high degree of flexibility with respect to:
  - modifications (flexibility), extensions (upgradeability): protective devices can be easily adapted to the application requiring protection and to the system earthing arrangement used (protection of life and property)
  - maintenance: use of this type of device considerably reduces maintenance component stocks.



Example of setting possibilities



# Characteristics and recommendations

## Coordination

### Trunking protection: Short-circuit protection

#### Trunking characteristics

**Busbar Trunking Systems (BTS) must meet all rules stipulated in standards IEC 60439.1 and 60439.6.**

■ With respect to short-circuits, BTS sizing is determined by the following characteristics:

□ **rated peak withstand current  $I_{pk}$  (kA):**

this characteristic expresses the instantaneous electrodynamic withstand limits of the busbar trunking. The peak current value is often the most restrictive instantaneous characteristic for the protective device

□ **maximum rms short-time withstand current  $I_{cw}$  (kArms/...s):**

this characteristic expresses the permissible temperature-rise limit of conductors over a given period of time (0.1 to 1 s)

□ **thermal stress in  $A^2s$ :**

this characteristic expresses the instantaneous thermal stress withstand of the BTS. Normally, if the short-circuit generates fault conditions that are compatible with the first two characteristics, this constraint is "automatically satisfied"

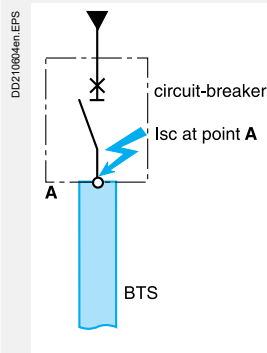
#### Circuit breaker characteristics

A circuit breaker must meet the requirements of product construction standards (IEC 60947-2, etc.) and installation standards (IEC 60364 or applicable country standards), i.e. its breaking capacity  $I_{cu}$  <sup>(1)</sup> must be greater than short-circuit current  $I_{sc}$  at the point where it is installed.

<sup>(1)</sup> Installation standard IEC 60364 and the construction standards specify that the breaking capacity of a circuit breaker is:

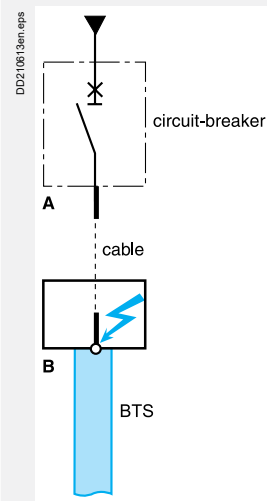
- the ultimate breaking capacity,  $I_{cu}$ , if it is not coordinated with an upstream protective device,
- the breaking capacity enhanced by cascading, if there is coordination with the upstream protective device.

#### Characteristics of the circuit breaker / trunking combination



**When the busbar trunking is directly protected, selection of the protective device must take into account the following requirements:**

- circuit breaker  $I_{cu} \geq$  prospective  $I_{sc}$  at **point A**
- BTS  $I_{peak} \geq$  limited or asymmetrical prospective  $I_{sc}$  at **point A**
- BTS thermal withstand at  $I_{cw} \geq$  thermal stress



passing through the BTS.

**When the busbar trunking is protected downstream of a cable, selection of the protective device must take into account the following requirements:**

- circuit breaker  $I_{cu} \geq$  prospective  $I_{sc}$  at **point A**
- BTS  $I_{peak} \geq$  limited or asymmetrical prospective  $I_{sc}$  at **point B**
- BTS thermal withstand at  $I_{cw} \geq$  thermal stress passing through the BTS.

## Characteristics and recommendations

# Coordination

## Circuit breaker/trunking coordination

### Non-limiting or time-delayed circuit breakers

Either non-limiting (instantaneous or time-delayed) or time-delayed limiting circuit breakers can be used. They are mainly air-type power (= 800 A) circuit breakers.

**This type of circuit breaker is used to implement time discrimination and is often combined with KT type trunking.**

- The busbar trunking must be capable of withstanding the peak fault current to which it may be subjected as well as the thermal stress during any time delay:
- the permissible peak current,  $I_{peak}$ , of the BTS must be greater than the peak value of the prospective asymmetrical short-circuit current at point A.  
The value of the asymmetrical short-circuit current is obtained from the value of the symmetrical short-circuit current,  $I_{sc}$ , multiplied by a standardised asymmetry factor ( $k$ ).  
The value of the first short-circuit asymmetry peak in the transient state is taken into account.

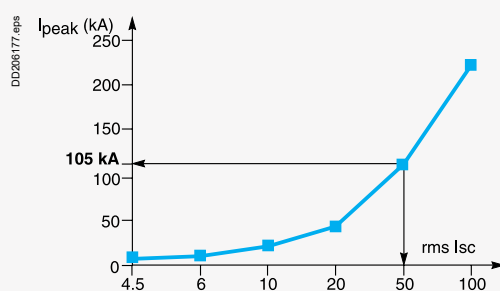
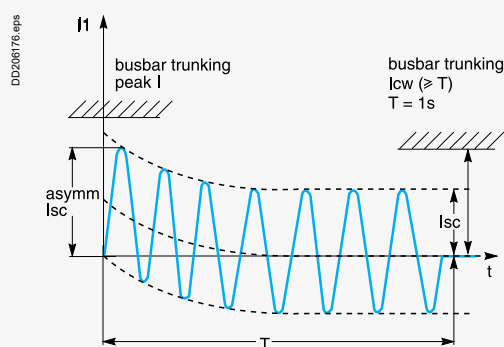
#### Standardised table for asymmetrical short-circuit calculations

| <b><math>I_{sc}</math>: prospective symmetrical short-circuit<br/>kA (rms value)</b> | <b>Asymmetry factor <math>k</math></b> |
|--------------------------------------------------------------------------------------|----------------------------------------|
| $4.5 \leq I \leq 6$                                                                  | 1.5                                    |
| $6 < I \leq 10$                                                                      | 1.7                                    |
| $10 < I \leq 20$                                                                     | 2.0                                    |
| $20 < I \leq 50$                                                                     | 2.1                                    |
| $50 < I$                                                                             | 2.2                                    |

For example, for a circuit with a prospective short-circuit current of 50 kA rms, the first peak reaches 105 kA ( $50 \text{ kA} \times 2.1$ ). See the figure below.

- the short-time withstand current  $I_{cw}$  of the BTS must be greater than the current  $I_{sc}$  flowing through the installation for the duration of the short-circuit, (duration  $T$  = total breaking time, including the time delay if applicable).

If one of these criteria is not satisfied, the rating of the busbar trunking to be used must be increased.



# Characteristics and recommendations

## Coordination

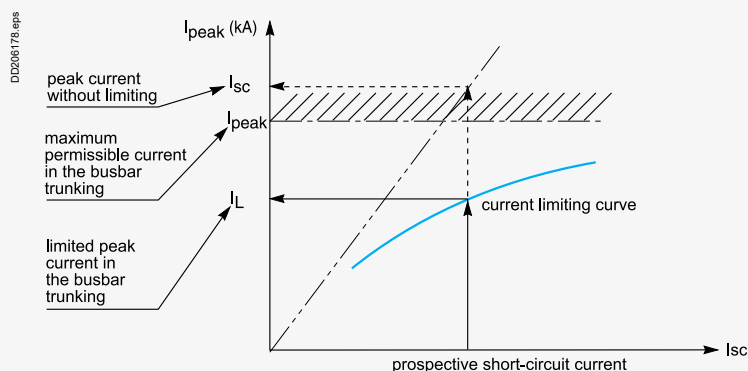
### Circuit breaker/trunking coordination

#### Limiting circuit breakers

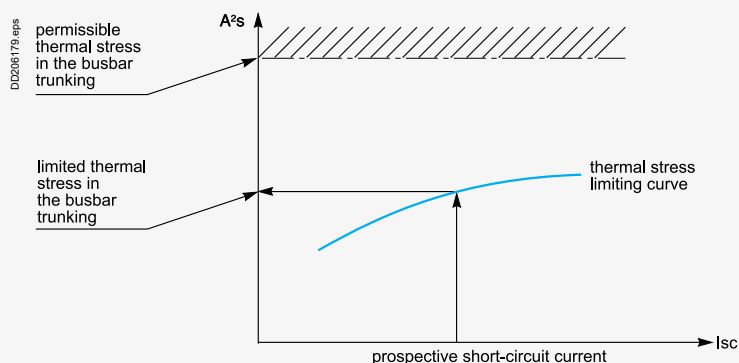
This mainly concerns protection of BTSs by moulded-case circuit breakers ( $\leq 1600$  A).

This type of circuit breaker is used for energy discrimination and is therefore often combined with Canalis KN and KS trunking.

- In this case, the BTS must withstand the peak current limited by the protective device and the corresponding thermal stress.
- The current limited ( $I_{\text{peak}}$ ) by the circuit breaker must be less than the peak current permitted in the BTS.
- The thermal stress limited by the circuit breaker must be less than the thermal stress permitted in the BTS.



Checking the BTS withstand capacity in terms of peak current.



Checking the BTS withstand capacity in terms of thermal stress

## Characteristics and recommendations

### Coordination

#### BTS protection by Compact NSX limiting circuit breakers

##### Limiting capacity

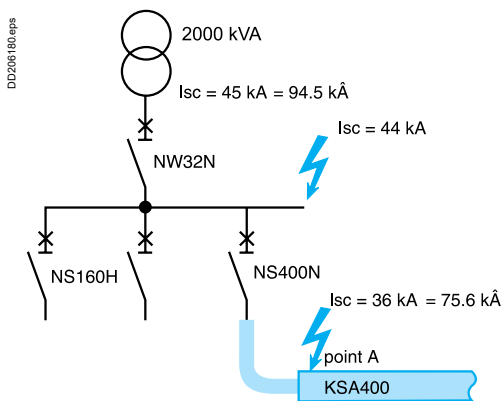


Busbar trunking ratings can be optimised when circuit breakers rather than fuses are used for protection.

The circuit breakers in the Compact NSX and Compact NSXm ranges are limiting circuit breakers with a high current-limiting capacity.

A circuit breaker's limiting capacity is its ability to let only a limited current  $I_L$ , lower than the prospective asymmetrical peak short-circuit current  $I_{sc}$  through in the event of a short-circuit.

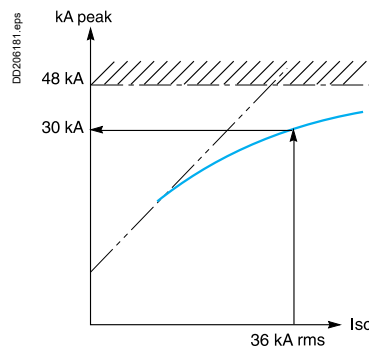
**The effect is a considerable reduction in electrodynamic and thermal stresses in the installation.**



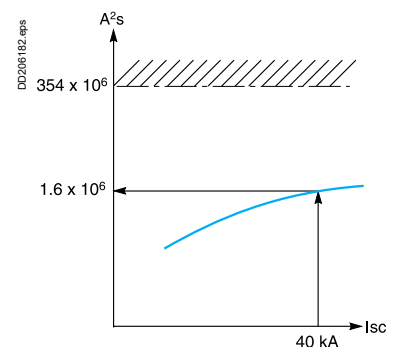
##### Example of a mid-sized installation (> 1000 kVA)

The diagram opposite shows the protection provided by an NSX400N limiting circuit breaker for KSA400 trunking.

- Without taking into account the circuit breaker's limiting capacity:
  - the prospective  $I_{sc}$  at point A would be 75.6 kA
  - KSA800 trunking would be required ( $I_{peak} = 78.7 \text{ kA} > 75.6 \text{ kA}$  at point A).
- Taking into account the limiting capacity of the Compact NSX400N:
  - the value of  $I_{peak}$  limited by the circuit breaker is:  
30 kA < 49.2 kA of the KSA400 trunking
  - the value of the limited thermal stress is:  
 $1.6 \times 10^6 < 354 \times 10^6$  of the KSA400 trunking.



Current limiting.



Energy limiting.

Thanks to the high limiting capacity of Compact NSX400N circuit breakers, KSA400 busbar trunking can be used for prospective  $I_{sc}$  values up to 50 kA (105 kA) at point A.

# Characteristics and recommendations

## Coordination

### Selection guide

The selection guides below can be used to determine the circuit breaker required to fully protect the trunking depending on the prospective short-circuit current of the installation.

Example: in an installation with a prospective  $I_{sc}$  of 15 kA, the circuit breaker required to protect 25 A KBB trunking is a C60H (the rating depends on the rated current of the circuit).

In bold, the most appropriate device to the rating of the busbar trunking.

### Selection guide for Ue: 380-415 V AC

| Type of Canalis busbar trunking KSA100  |                  |                             |                             |                      |                     |                   |                   |
|-----------------------------------------|------------------|-----------------------------|-----------------------------|----------------------|---------------------|-------------------|-------------------|
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                |                     |                   |                   |
| Type of circuit breaker                 | NG125            | NG125N100                   | NG125H80                    | NG125L80             |                     |                   |                   |
|                                         | Compact NSXm     | NSXm B/F/N/H 100            | NSXm F/N/H 100              | -                    |                     |                   |                   |
|                                         | Compact NSX      | NSX100B/F/N/H/S/L           | -                           | -                    |                     |                   |                   |
| Type of Canalis busbar trunking KSA160  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 90 kA             |                   |
| Type of circuit breaker                 | Compact NSXm     | <b>NSXm B/F/N/H 160</b>     | <b>NSXm F/N/H 160</b>       | <b>NSXm N/H 160</b>  | <b>NSXm N/H 160</b> |                   |                   |
|                                         | Compact NSX      | NSX100B/F/N/H/S/L           | NSX100F/N/H/S/L             | NSX100N/H/S/L        | NSX100H/S/L         | NSX100S/L         |                   |
|                                         |                  | <b>NSX160B/F/N/H/S/L</b>    | <b>NSX160F/N/H/S/L</b>      | <b>NSX160N/H/S/L</b> | <b>NSX160H/S/L</b>  | -                 |                   |
|                                         |                  | NSX250B/F/N/H/S/L           | NSX250F/N/H/S/L             | NSX250N/H/S/L        | -                   | -                 |                   |
| Type of Canalis busbar trunking KSA250  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NSX      | NSX160B/F/N/H/S/L           | NSX160F/N/H/S/L             | NSX160N/H/S/L        | NSX160H/S/L         | NSX160S/L         | NSX160L           |
|                                         |                  | <b>NSX250B/F/N/H/S/L</b>    | <b>NSX250F/N/H/S/L</b>      | <b>NSX250N/H/S/L</b> | <b>NSX250H/S/L</b>  | <b>NSX250S/L</b>  | <b>NSX250L</b>    |
|                                         |                  | NSX400F/N/H/S/L             | NSX400F/N/H/S/L             | NSX400N/H/S/L        | -                   | -                 | -                 |
|                                         | Compact NS       | NS630b N/H/L/LB             | NS630b L / LB               | NS630b L / LB        | NS630b LB           | -                 | -                 |
| Type of Canalis busbar trunking KSA400  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NSX      | NSX250B/F/N/H/S/L           | NSX250F/N/H/S/L             | NSX250N/H/S/L        | NSX250H/S/L         | NSX250S/L         | NSX250L           |
|                                         |                  | <b>NSX400F/N/H/S/L</b>      | <b>NSX400F/N/H/S/L</b>      | <b>NSX400N/H/S/L</b> | <b>NSX400H/S/L</b>  | <b>NSX400S/L</b>  | <b>NSX400L</b>    |
|                                         |                  | NSX630F/N/H/S/L             | NSX630F/N/H/S/L             | NSX630N/H/S/L        | NSX630H/S/L         | NSX630S/L         | NSX630L           |
|                                         | Compact NS       | NS630b N/H/L/LB             | NS630b L / LB               | NS630b L / LB        | NS630b LB           | -                 | -                 |
| Type of Canalis busbar trunking KSA500  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NSX      | NSX400F/N/H/S/L             | NSX400F/N/H/S/L             | NSX400N/H/S/L        | NSX400H/S/L         | NSX400S/L         | NSX400L           |
|                                         |                  | <b>NSX630F/N/H/S/L</b>      | <b>NSX630F/N/H/S/L</b>      | <b>NSX630N/H/S/L</b> | <b>NSX630H/S/L</b>  | <b>NSX630S/L</b>  | <b>NSX630L</b>    |
|                                         | Compact NS       | NS630b N/H/L/LB             | NS630b N/H/L/LB             | NS630b L / LB        | NS630b LB           | NS630b LB         | -                 |
| Type of Canalis busbar trunking KSA630  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | ≤ 32 kA                     | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NSX      | NSX400F/N/H/S/L             | NSX400F/N/H/S/L             | NSX400N/H/S/L        | NSX400H/S/L         | NSX400S/L         | NSX400L           |
|                                         |                  | <b>NSX630F/N/H/S/L</b>      | <b>NSX630F/N/H/S/L</b>      | <b>NSX630N/H/S/L</b> | <b>NSX630H</b>      | <b>NSX630S/L</b>  | <b>NSX630L</b>    |
|                                         | Compact NS       | NS630b N/H/L/LB             | NS630b L/LB                 | NS630b L/LB          | NS630b L/LB         | NS630b L/LB       | NS630b LB         |
|                                         |                  | NS800N/H/L/LB               | NS800L/LB                   | NS800L/LB            | NS800L/LB           | NS800L/LB         | NS800LB           |
|                                         | Masterpact MTZ1  | MTZ1 06 H1/H2/H3/L1         | MTZ1 06 L1                  | MTZ1 06 L1           | MTZ1 06 L1          | MTZ1 06 L1        | -                 |
|                                         |                  | MTZ1 08 H1/H2/H3/L1         | MTZ1 08 L1                  | MTZ1 08 L1           | MTZ1 08 L1          | MTZ1 08 L1        | -                 |
| Type of Canalis busbar trunking KSA800  |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NSX      | NSX630F/N/H/S/L             | NSX630F/N/H/S/L             | NSX630N/H/S/L        | NSX630H/S/L         | NSX630S/L         | NSX630L           |
|                                         | Compact NS       | NS630b N/H/L/LB             | NS630b N/H/L/LB             | NS630b L/LB          | NS630b L/LB         | NS630b L/LB       | NS630b L/LB       |
|                                         |                  | <b>NS800N/H/L/LB</b>        | <b>NS800N/H/L/LB</b>        | <b>NS800L/LB</b>     | <b>NS800L/LB</b>    | <b>NS800L/LB</b>  | <b>NS800L/LB</b>  |
|                                         |                  | NS1000N/H/L                 | NS1000N/H/L                 | NS1000L              | NS1000L             | NS1000L           | NS1000L           |
|                                         | Masterpact MTZ1  | MTZ1 06 H1/H2/H3/L1         | MTZ1 06 H1/H2/H3/L1         | MTZ1 06 L1           | MTZ1 06 L1          | MTZ1 06 L1        | MTZ1 06 L1        |
|                                         |                  | <b>MTZ1 08 H1/H22/H3/L1</b> | <b>MTZ1 08 H1/H22/H3/L1</b> | <b>MTZ1 08 L1</b>    | <b>MTZ1 08 L1</b>   | <b>MTZ1 08 L1</b> | <b>MTZ1 08 L1</b> |
| MTZ1 10 H1/H2/H3/L1                     |                  | MTZ1 10 H1/H2/H3/L1         | MTZ1 10 L1                  | MTZ1 10 L1           | MTZ1 10 L1          | MTZ1 10 L1        |                   |
| Type of Canalis busbar trunking KSA1000 |                  |                             |                             |                      |                     |                   |                   |
| Isc max. in kA rms                      |                  | 25 kA                       | 36 kA                       | 50 kA                | 70 kA               | 100 kA            | 150 kA            |
| Type of circuit breaker                 | Compact NS       | NS800N/H/L/LB               | NS800N/H/L/LB               | NS800L/LB            | NS800L/LB           | NS800L/LB         | NS800L/LB         |
|                                         |                  | <b>NS1000N/H/L</b>          | <b>NS1000N/H/L</b>          | NS1000L              | NS1000L             | NS1000L           | NS1000L           |
|                                         |                  | NS1250N/H                   | NS1250N/H                   | -                    | -                   | -                 | -                 |
|                                         | Masterpact MTZ1  | MTZ1 08 H1/H22/H3/L1        | MTZ1 08 H1/H22/H3/L1        | MTZ1 08 L1           | MTZ1 08 L1          | MTZ1 08 L1        | MTZ1 08 L1        |
|                                         |                  | <b>MTZ1 10 H1/H2/H3/L1</b>  | <b>MTZ1 10 H1/H2/H3/L1</b>  | <b>MTZ1 10 L1</b>    | <b>MTZ1 10 L1</b>   | <b>MTZ1 10 L1</b> | <b>MTZ1 10 L1</b> |
|                                         | MTZ1 12 H1/H2/H3 | MTZ1 12 H1/H2/H3            | -                           | -                    | -                   | -                 |                   |

# Characteristics and recommendations

## Coordination

### Selection guide

#### Selection guide for Ue: 660-690 V AC

| Type of Canalis busbar trunking KSA100  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|-----------------------------------------|-----------------|-------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|-----------------------------------|--------------------------------|-------------------------------------|
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX100N/H/S/L<br>NSX160N/H/S/L<br>NSX250N/H/S/L                   | NSX100S/L<br>NSX160S/L<br>NSX250S/L             | NSX100L                               | -                                 | -                              | -                                   |
| Type of Canalis busbar trunking KSA160  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX100N/H/S/L<br>NSX160N/H/S/L<br>NSX250N/H/S/L                   | NSX100S/L<br>NSX160S/L<br>NSX250S/L             | NSX100L<br>NSX160L<br>NSX250L         | NSX100R                           | NSX100R                        | -                                   |
| Type of Canalis busbar trunking KSA250  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX160N/H/S/L<br>NSX250N/H/S/L<br>NSX400F/N/H/S/L                 | NSX160S/L<br>NSX250S/L<br>NSX400H/S/L           | NSX160L<br>NSX250L<br>NSX400H/S/L     | -<br>NSX250R<br>-                 | -<br>NSX250R<br>-              | -<br>NSX250HB1<br>-                 |
| Type of Canalis busbar trunking KSA400  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX250N/H/S/L<br>NSX400F/N/H/S/L<br>NSX630F/N/H/S/L               | NSX250S/L<br>NSX400F/N/H/S/L<br>NSX630F/N/H/S/L | NSX250L<br>NSX400H/S/L<br>NSX630H/S/L | NSX250R<br>NSX400S/L<br>NSX630S/L | NSX250R<br>NSX400R<br>NSX630R  | NSX250HB1<br>NSX400HB1<br>NSX400HB1 |
|                                         | Compact NS      | NS630b N/H/LB                                                     | NS630b N/H/LB                                   | NS630b N/H/LB                         | NS630bLB                          | NS630bLB                       | NS630bLB                            |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                | -                                   |
| Type of Canalis busbar trunking KSA500  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX400F/N/H/S/L<br>NSX630F/N/H/S/L                                |                                                 | NSX400H/S/L<br>NSX630H/S/L            | NSX400S/L<br>NSX630S/L            | NSX400R<br>NSX630R             | NSX400HB1<br>NSX630HB1              |
|                                         | Compact NS      | NS630b N/H/LB<br>NS800N/H/LB                                      |                                                 |                                       |                                   | NS630b LB<br>NS800LB           | -<br>-                              |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                | -                                   |
| Type of Canalis busbar trunking KSA630  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 10 kA                                                             | 15 kA                                           | 20 kA                                 | 25 kA                             | 45 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX400F/N/H/S/L<br>NSX630F/N/H/S/L                                | NSX400H/S/L<br>NSX630H/S/L                      | NSX400H/S/L<br>NSX630H/S/L            | NSX400S/L<br>NSX630S/L            | NSX400R<br>NSX630R             | NSX400HB1<br>NSX630HB1              |
|                                         | Compact NS      | NS630b N/H/LB<br>NS800N/H/LB                                      |                                                 |                                       |                                   | NS630b LB<br>NS800LB           | -<br>-                              |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                | -                                   |
| Type of Canalis busbar trunking KSA800  |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 25 kA                                                             | 30 kA                                           | 35 kA                                 | 45 kA                             | 65 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX400S/L/R/HB1/HB2<br>NSX630S/L/R/HB1/HB2                        | NSX400L/R/HB1/HB2<br>NSX630S/L/R/HB1/HB2        | NSX400R/HB1/HB2<br>NSX630R/HB1/HB2    |                                   | NSX400HB1/HB2<br>NSX630HB1/HB2 | NSX400HB2<br>NSX630HB2              |
|                                         | Compact NS      | NS630b N/H/LB<br>NS800N/H/LB<br>NS1000N/H                         |                                                 | NS630b H/LB<br>NS800H/LB<br>NS1000H   | NS630b LB<br>NS800LB              |                                | -<br>-<br>-                         |
|                                         | Masterpact MTZ1 | MTZ1 06 H1/H2/L1<br>MTZ1 08 H1/H2/L1<br>MTZ1 10 H1/H2/L1          | MTZ1 06 H1/H2<br>MTZ1 08 H1/H2<br>MTZ1 10 H1/H2 |                                       | -<br>-<br>-                       | -<br>-<br>-                    | -<br>-<br>-                         |
|                                         | Masterpact MTZ2 | MTZ2 08 N1/H1/H2/L1<br>MTZ2 10 N1/H1/H2/L1                        |                                                 |                                       | -<br>-                            | -<br>-                         | -<br>-                              |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Type of Canalis busbar trunking KSA1000 |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
| Isc max. in kA rms                      |                 | 25 kA                                                             | 30 kA                                           | 35 kA                                 | 45 kA                             | 65 kA                          | 100 kA                              |
| Type of circuit breaker                 | Compact NSX     | NSX400S/L/R/HB1/HB2<br>NSX630S/L/R/HB1/HB2                        | NSX400L/R/HB1/HB2<br>NSX630S/L/R/HB1/HB2        | NSX400R/HB1/HB2<br>NSX630R/HB1/HB2    |                                   | NSX400HB1/HB2<br>NSX630HB1/HB2 | NSX400HB2<br>NSX630HB2              |
|                                         | Compact NS      | NS630b N/H/LB<br>NS800N/H/LB<br>NS1000N/H                         |                                                 | NS630b H/LB<br>NS800H/LB<br>NS1000H   | NS630b LB<br>NS800LB              |                                | -<br>-<br>-                         |
|                                         | Masterpact MTZ1 | MTZ1 08 H1/H2/L1<br>MTZ1 10 H1/H2/L1<br>MTZ1 12 H1/H2             | MTZ1 08 H1/H2<br>MTZ1 10 H1/H2<br>MTZ1 12 H1/H2 |                                       | -<br>-<br>-                       | -<br>-<br>-                    | -<br>-<br>-                         |
|                                         | Masterpact MTZ1 | MTZ2 08 N1/H1/H2/L1<br>MTZ2 10 N1/H1/H2/L1<br>MTZ2 12 N1/H1/H2/L1 |                                                 |                                       | -<br>-<br>-                       | -<br>-<br>-                    | -<br>-<br>-                         |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |
|                                         |                 |                                                                   |                                                 |                                       |                                   |                                |                                     |

# Characteristics and recommendations

## Certification

### Marine certification status

| Certification                                                                       |                                              | Range                                                                              |                                                                                     |
|-------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                     |                                              | Canalis KN                                                                         | Canalis KS                                                                          |
|                                                                                     |                                              |  |  |
|                                                                                     |                                              | PD020221_KN                                                                        | PB115500-30                                                                         |
|    | <b>ABS</b><br>American Bureau<br>of Shipping | 04-LD470214B/2-PDA                                                                 | 04-LD470214B/2-PDA                                                                  |
|    | <b>BV</b><br>Bureau Veritas                  | BV_19651C0                                                                         | BV_19651C0                                                                          |
|  | <b>DNV (DNV-GL)</b><br>Det Norske Veritas    | TAE000023F                                                                         | TAE000023F                                                                          |
|  | <b>LR</b><br>Lloyds Register<br>of Shipping  | 13-20001 (E1)                                                                      | 13-20001 (E1)                                                                       |
|  | <b>RINA</b><br>Registro Italia Navale        | ELE174316CS001                                                                     | ELE174316CS001                                                                      |

# Installation



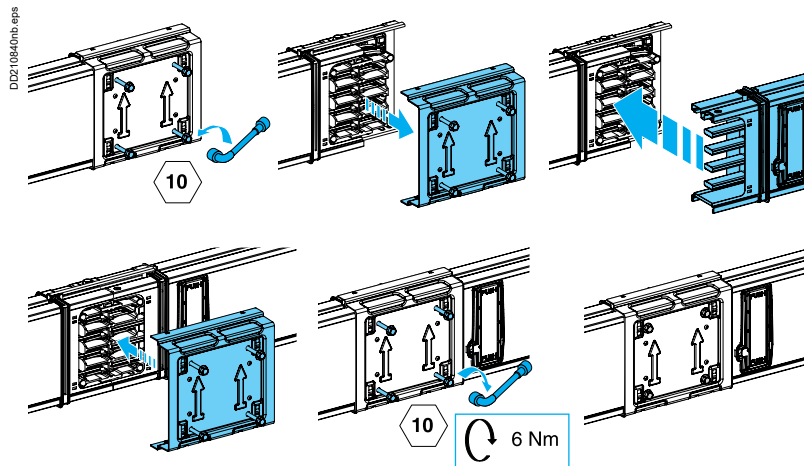
## Characteristics and recommendations

# Busbar trunking for medium power distribution

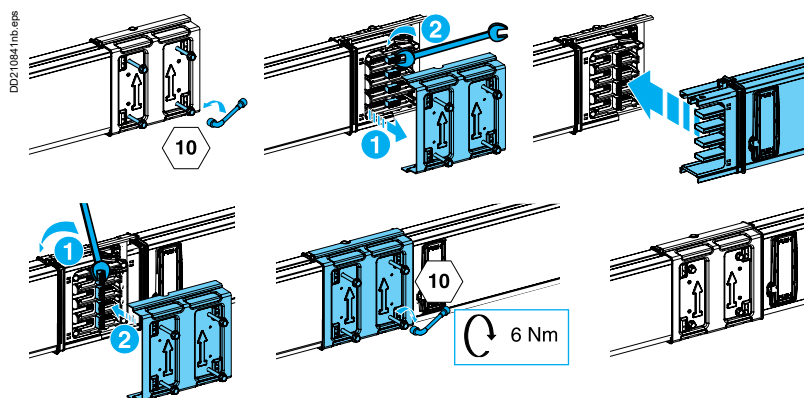
Assembly of trunking components rising mains from 100 to 1000 A

### Assembling the straight lengths brackets

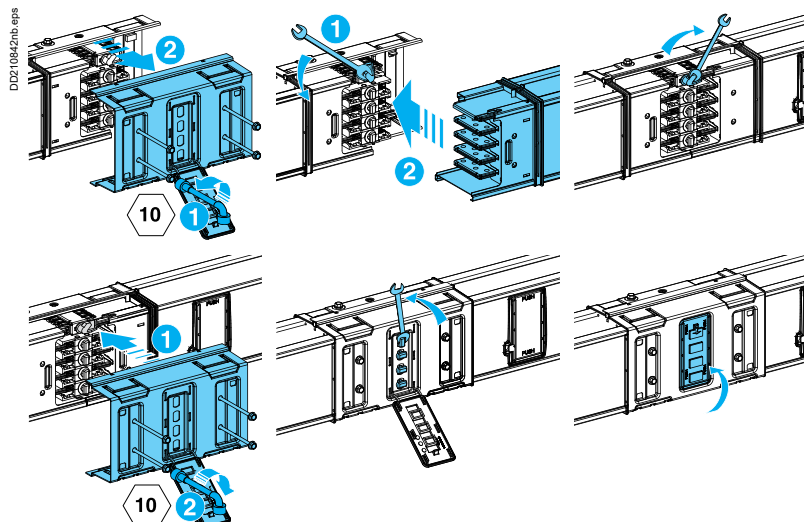
100 and 250 A



400 A



500 to 1000 A



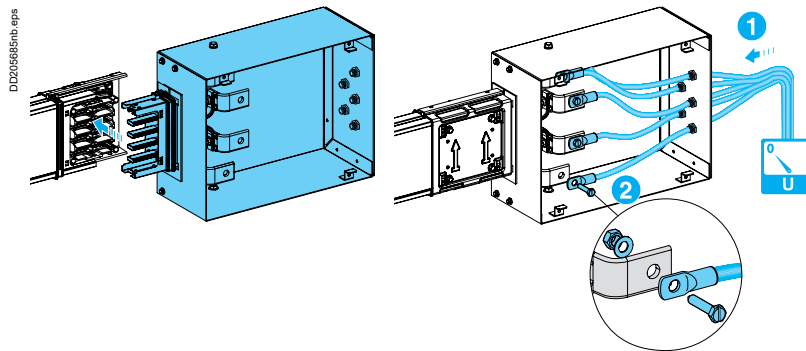
## Characteristics and recommendations

# Busbar trunking for medium power distribution

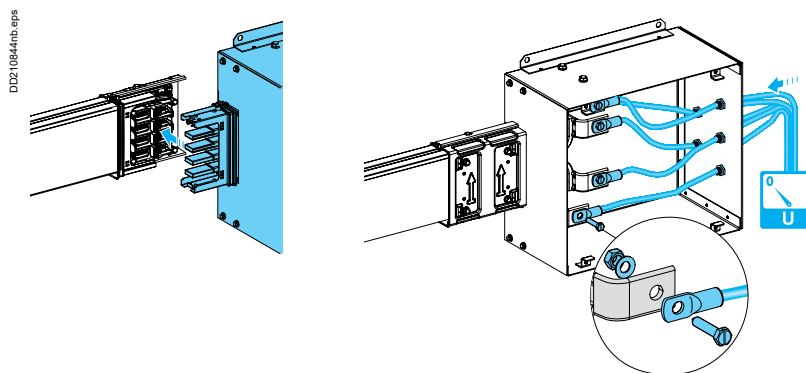
Assembly of trunking components rising mains from 100 to 1000 A

### Connecting the feed-units

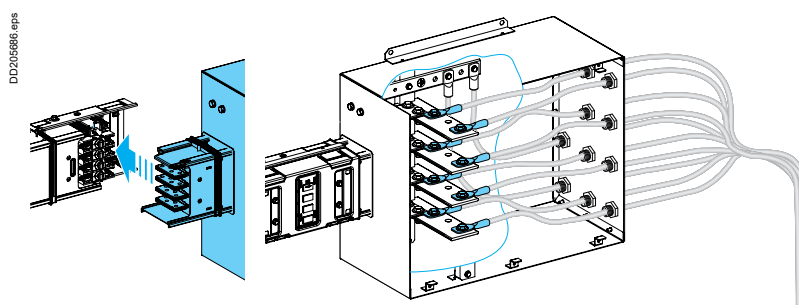
100 and 250 A



400 A



500 to 1000 A



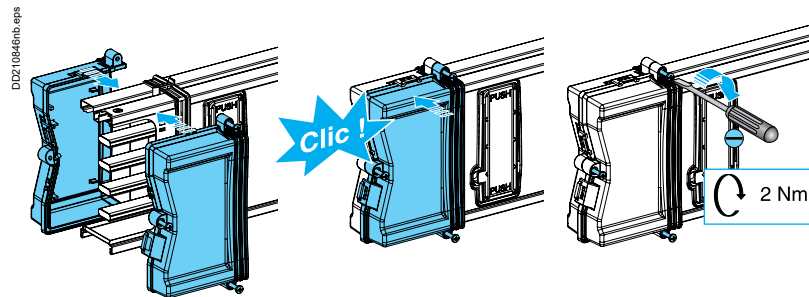
## Characteristics and recommendations

# Busbar trunking for medium power distribution

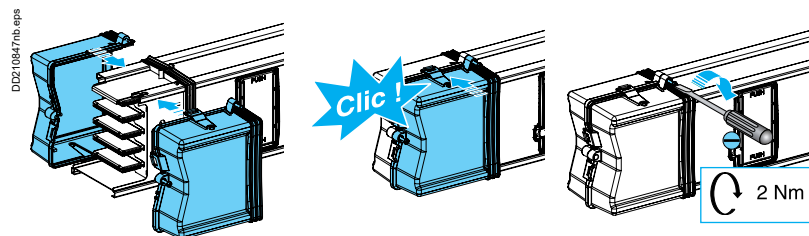
Assembly of trunking components rising mains from 100 to 1000 A

### Assembling the end covers

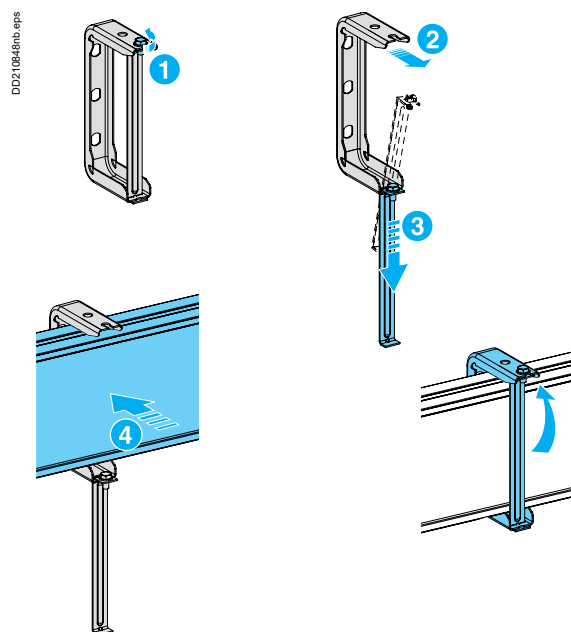
100 to 400 A



500 to 1000 A



### Fixing Canalis KS in the brackets

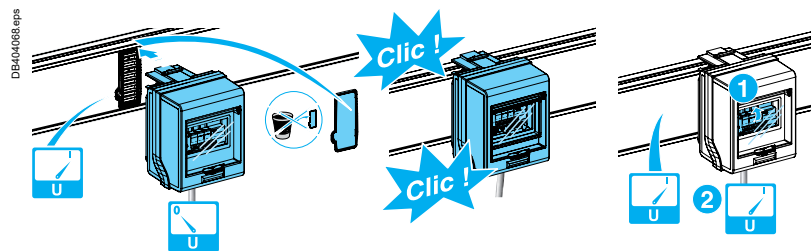


## Characteristics and recommendations

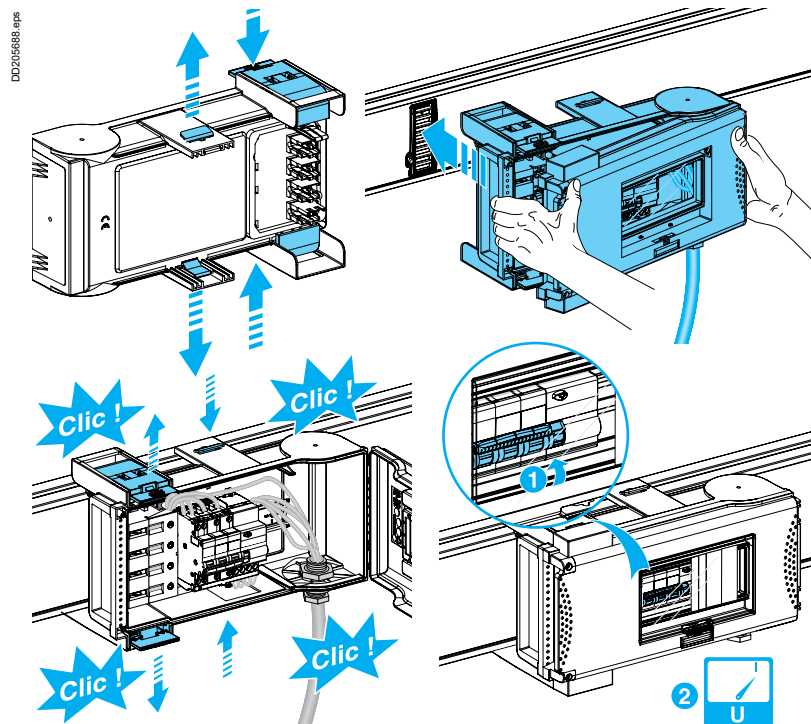
# Busbar trunking for medium power distribution

Assembly of trunking components rising mains from 100 to 1000 A

### Mounting the tap-off unit



### Mounting the tap-off unit with modular devices

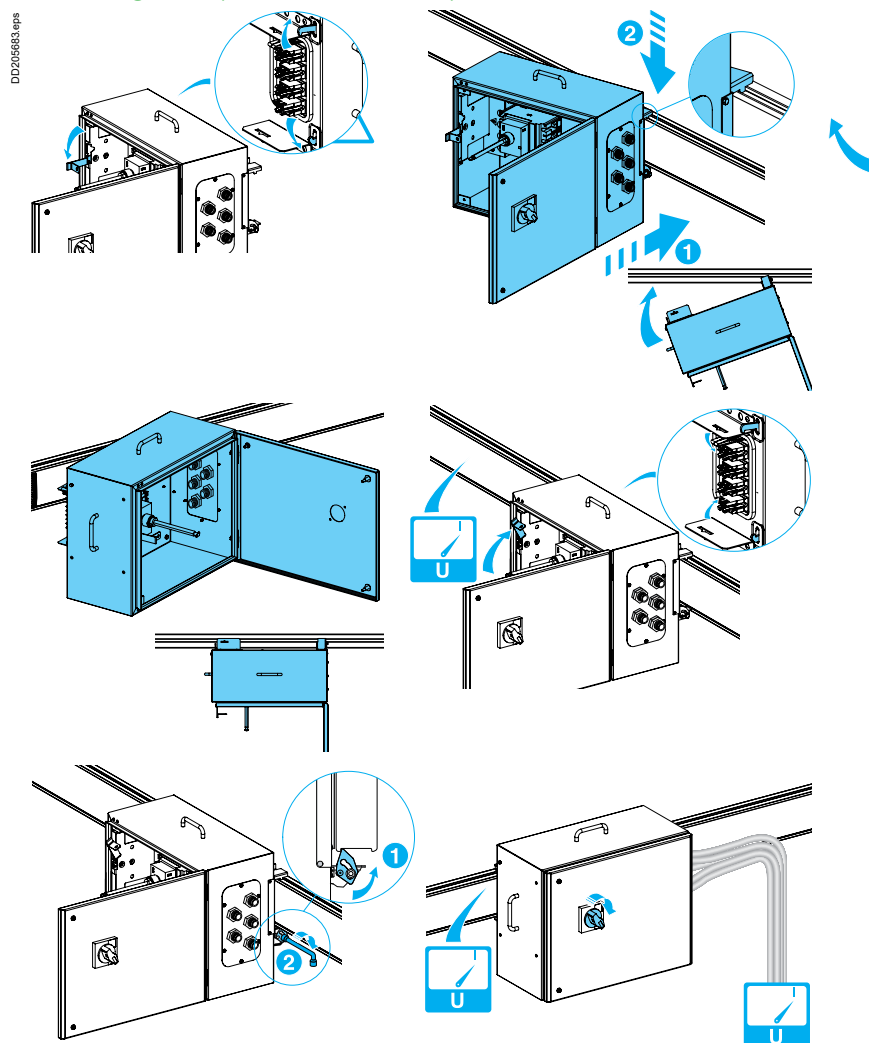


## Characteristics and recommendations

# Busbar trunking for medium power distribution

Assembly of trunking components rising mains from 100 to 1000 A

### Mounting the tap-off unit with Compact NSX circuit breaker

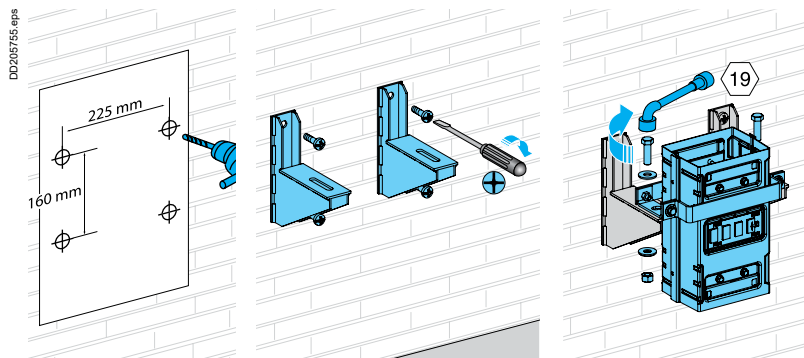


## Characteristics and recommendations

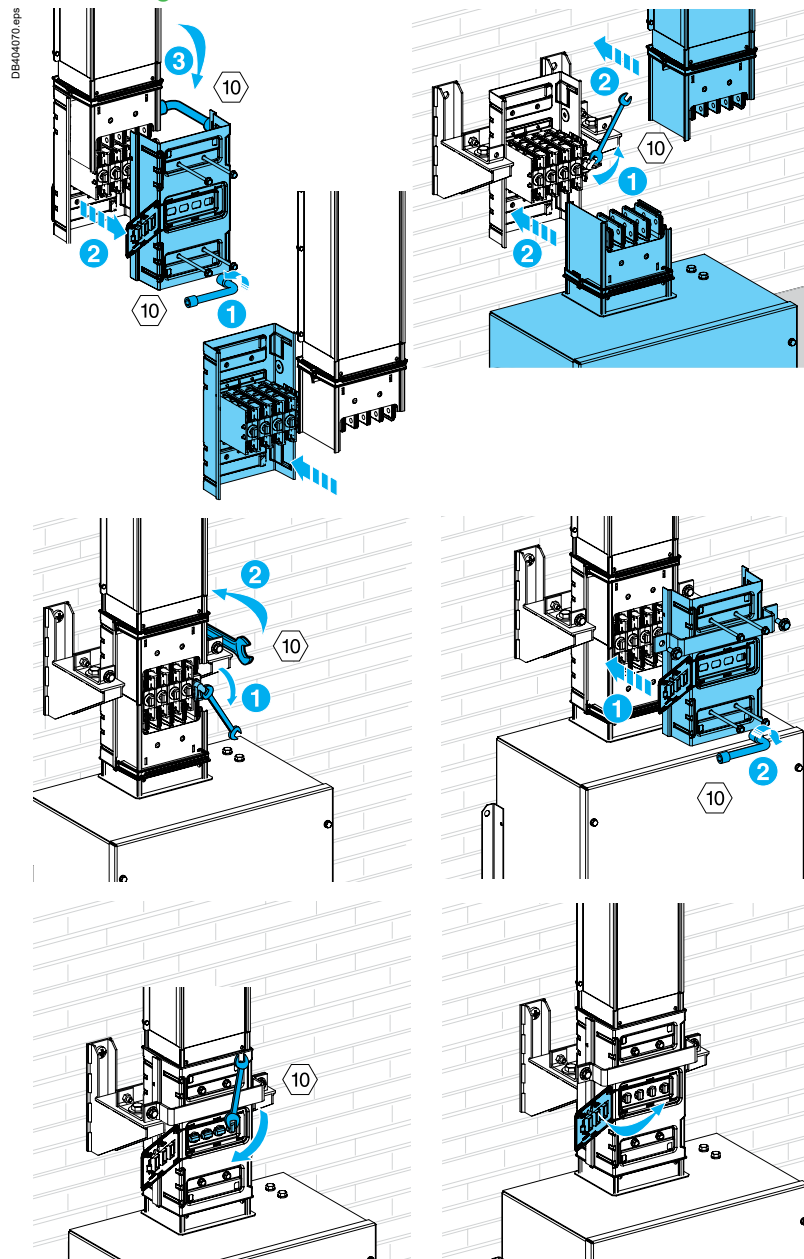
# Busbar trunking for medium power distribution

Assembly of trunking components rising mains from 100 to 1000 A

### Mounting the bottom support



### Connecting the feed-unit

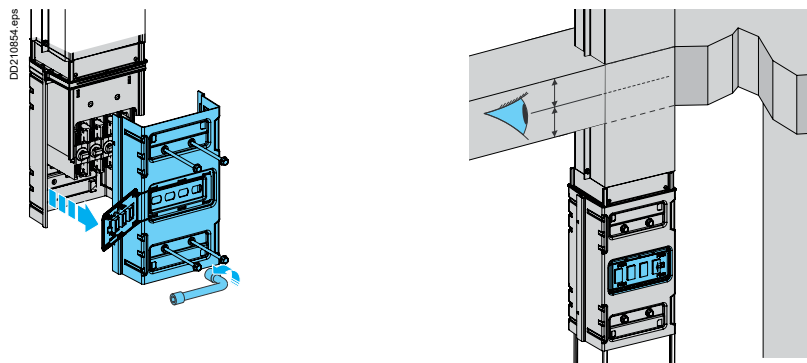


## Characteristics and recommendations

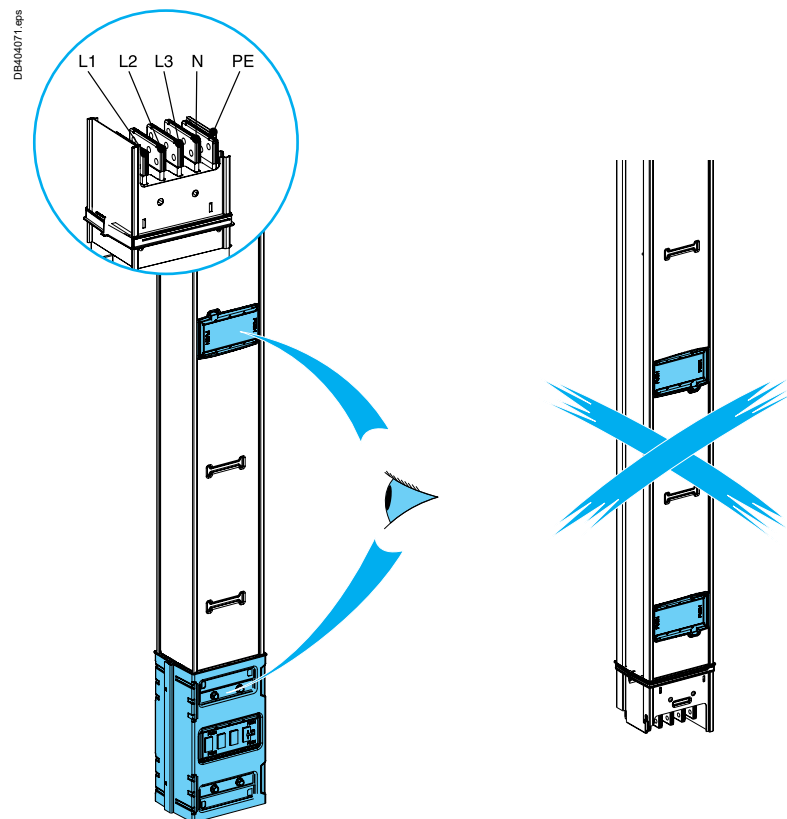
# Busbar trunking for medium power distribution

Assembly of trunking components rising mains from 100 to 1000 A

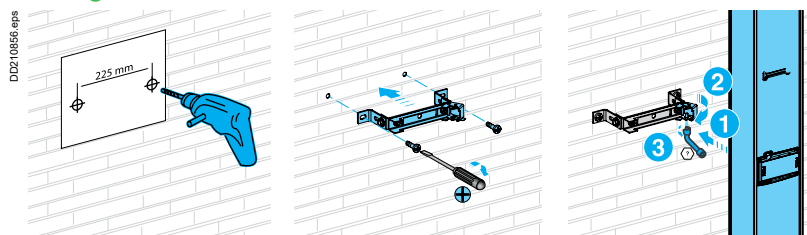
### Mounting the fire barrier



### Position of the tap-off outlets



### Fixing Canalis KS in the brackets



### Mounting the tap-off units

For the mounting of Canalis KS tap-off units, see page 228

# Storage



# Busbar trunking for medium power distribution

## Protection against humidity during storage

If the Canalis KS components are not installed immediately, follow these instructions for correct storage to avoid damage:

- Store the components in the original packing, in a clean, dry space with a constant temperature.
- If outdoor storage is unavoidable, cover the components securely to protect them from harsh environments. Provide temporary electrical heating under the cover to prevent condensation. The temperature must be suitable, and the heating must be evenly distributed under the cover.

Deserts can provide at least 2 specific situations for KS storage from standard other locations:

- Sand pollution.
- Significant thermal variations nights/days that can create condensation due to the colder busduct KS compared from atmosphere when it is humid (this risk should be evaluated from local context).

About sand:

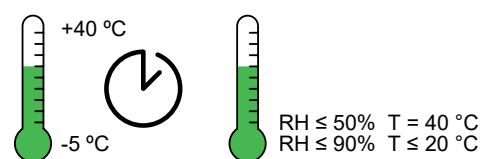
When the products are not installed but in their standard transport packings, we can't completely guaranty the protection against sand/wind to not reach the products. As it's important to keep all electrical contacts clean from any foreign body and abrasion, our products must be protected from sand during storage period before and during installation.

The optional sea-packaging with wood boxes is including a waterproof system, it allows to keep the products protected against the 2 above risks.

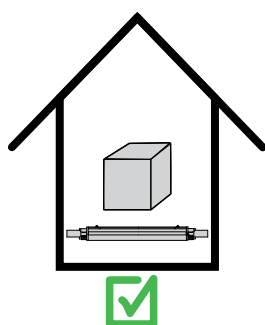
Waterproof, anti-theft, and dust proof



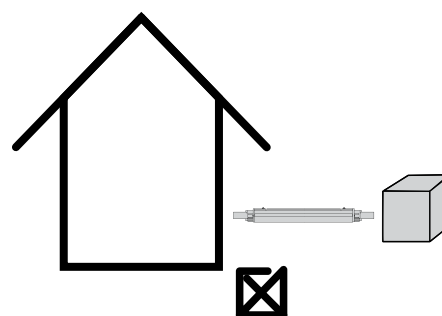
Control temperature and humidity



Indoor storage



Outdoor storage



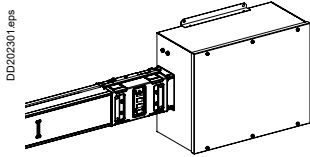
# Maintenance

# Characteristics and recommendations

## Maintenance

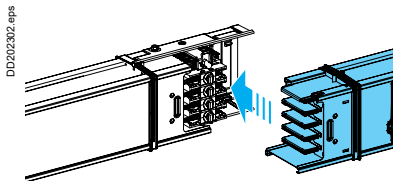
### Maintenance recommendations for your installation

#### Maintenance on power-distribution lines



##### Feed units

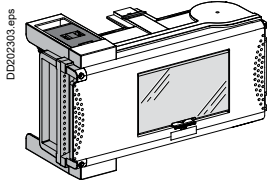
They are equipped with terminals up to 100 A and lug connectors for higher ratings. As for all screw-type connections, it is advised to check tightness one year after installation and then run checks at longer intervals. The feed units are jointed to the first run component of the line (see next paragraph). This connection is maintenance free.



##### Run components

They are interconnected by electrical jointing units providing automatic and simultaneous connection of all live conductors. The contacts are clamp + spring type and exert no forces on the plastic parts. The electrical contacts of the jointing unit for the conductors are silver-plated copper. **This type of sliding connection is maintenance free.**

Components can be dismantled and reused.



##### Tap-off units

Trunking contacts are flexible, made of silver-plated clamps providing optimum contact quality. The contacts do not press or apply any forces on the plastic parts. They connect to the live line conductors at the tap-off outlets. Conductors are made of silver-plated copper at the point of contact. **These components are maintenance free.**

The connections for outgoing cables are made to terminals or using lugs. As for all screw-type connections, it is advised to check tightness one year after installation and then run checks at longer intervals.

#### Other recommendations

##### Maintenance of devices

For all devices installed in Canalis tap-off units, follow the manufacturer's instructions (as for installation in a switchboard).

##### Visual check

###### Cleaning

It is advised to check annually that trunking is clean and to remove any dust, water, oil or other conducting substances or objects from sensitive zones such as junctions, tap-off outlets and tap-off units.

###### External appearance

Check the external appearance of the trunking to detect:

- signs of shocks, in which case it is necessary to check the degree of protection to avoid any risk of insulation faults
- anomalies, i.e. incorrect implementation of the trunking (incorrect supports, etc.)
- traces of corrosion (in particular on supports).

##### Reuse after exposure to water

If a Canalis line is exposed to water during installation, it is necessary to measure the insulation resistance of the line by isolating the supply and the loads.

- If  $R < 0.69 \text{ M}\Omega$ , the installation must not be energised:
  - separate the line in two by removing the jointing unit in the middle
  - locate the affected zone
  - remove all jointing covers and dry the parts using compressed air
  - continue until the insulation resistance is greater than  $0.69 \text{ M}\Omega$
  - the system can then be energised.

# Special applications

# Characteristics and recommendations

## Recommendations for special applications

### Direct current

#### Determining the DC current value

##### Thermal effect

###### Rule

The total power dissipated as heat must remain constant in the duct:  $P_{ac} = P_{dc}$

Where:

- the power dissipated as heat:  $P_{ac} = 3 \times R \times I_{ac}^2$  where:
  - $R$  = resistance of a conductor
  - $I_{ac}$  = conductor rms current
- the dissipated power for 4 conductors:  $P_{dc} = 4 \times R \times I_{dc}^2$  where:
  - $I_{dc}$  = direct current.

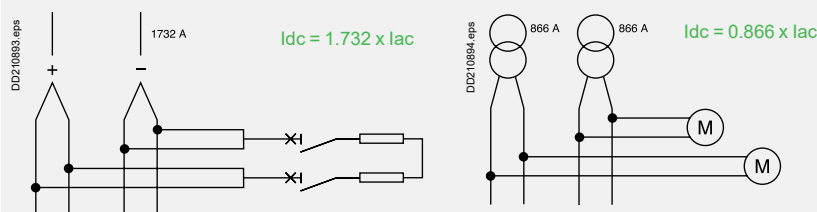
##### Selection table

###### ■ 1 source

Case of 2 conductors in parallel for the + and 2 conductors in parallel for the – (only 1 circuit in the busbar trunking):

###### ■ 2 sources

Case of 1 conductor for the + and 1 conductor for the – (2 circuits possible in the same busbar trunking):



| Rating (A) | 1 source | 2 sources |
|------------|----------|-----------|
| 100        | 173      | 87        |
| 160        | 277      | 139       |
| 250        | 433      | 217       |
| 400        | 693      | 346       |
| 500        | 866      | 433       |
| 630        | 1091     | 546       |
| 800        | 1386     | 693       |
| 1000       | 1732     | 866       |

##### Protection

With DC, there is no zero crossing point of the voltage and current to facilitate arc extinction in the protective device.

The arcing time is longer and the energy that has to be absorbed is higher than for AC.

The voltage of the DC arc must rise to the source voltage very quickly in order to "put out" the short-circuit current.

"Shortened" electrical equation:  $U_{network} = R \times I_{sc} + U_{arc}$  where:

- $I_{sc} = U_{network} - U_{arc} / R$
- $I_{sc} = 0$  when  $U_{arc} = U_{network}$ .

##### Use with specific switchgear

A quick rise in arcing voltage can be achieved by using series fuses, one fuse on the + and one fuse on the – of each circuit.

For some current rating and fuse characteristics, the placing of two fuses in series on each polarity may be specified (highly inductive circuit).

In some cases, two fuses must be placed in parallel for each polarity.

## Characteristics and recommendations

# Recommendations for special applications

## Frequencies 400 Hz

### KS busbar trunking derating at 400 Hz

Values at 35 °C.

Application of a derating coefficient at 400 Hz combined with that for temperature derating.

| Busbar trunking derating at 400 Hz |        |        |        |        |        |        |        |         |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|
|                                    | KSA100 | KSA160 | KSA250 | KSA400 | KSA500 | KSA630 | KSA800 | KSA1000 |
| In (A)                             | 92     | 146    | 221    | 342    | 403    | 514    | 621    | 745     |
| Coefficient K at 400 Hz            | 0.92   | 0.91   | 0.88   | 0.85   | 0.81   | 0.82   | 0.78   | 0.74    |

### Voltage drop

3-phase voltage drop, in millivolts per metre and per amp 400 Hz with load spread over the run.

For a concentration of load at the end of a run (transport), the voltage drops are double those shown in the table below.

| Voltage drop when frequency is 400 Hz in millivolts per meter and per ampere |        |        |        |        |        |        |        |         |
|------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|
|                                                                              | KSA100 | KSA160 | KSA250 | KSA400 | KSA500 | KSA630 | KSA800 | KSA1000 |
| cos $\Phi$ = 1.0                                                             | 0.992  | 0.641  | 0.550  | 0.388  | 0.225  | 0.226  | 0.201  | 0.160   |
| cos $\Phi$ = 0.9                                                             | 0.975  | 0.627  | 0.546  | 0.388  | 0.223  | 0.225  | 0.200  | 0.159   |
| cos $\Phi$ = 0.8                                                             | 0.968  | 0.622  | 0.545  | 0.387  | 0.222  | 0.224  | 0.200  | 0.159   |

### Conductor characteristics

| Conductor impedance at 400 Hz                                                         |        |        |        |        |        |        |        |         |
|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|---------|
|                                                                                       | KSA100 | KSA160 | KSA250 | KSA400 | KSA500 | KSA630 | KSA800 | KSA1000 |
| Average ohmic resistance of phase and neutral conductors at In<br><b>Rb1ph (mΩ/m)</b> | 1.564  | 0.687  | 0.320  | 0.249  | 0.120  | 0.118  | 0.113  | 0.110   |
| Average resistance at In<br><b>Xph (mΩ/m)</b>                                         | 1.203  | 1.207  | 1.264  | 0.942  | 0.535  | 0.551  | 0.506  | 0.405   |

# Characteristics and recommendations

## Recommendations for special applications

### Fire resistance

As required by standards, busbar trunking complies with:

- 1 - material resistance to abnormal temperatures,
- 2 - flame propagation resistance,
- 3 - fire barrier function when going through a partition wall,
- 4 - conservation of all circuits for 1 h 30 in an insulating sheath.

### Definition of tests

#### 1 - Insulating material resistance test to abnormal temperatures

##### Objective

To check a material will not be suspected as being the origin of a secondary fire outbreak. As defined in standards § 9.2 IEC 61439-6 and IEC 60695-2-10 and 2-13.

##### Method

Application of an incandescent wire for 30 seconds on the insulating materials in contact with live parts.

##### Result criteria

The specimen is considered to have passed the incandescent wire test if:

- if there is no visible flame and no sustained incandescence
- the specimen's flames and incandescence go out within 30 seconds of the incandescent wire being removed.

#### 2 - Flame propagation resistance test

##### Objective

To check a busbar trunking will not create secondary fire outbreaks. As defined in standards § 9.101 IEC 61439-6 and IEC 60332 part 3.

##### Method

- Application of a flame for 40 minutes on a straight length of busbar trunking whose centre is located 2.5 metres from the edge of the burner.

##### Result criteria

The specimen is considered to have passed the test if:

- combustion does not occur
- the maximum extent of the burned part (external and internal) of the busbar trunking does not go beyond 2.5 metres above the lower edge of the burner.

#### 3 - Fire barrier test through a partition wall

##### Objective

To check a busbar trunking will not propagate a fire from one room to another by crossing a fire barrier wall for 60, 120, 180, or 240 minutes. As defined in standard EN 1366-3; EN 1363-1; ISO 834; DIN 4102 part 9.

##### Method

The fire barrier busbar trunking section to be tested is placed in an oven which executes a standardised temperature-time curve.

##### Result criteria

The specimen is considered to have passed the test if:

- there are no flames behind the fire barrier
- there is no smoke or gas behind the fire barrier (not requested by the standard; can appear as a remark in the test report)
- the temperature rise of the casing behind the fire barrier does not exceed 180 °C.

#### 4 - Conservation of all circuits in fire conditions test

##### Objective

To check all the busbar trunking's electrical circuits are preserved in fire conditions. As defined in standard DIN 4102 part 12.

##### Method

Its entire length inserted, the busbar trunking is taken as a specimen in an insulating sheath.

##### Result criteria

The specimen is considered to have passed the test if:

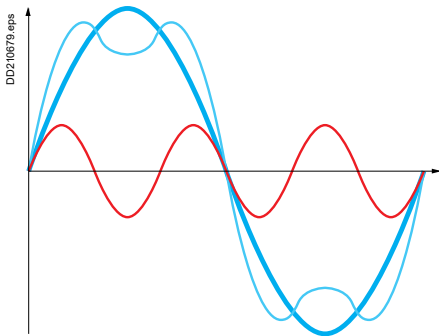
- conductor continuity is preserved
- there is no short-circuit between conductors.

## Characteristics and recommendations

# Recommendations for special applications

## Harmonic currents

### Origin of harmonic currents



Harmonic currents are caused by non-linear loads connected to distribution systems, i.e. by loads that draw current with a waveform different than that of the voltage that supplies them.

The most common non-linear loads are equipment including rectifiers, fluorescent lighting and computer hardware.

In installations with a distributed neutral, non-linear loads may cause significant overloads in the neutral conductor due to the presence of third-order harmonics.

#### Harmonic order

The order is the ratio between the harmonic frequency  $f_n$  and the fundamental frequency (generally the power frequency, 50 or 60 Hz):  $n = f_n / f_1$

By definition, the fundamental  $f_1$  is order 1 (H1).

Third-order harmonics (H3) have a frequency of 150 Hz (when  $f_1 = 50$  Hz).

### Estimating THD (total harmonic distortion)

The presence of third-order harmonics depends on the applications involved. It is necessary to carry out an in-depth study on each non-linear load to determine the level of H3:  $ih3 (\%) = 100 \times i3 / i1$

■  $i3$  = rms current of H3

■  $i1$  = rms current of the fundamental

Assuming that H3 is preponderant among harmonics, the THD is close to the value of H3:  $ih3 (\%)$ .

There are two decisive factors:

- the types of connected devices:
  - disturbing loads: fluorescent lighting, computer hardware, rectifiers, arc furnaces, etc.
  - non-disturbing loads: heating, motors, pumps, etc.
- the ratio between the two types of disturbing loads.



#### Workshops

Mix of disturbing loads (computers, UPSs, fluorescent lighting) and non-disturbing loads (motors, pumps, heating).

#### Low probability of harmonics

THD  $\leq 15$  %.



#### Offices

Numerous disturbing loads (computers, UPSs, fluorescent lighting).

#### High probability of harmonics

$15\% < \text{THD} \leq 33\%$ .

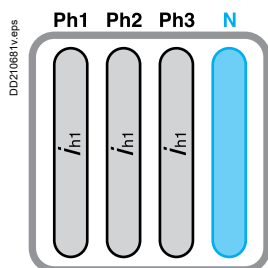


# Characteristics and recommendations

## Recommendations for special applications

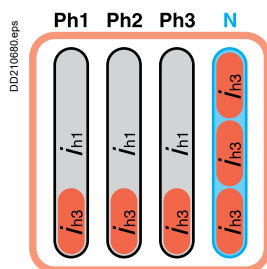
### Harmonic currents

#### Effects of harmonics on Canalis busbar trunking



##### Fundamental frequency: $i_{h1}$ (50 Hz)

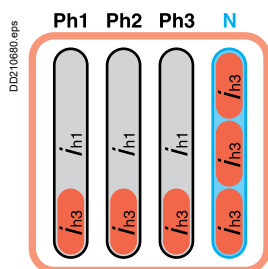
No current in the neutral.  
The conductors are correctly sized.



##### Fundamental frequency: $i_{h1}$ (50 Hz) and 33 % of H3

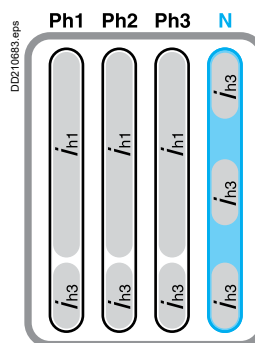
Abnormal temperature rise in the conductors caused by current at a higher frequency in the phases (skin effect) and current in the neutral caused by summing of the H3 harmonics.

#### The only effective solution



##### Fundamental frequency: $i_{h1}$ (50 Hz) and 33 % H3

Reduce the current density in ALL conductors by using appropriately sized trunking.



#### Busbar-trunking selection

| THD ≤ 15 % | 15 % < THD ≤ 33 % | THD > 33 % | Busbar trunking | Rating (A) |
|------------|-------------------|------------|-----------------|------------|
| 25         | 20                | 16         | KBA / KBB       | 25         |
| 40         | 32                | 25         | KBA / KBB       | 40         |
|            |                   |            | KN              | 40         |
| 63         | 50                | 40         | KN              | 63         |
| 100        | 80                | 63         | KN              | 100        |
|            |                   |            | KS              | 100        |
| 160        | 125               | 100        | KS              | 160        |
| 250        | 200               | 160        | KS              | 250        |
| 400        | 315               | 250        | KS              | 400        |
| 500        | 400               | 315        | KS              | 500        |
| 630        | 500               | 400        | KS              | 630        |
| 800        | 630               | 500        | KS              | 800        |
| 1000       | 800               | 630        | KS              | 1000       |

**Example:** For a total rms current of **376 A**, (estimation based on power drawn by loads, including harmonics), the operational current is **400 A**.  
THD is estimated at 30 %. The appropriate trunking is **KS 500 A**.

## Characteristics and recommendations

# Recommendations for special applications

## Canalis for all EV applications

### A new concept for outdoor charging stations



The new energy landscape is bringing tremendous opportunities for electrification to contribute to sustainability goals. Canalis meets the demand for all types of infrastructure.

Canalis for EV offers several benefits compared to the standard solution through cables.

- Canalis for EV offers several benefits compared to the standard solution through cables.
- Flexible: compatible with all chargers, regardless of brand, power, etc.
- Scalable: expandable whenever required
- Simple: easy to select, easy to order, easy to transport, easy to install, maintain, and extend.

## Characteristics and recommendations

# Recommendations for special applications

### Canalis for all EV applications

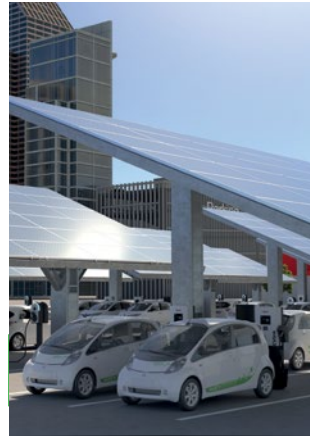
#### A new concept for outdoor charging stations



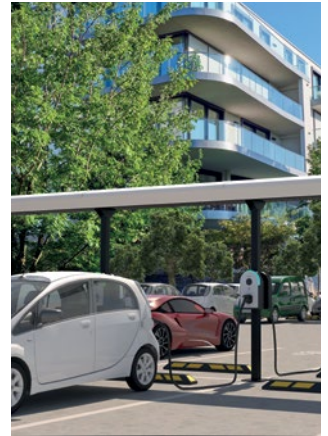
Indoor  
car park



Multi-storey  
car park



Under PV  
carport



Outdoor Charging  
Infrastructure

The large-scale deployment of charging infrastructure in outdoor car parks is needed to support the transition to electric vehicles.

Busbar trunking system is a suitable solution that is fast to install and expand. It can help you prepare you for future uncertainty.

Canalis for EV is a plug-and-play system, powered by Canalis KS and based on a modular design.

It is composed of prefabricated parts which are available through the distribution network.

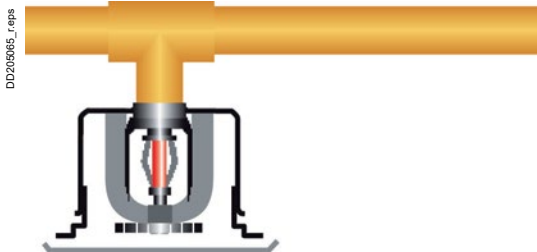
For more information refer DEBU039EN – Canalis for EV Outdoor Charging Infrastructure.

## Characteristics and recommendations

# Recommendations for special applications

## Sprinkler test certification

### What is a sprinkler?



A sprinkler is a sprinkling device blanked off by a heat-sensitive component. It is designed to deliver water when the temperature to which it is subjected exceeds its calibration value.

The main aim of the installation is to lower the temperature in the accident area by wetting the ignited and adjacent materials by spraying water in the form of fine droplets.

The transformation of these droplets into water vapour captures a lot of energy from the fire and extinguishes it quickly. Moreover, this increased volume prevents air from flowing to the heart of the fire.

When a fire develops, ambient temperature rises to reach the calibration value. Water then leaves the sprinkler opening and strikes a deflector that projects it onto the fire in a certain form. Ground coverage ranges between 9 and 12 m<sup>2</sup> according to mounting height.

A sprinkler delivers between 60 and 120 l/min according to the hazard class.

On nuisance tripping lasting a few minutes, some hundreds of litres of water are released. IPx5 approval as per standard IEC 60529 does not guarantee non ingress of water in the busbar trunking in these conditions, as the water volumes, test duration and projection distance vary (nozzle 22.5 mm in diameter, at a distance of 2.5-3 m, with a water volume of 12.5 l/min for 1 min/m<sup>2</sup> for at least 3 min).

To provide you with all necessary guarantees, Schneider Electric has chosen to go further still than the IP55 test by subjecting its busbar trunking to an extremely severe "sprinkler" test.



Canalis KBA supplying luminaires nearby sprinklers.

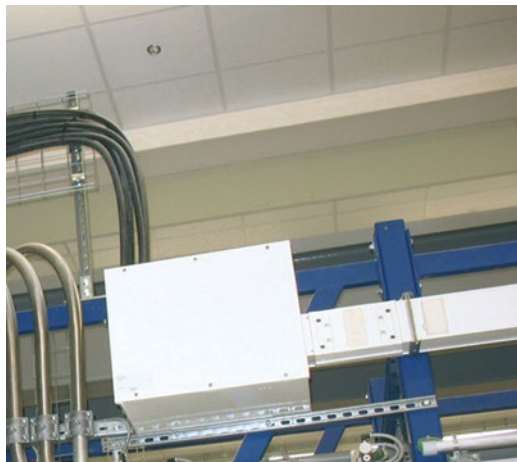
# Characteristics and recommendations

## Recommendations for special applications

### Sprinkler test certification

#### Sprinkler test procedure

PD02042W/eps



Canalis KS and sprinkler.

#### Chronology

In view of the absence of reference standard for sprinkler tests, we have chosen to apply the following procedure:

- insulation resistance test (1000 V)
- dielectric properties test (2.5 kV, 5 s: IEC 61439-1 & 6)
- water projection
- 5 min break
- insulation resistance test (1000 V)
- dielectric properties test (2.5 kV, 5 s: IEC 61439-1 & 6)

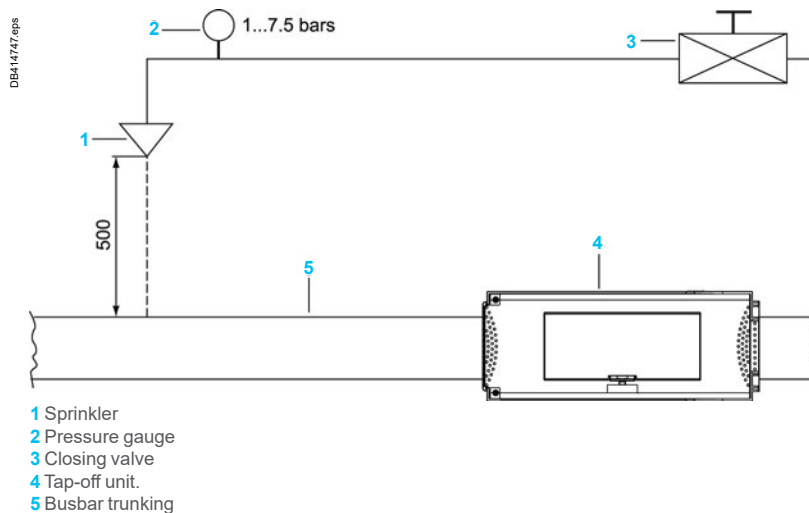
#### Water projection,

2 configurations, with or without energisation:

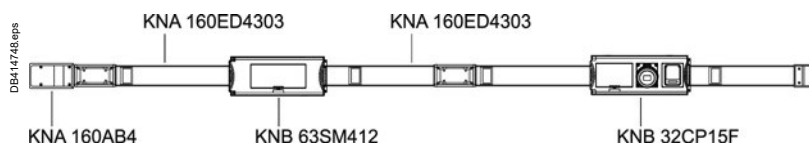
- horizontally installed busbar trunking:
  - 15 min water projection with sprinkler type K-Wert 115, NF ¾, 7.5 bar, 314 L/min
  - 35 min water projection with sprinkler type K-Wert 115, NF ¾, 1 bar, 115 L/min
- vertically installed busbar trunking:
  - 15 min water projection with sprinkler type K-Wert 80, NF ½, 7.5 bar, 314 L/min
  - 35 min water projection with sprinkler type K-Wert 80, NF ½, 1 bar, 80 L/min.

#### Mounting position

The distance between the sprinkler head and the busbar trunking is 500 mm.



#### Test configuration



#### Test results

Busbar trunkings KBA, KBB, KN and KS have undergone the sprinkler test.

This test, if successful, proves that our busbar trunkings can operate during and immediately after sprinkling of a line by a sprinkler for a period of 50 min.

## Characteristics and recommendations

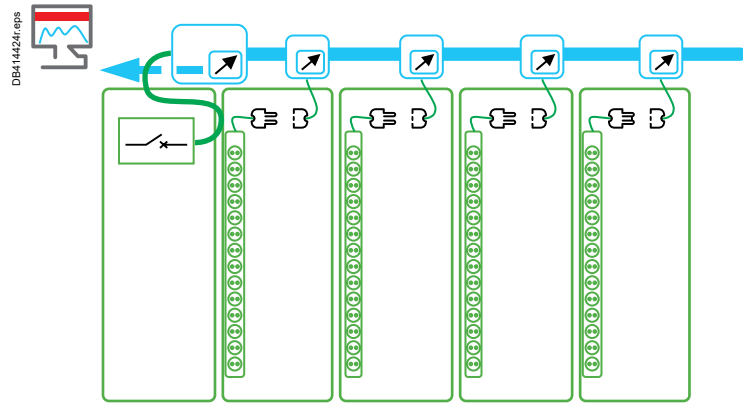
# Recommendations for special applications

## Measurements and metering: Canalis part of StruxureWare

### Loads monitored by a power meter in tap-off units



Line capacity is managed in real time.  
Information is available on the monitoring system.



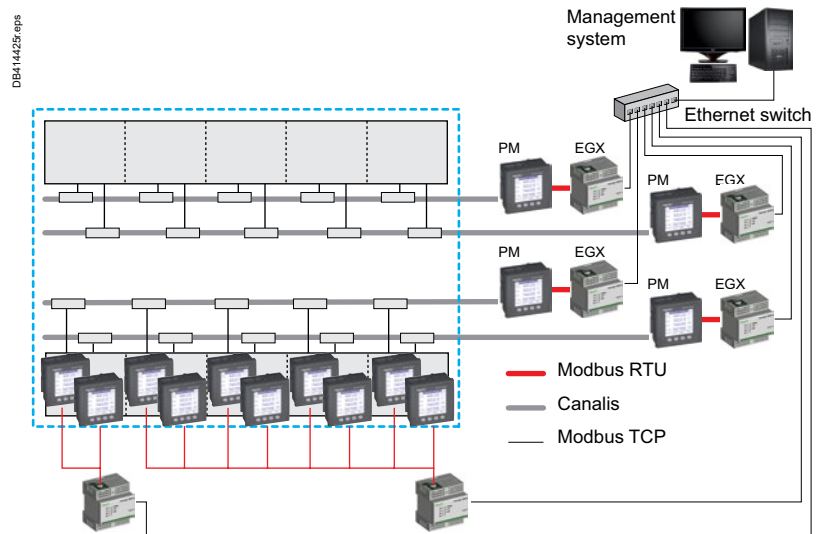
#### Functions available:

- Protection of Canalis lines by Compact NSX circuit breakers (100 A, 160 A, 250 A or 400 A rating).
- Protection of loads by circuit breakers from the Acti 9 range (single-phase or 3-phase 16 A, 32 A or 63 A) with or without differential protection (30 mA).
- Feed units are equipped with front panel-mounted sockets or wander sockets (IEC 309).
- For loads, measures power rate, phase balancing, THD, power factor, voltage, current, active and reactive power and consumption.

#### Architecture diagram:



Compact NSX circuit breakers can be fitted with Micrologic power meter.





| Former cat. numbers | New cat. numbers |
|---------------------|------------------|
| <b>KSA</b>          |                  |
| KSA02CF5            | KSB32CF5         |
| KSA02DA50010        | KSB32CM55        |
| KSA05AZ1            | Cancelled        |
| KSA05DA40010        | KSB63SM48        |
| KSA05DA50010        | KSB63SM58        |
| KSA05SF41           | KSB50SF4         |
| KSA05SF5            | KSB50SF5         |
| KSA1000DLC4A        | KSA1000DLL41A    |
|                     | KSA1000DLL42A    |
|                     | KSA1000DLR41A    |
|                     | KSA1000DLR42A    |
| KSA1000DLC4B        | KSA1000DLR43A    |
|                     | KSA1000DLC43B    |
| KSA1000DLC4CF       | KSA1000DLL41F    |
|                     | KSA1000DLL42F    |
|                     | KSA1000DLR41F    |
|                     | KSA1000DLR42F    |
|                     | KSA1000DLR43F    |
| KSA1000DLE4A        | KSA1000DLE41A    |
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|                     | KSA1000DLE43A    |
| KSA1000DLE4B        | KSA1000DLE43B    |
| KSA1000DLE4CF       | KSA1000DLE41F    |
|                     | KSA1000DLE42F    |
|                     | KSA1000DLE43F    |
| KSA1000DLF4A        | KSA1000DLF41A    |
|                     | KSA1000DLF42A    |
|                     | KSA1000DLF43A    |
| KSA1000DLF4B        | KSA1000DLF43B    |
| KSA1000DLF4CF       | KSA1000DLF41F    |
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|                     | KSA1000DLF43F    |
|                     | KSA1000DMBK41A   |
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| KSA1000DMBL4A       | KSA1000DMBL41A   |
|                     | KSA1000DMBL43A   |
| KSA1000DMBL4CF      | KSA1000DMBL41F   |
|                     | KSA1000DMBL43F   |
| KSA1000DMCK4A       | KSA1000DMCK41A   |
|                     | KSA1000DMCK43A   |
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| KSA1000DMCL4CF      | KSA1000DMCL41F   |
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| KSA1000DZCG4A       | KSA1000DZCG41A   |
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| KSA1000DZCG4CF      | KSA1000DZCG41F   |
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| KSA1000DZCH4CF      | KSA1000DZCH41F   |
|                     | KSA1000DZCH43F   |
| KSA1000DZE4A        | KSA1000DZE41A    |
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| KSA1000DZE4CF       | KSA1000DZE41F    |
|                     | KSA1000DZE43F    |
| KSA10AB451          | KSA100AB4        |
| KSA10DB40030        | KSB100SM412      |
| KSA10DB50030        | KSB100SM512      |
| KSA10EA430          | KSA100ED4306     |
| KSA10EA450          | KSA100ED45010    |
| KSA10SF41           | KSB100SF4        |
| KSA10SF5            | KSB100SF5        |
| KSA12AZ1            | Cancelled        |
| KSA12AZ2            | Cancelled        |
| KSA12AZ40           | KSA12AZ40        |
| KSA12HD502          | KSB125HD502      |

| Former cat. numbers | New cat. numbers |
|---------------------|------------------|
| KSA12SF41           | KSB100SF4        |
|                     | KSB160SF4        |
| KSA12SF5            | KSB100SF5        |
|                     | KSB160SF5        |
| KSA12SV4            | KSB100SV4        |
|                     | KSB160SV4        |
| KSA12SV5            | KSB100SV5        |
|                     | KSB160SV5        |
| KSA16AZ1            | Cancelled        |
| KSA16AZ40           | KSB160ZC1        |
| KSA16DB411          | KSB160DC4        |
| KSA16DB412          | KSB160DB412      |
| KSA16DB511          | KSB160DC5        |
| KSA16DB512          | KSB160DB512      |
| KSA16EA430          | KSA160ED4306     |
| KSA16EA450          | KSA160ED45010    |
| KSA16SF3            | KSB160SF4        |
| KSA16SF41           | KSB160SF4        |
| KSA16SF5            | KSB160SF5        |
| KSA250DLC4A         | KSA250DLL41A     |
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|                     | KSA250DZE41F     |
| KSA250DZE4CF        | KSA250DZE43F     |
|                     | KSA250AB4        |
| KSA25AB42           | KSA250AB4        |

# Characteristics and recommendations

## Index

### Replacement table

| Former cat. numbers | New cat. numbers |
|---------------------|------------------|
| KSA25BT42           | KSA250ABT4       |
| KSA25DB411          | KSB250DC4        |
| KSA25DB412          | KSB400DB412      |
| KSA25DB511          | KSB250DC5        |
| KSA25DB512          | KSB400DB512      |
| KSA25EB430          | KSA250ED4306     |
| KSA25EB450          | KSA250ED45010    |
| KSA25ED415          | KSA250ED4156     |
| KSA25ED420          | KSA250ED4208     |
| KSA25EF4A           | KSA250ET4AF      |
| KSA25ER4            | KSA250AE4        |
| KSA25ES4A           | KSA250ET4A       |
| KSA25EZ1            | KSB400ZF1        |
| KSA25HD502          | KSB250HD502      |
| KSA25LC40           | KSA250DLC40      |
| KSA25LP41           | KSA250DLE40      |
| KSA25LP42           | KSA250DLF40      |
| KSA25SF3            | KSB250SE4        |
| KSA25SF41           | KSB250SE4        |
| KSA25SF5            | KSB250SE5        |
| KSA25TC40           | KSA250DTC40      |
| KSA25XC40           | KSA250DXC40      |
| KSA40HD502          | KSB400HD502      |
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| KSA400DMCK4CF       | KSA400DMCK41F    |
|                     | KSA400DMCK43F    |
| KSA400DMCL4A        | KSA400DMCL41A    |
|                     | KSA400DMCL43A    |
| KSA400DMCL4CF       | KSA400DMCL41F    |
|                     | KSA400DMCL43F    |
| KSA400DZCG4A        | KSA400DZCG41A    |
|                     | KSA400DZCG43A    |
| KSA400DZCG4CF       | KSA400DZCG41F    |
|                     | KSA400DZCG43F    |
| KSA400DZCH4A        | KSA400DZCH41A    |
|                     | KSA400DZCH43A    |

| Former cat. numbers | New cat. numbers |
|---------------------|------------------|
| KSA400DZCH4CF       | KSA400DZCH41F    |
|                     | KSA400DZCH43F    |
| KSA400DZE4A         | KSA400DZE41A     |
|                     | KSA400DZE43A     |
| KSA400DZE4CF        | KSA400DZE41F     |
|                     | KSA400DZE43F     |
| KSA40AZ1            | Cancelled        |
| KSA40DB411          | KSB400DC4        |
| KSA40DB412          | KSB400DB412      |
| KSA40DB511          | KSB400DC5        |
| KSA40DB512          | KSB400DB512      |
| KSA40ED430          | KSA400ED4306     |
| KSA40ED450          | KSA400ED45010    |
| KSA40SF3            | KSB400SE4        |
| KSA40SF41           | KSB400SE4        |
| KSA40SF5            | KSB400SE5        |
| KSA50AB452          | KSA400AB4        |
| KSA50AB452          | KSA630ABD4       |
| KSA50AB462          | KSA400AB4        |
| KSA50AB462          | KSA630ABG4       |
| KSA50BT402          | KSA630ABT4       |
| KSA50ED415          | KSA400ED4156     |
| KSA50ED415          | KSA630ED4154     |
| KSA50ED420          | KSA400ED4208     |
| KSA50ED420          | KSA630ED4206     |
| KSA50ED430          | KSA500ED4306     |
| KSA50ED450          | KSA500ED45010    |
| KSA50EF4A           | KSA500ET4AF      |
| KSA50ER4            | KSA630AE4        |
| KSA50ES4A           | KSA630ET4A       |
| KSA50LC40           | KSA630DLC40      |
| KSA50LP41           | KSA630DLE40      |
| KSA50LP42           | KSA630DLF40      |
| KSA50TC40           | KSA630DTC40      |
| KSA50XC40           | KSA630DXC40      |
| KSA630DLC4A         | KSA630DLL41A     |
|                     | KSA630DLL42A     |
|                     | KSA630DLR41A     |
|                     | KSA630DLR42A     |
|                     | KSA630DLR43A     |
| KSA630DLC4B         | KSA630DLC43B     |
| KSA630DLC4CF        | KSA630DLL41F     |
|                     | KSA630DLL42F     |
|                     | KSA630DLR41F     |
|                     | KSA630DLR42F     |
|                     | KSA630DLR43F     |
| KSA630DLE4A         | KSA630DLE41A     |
|                     | KSA630DLE42A     |
|                     | KSA630DLE43A     |
| KSA630DLE4B         | KSA630DLE43B     |
| KSA630DLE4CF        | KSA630DLE41F     |
|                     | KSA630DLE42F     |
|                     | KSA630DLE43F     |
| KSA630DLF4A         | KSA630DLF41A     |
|                     | KSA630DLF42A     |
|                     | KSA630DLF43A     |
| KSA630DLF4B         | KSA630DLF43B     |
| KSA630DLF4CF        | KSA630DLF41F     |
|                     | KSA630DLF42F     |
|                     | KSA630DLF43F     |
| KSA630DMBK4A        | KSA630DMBK41A    |
|                     | KSA630DMBK43A    |
| KSA630DMBK4CF       | KSA630DMBK41F    |
|                     | KSA630DMBK43F    |
| KSA630DMBL4A        | KSA630DMBL41A    |
|                     | KSA630DMBL43A    |
| KSA630DMBL4CF       | KSA630DMBL41F    |
|                     | KSA630DMBL43F    |
| KSA630DMCK4A        | KSA630DMCK41A    |
|                     | KSA630DMCK43A    |
|                     | KSA630DMCK43A    |



# Characteristics and recommendations

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### Replacement table

| Former cat. numbers | New cat. numbers               |
|---------------------|--------------------------------|
| KSA630DMCK4CF       | KSA630DMCK41F<br>KSA630DMCK43F |
| KSA630DMCL4A        | KSA630DMCL41A<br>KSA630DMCL43A |
| KSA630DMCL4CF       | KSA630DMCL41F<br>KSA630DMCL43F |
| KSA630DZCG4A        | KSA630DZCG41A<br>KSA630DZCG43A |
| KSA630DZCG4CF       | KSA630DZCG41F<br>KSA630DZCG43F |
| KSA630DZCH4A        | KSA630DZCH41A<br>KSA630DZCH43A |
| KSA630DZCH4CF       | KSA630DZCH41F<br>KSA630DZCH43F |
| KSA630DZE4A         | KSA630DZE41A<br>KSA630DZE43A   |
| KSA630DZE4CF        | KSA630DZE41F<br>KSA630DZE43F   |
| KSA63ED430          | KSA630ED4306                   |
| KSA63ED450          | KSA630ED45010                  |
| KSA63SF41           | KSB630SE4                      |
| KSA63SF5            | KSB630SE5                      |
| KSA80EF4A           | KSA800ET4AF                    |
| KSA80ER4            | KSA1000AE4                     |
| KSA80ES4A           | KSA1000ET4A                    |
| KSA80EZ3            | KSB1000ZF1                     |
| KSA80LC40           | KSA1000DLC40                   |
| KSA80LP41           | KSA1000DLE40                   |
| KSA80LP42           | KSA1000DLF40                   |
| KSA80TC40           | KSA1000DTC40                   |
| KSA80XC40           | KSA1000DXC40                   |

#### KSB

|          |            |
|----------|------------|
| KSB25FA3 | KSA400AF1  |
| KSB25YA4 | KSB25YA4   |
| KSB50FA2 | KSA800AF1  |
| KSB50YA4 | KSB50YA4   |
| KSB80FA2 | KSA1000AF1 |
| KSB80YA4 | KSB80YA4   |

#### KSE

|            |             |
|------------|-------------|
| KSE02CD5   | KSB16CN5    |
| KSE02CF5   | KSB32CF5    |
| KSE02CG5   | KSB20CG5    |
| KSE02SD41  | KSB25SD4    |
| KSE02SD5   | KSB25SD5    |
| KSE03SG41  | KSB32SG4    |
| KSE05DA4   | KSB63SM48   |
| KSE05DA5   | KSB63SM58   |
| KSE05SD41  | KSB50SN4    |
| KSE05SD5   | KSB50SN5    |
| KSE05SF41  | KSB50SF4    |
| KSE05SF5   | KSB50SF5    |
| KSE06SD41  | KSB63SD4    |
| KSE06SD5   | KSB63SD5    |
| KSE08SG41  | KSB80SG4    |
| KSE10DA4   | KSB100SM412 |
| KSE10DA5   | KSB100SM512 |
| KSE10SD41  | KSB100SE4   |
| KSE10SD5   | KSB100SE5   |
| KSE10SF41  | KSB100SF4   |
| KSE10SF5   | KSB100SF5   |
| KSE16DB411 | KSB160DC4   |
| KSE16DB511 | KSB160DC5   |
| KSE16SD3   | KSB160SE4   |

| Former cat. numbers | New cat. numbers |
|---------------------|------------------|
| KSE16SD41           | KSB160S E4       |
| KSE16SD5            | KSB160SE5        |
| KSE16SF3            | KSB160SF4        |
| KSE16SF41           | KSB160SF4        |
| KSE16SF5            | KSB160SF5        |
| KSE16SG41           | KSB160SG4        |
| KSE25DB411          | KSB250DC4        |
| KSE25DB511          | KSB250DC5        |
| KSE25SF3            | KSB250SE4        |
| KSE25SF41           | KSB250SE4        |
| KSE25SF5            | KSB250SE5        |
| KSE25YA2            | KSE25YA2         |
| KSE25YA3            | KSE25YA3         |
| KSE40DB411          | KSB400DC4        |
| KSE40DB511          | KSB400DC5        |
| KSE40SF3            | KSB400SE4        |
| KSE40SF41           | KSB400SE4        |
| KSE40SF5            | KSB400SE5        |
| KSE80YA2            | KSE80YA2         |

## Notes





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07-2025  
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