Line Series Canalis KTA 800 - 5000 A

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Catalogue 2022 Busbar trunking systems Aluminium

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Green Premium™

An industry leading portfolio of offers delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- Circularity instructions



Discover what we mean by green Check your products!

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognized environmental claims and extended to cover all offers including Products, Services and Solutions.

CO₂ and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO_2 emissions.

Cost of ownership optimization through... Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through... Well-being Performance

Green Premium products are RoHS and REACh compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

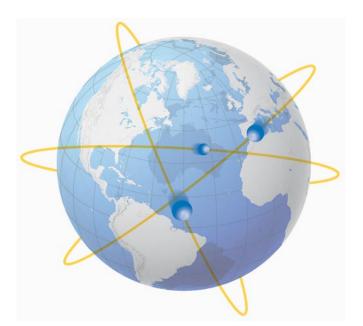
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Introduction

Canalis the ideal offer to match with your needs



+70,000

More than 70,000 km of Canalis busbar trunking has been sold around the world.

A total coordination with the Schneider Electric system

- Canalis is part of a comprehensive offering of Schneider Electric products designed to operate together.
- It guarantees and enhances the safety of people and equipment, and provides installation continuity of service, upgradeability and simplicity.
- This concept covers all low voltage electrical distribution components.
- The result is an optimised electrical installation with even higher performance through full electrical, mechanical and communication compatibility.
- It is perfectly suited to traditional applications (factories, warehouses, etc.)and to the distribution of electrical power from the incoming transformer on through to all types of loads in offices, commercial premises, laboratories, etc.

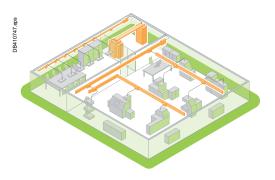


Canalis KT provides you ...

- ... more flexibility.
- ... ease of connection with the "plug and play" transformer and switchboard connections.
- ... more assistance with our teams ready to assist you throughout your project.

Introduction A Canalis installation for every distribution system

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



Decentralized distribution

For manufacturing

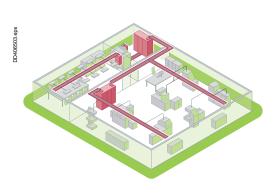
industries

- 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.



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.

DB 410746.eps

Combined distribution

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

Telecommunications

Internet data centres

• Tunnels, etc.

Commercial and service buildings

Infrastructures Airports

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

Industrial facilities

- · Pharmaceuticals
- · Food processing, etc.

The Canalis decentralized distribution concept

Electrical power available at all points within the installation

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

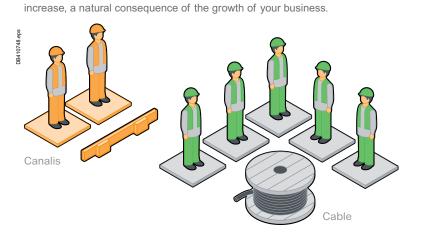
Total coordination is made easy by the tables in the "Design Guide". They help you choose the right combination of circuit breakers and busbar trunking. Product characteristics are verified by calculations and tests carried out in our laboratories.



A competitive installation

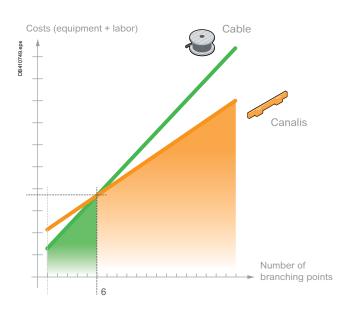
Simplicity, upgradeability, safety and continuity of service and operation.

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



Comparative investment

of 400 A electric power system equipment.

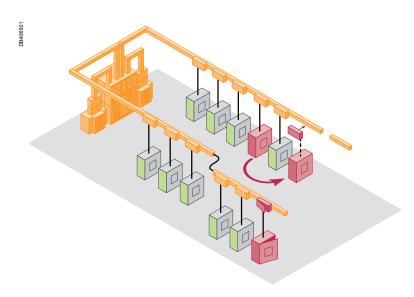


Introduction The Canalis decentralized distribution concept

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.



Reusable in the event of major changes

When making major modifications to your installation, the existing trunking can be easily dismantled and reused.

Introduction 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 must comply with existing requirements while being flexible, networked and smart. The Canalis concept is undoubtedly the best solution to meet the needs of today and the challenges of tomorrow.

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.

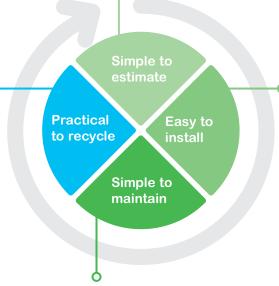
It is therefore very quick to cost the distribution functions. Moreover, Canalis's flexibility means you can invest in existing needs without adversely affecting future expansion.

Practical to recycle

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

The composition of Canalis ranges guarantees 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.



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 essential functions are guaranteed:

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

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 ensures a very high level of quality on site and considerably improves the success of site acceptance tests.

Introduction Canalis, in total harmony with the environment

Safety of life and property



With Canalis, no toxic emission in case of fire

The busbar trunking has a low combustible load.Its construction uses very little consumable material and is halogen free. In the event of a fire, the busbar trunking does not emit any gas or toxic smoke.

The busbar trunking helps prevent the propagation of a fire through partition walls and floors.

Halogen-sensitive applications

• Public buildings (infrastructures, hospitals, schools, etc.).

- Buildings with evacuation difficulties (high-rises, ships, etc.)
- and service-activity buildings.Sensitive processes (production of electronic components, etc.).

Canalis contains no PVCs

When PVCs burn, they produce large amounts of smoke that can be a serious safety hazard.

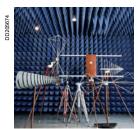
- Reduced visibility:
- > risk of panic
- > complicates rescue work.
- Smoke toxicity:
- > hydrogen chloride gas (highly toxic)
- > carbon monoxide (danger of
- asphyxiation).

Example:

Consequences of a fire in a 100 m² office with electrical distribution by cables. 200 kg of cables (i.e. 20 kg of PVC) produces:

- 4400 m³ of smoke.
- 7.5 m³ of hydrochloric acid.
- 3.7 kg of corroded steel.

Health



Canalis reduces the risk of exposure to electromagnetic fields

According to the WHO (World Health Organisation), exposure to electromagnetic fields can be a health hazard starting at levels as low as 0.2 micro-Teslas and could represent a longterm risk of cancer. Some countries have created standards that stipulate limits (e.g. $0.2 \ \mu T$ at 1 metre in Sweden).

All electrical conductors generate magnetic fields proportional to the distance between them. The design of Canalis busbar trunking with tightly spaced conductors in a metal enclosure helps to considerably reduce radiated electromagnetic fields.

The electromagnetic field characteristics of Canalis busbar trunking are welldefined and measurements show that they are far below potentially dangerous levels.

You will find the magnetic induction values of our products on the "Characteristics" pages.

Introduction

Canalis, in total harmony with the environment

Environment



Canalis is fully recyclable

- Canalis busbar trunking can be reused. Canalis busbar trunking is designed for a long service life and can easily be dismantled, cleaned and reused.
- All packaging materials can be recycled (cardboard or recyclable polyethylene film).
- All Canalis products are designed for safe end-of-life recycling. PVC, on the other hand, requires neutralisation of the hydrochloric acid produced using lime and generates dioxins that are extremely toxic.

Example:

1 kg of PVC generates 1 kg of waste.



Canalis helps conserve natural resources

The depletion of raw materials (copper, plastics, etc.) is one of our ongoing concerns. For this reason, we have optimised the used of all materials used to make our busbar trunking.

- Reduction of dangerous or polluting materials. We design our products to meet future European directives.
- Reduction in the weight of insulating materials.
- Reduction in the use of plastics for improved fire performance: less energy released during combustion, thereby limiting propagation and facilitating extinction (lower calorific value).

Conservation of natural resources

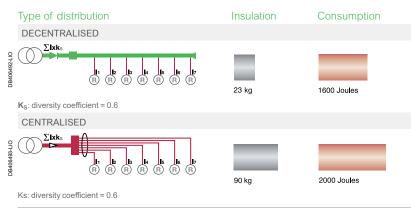


Canalis reduces your line losses by 20 % Canalis divides your consumption of plastic by a factor of four

The cost of an electrical installation includes the initial investment for the equipment and its installation, the cost of maintenance and the cost of energy losses during operation. The concept of decentralised distribution is a way to merge all the circuits in one and thus to reduce to the maximum the low cross-section lengths and the weight of insulating materials.

Example:

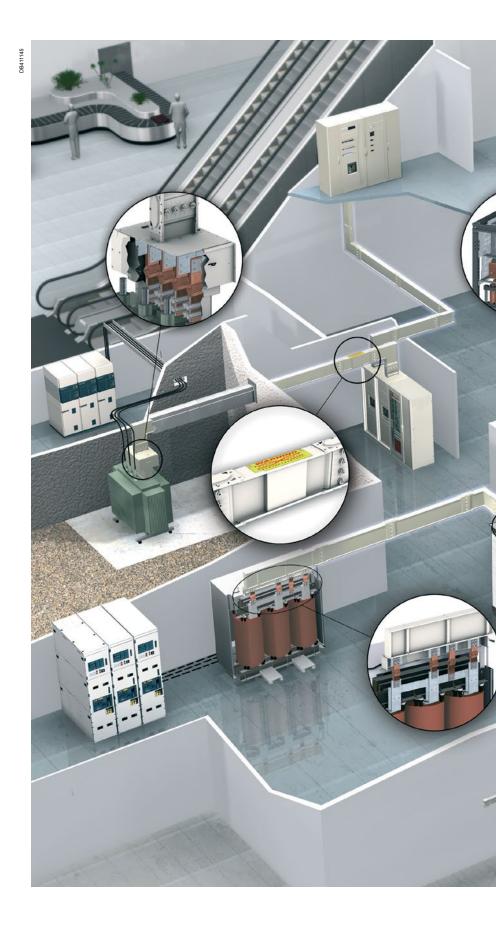
34 m of Canalis KS 250 A trunking equipped with fourteen 4-pole 25 A feeders.

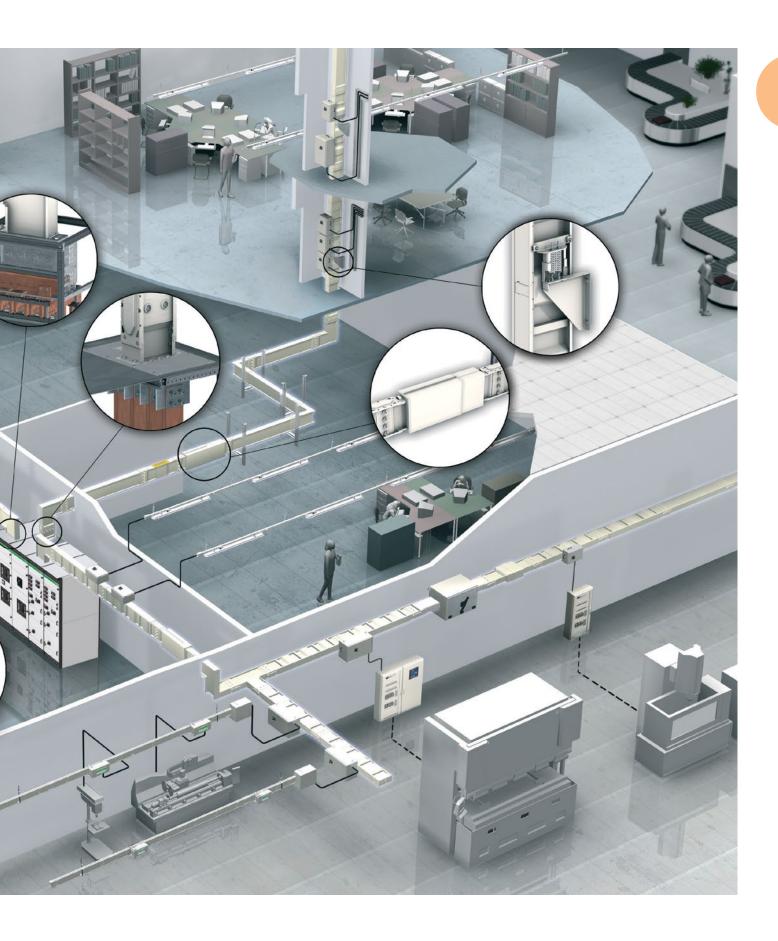


Introduction Canalis®

From the transport to the distribution...

Canalis is the core of your installation





Introduction Canalis KT, a display of advantages

A compact solution



- The compact size of Canalis KT means it takes up very little space in the building:
- > used as a rising main, it takes up only a minimum of space
- > used for horizontal distribution, it fits easily into the building's structure (false floors, false ceilings, service shafts, etc).
- Changes in direction have been designed to optimise the space taken up, contrary to an equivalent installation using cables which requires large bending radii.
- Tap-off units, complete with protective devices, are fitted along the entire length of the busbar trunking thus reducing the floor area taken up by the electrical distribution switchboards.

A simple and economical system



- The design study is easy to perform as it does not require a detailed layout of each load. Equipment choice is predetermined and optimised.
- Installing the busbar trunking requires
 2 or 3 people only, for a time equivalent to that for installing cableways. The time normally needed for laying cables is therefore saved.
- Connection to the MV/LV substation is made using a quick fitting joint block. The tap-off units can be prepared in the workshop thus reducing on-site time. Their connection to the busbar trunking is done in a single plugging-on operation.
- Installing busbar trunking lengths can be done as and when building work progresses, thus optimising on-site work and allowing possible unexpected events to be anticipated in advance.
- It is also important to note that busbar trunking is a factory tested solution, meaning the time needed for inspecting connections is reduced (visual inspection of tightening torque).

Operating continuity

When working on the electrical installation, the busbar trunking provides immediate readability of the electrical circuit thus allowing the appropriate zone to be quickly identified.

Tap-off units can be plugged-on and off without the need for a shutdown; service continuity is thus irreproachable.

Introduction Canalis KT, a display of advantages

Certified installation



- Busbar trunking temperature rise and short-circuit withstand are known and independent of the installation.
 Coordination of the Schneider Electric system results in complete control of the electrical network.
- Installation standards UTE C 15-105 chapter B.6.2 and IEC 60364 chapter 5.523.6 stipulate that above 4 parallel cables, it is preferable to use busbar trunking. Paralleling many cables leads to uneven distribution of currents and the risk of abnormal temperature rise.
- Seismic certification to IEC 60980, Richter scale >7 and MSK 64 severity 9.

- The busbar trunking and tap-off units are designed to guarantee the safety of personnel and equipment:
- >plug-on connections to silver-plated copper bars
- > bolted connections with tightening torque guaranteed by torque nuts
- > foolproof system to avoid the risk of assembly errors
- > IP55 certified splash and dust protection
- > sprinkler resistance test in compliance with Volkswagen specifications (valid only for top-mounted units)
- > access to live parts have IPxxD protection (1 mm wire diameter).

Its metal enclosure and high protection degree protect the busbar trunking from all external aggressions (corrosion, rodents, etc).

A large range of tap-off units

Canalis KS tap-off units are fully compatible with Canalis KT:

- They cover all your requirements:
- > Canalis KS tap-off units: 63 to 630 A
- > Canalis KT tap-off units: 400 to 1250 A.
- They offer circuit breaker or fuse protection.

This offer includes tap-off units that can be fitted with the Transparent Ready system:

- They monitor your installation to avoid overloads, thus ensuring service continuity
- They provide metering to allow accurate management of your electrical distribution network (allocation of costs to each consumer).



Introduction Canalis is adapted for all types of buildings

Key points

Office and hospital buildings

- Fire barrier
- Halogen free
- Small size
- Operating continuity

Shopping centres, airports and exhibition centres

- Halogen free
- Distribution and metering
- Able to be evolved
- Sprinklers

Car industry and industrial buildings

- Operating continuity
- Able to be evolved
- Low voltage dropsNetwork readability

Internet Data Centers

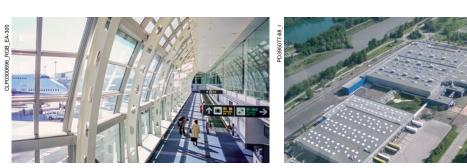
- Operating continuity
- High tap-off density
- Able to be evolved
- Network compactness and readability











Introduction Canalis[®] Solutions

Solution for Data Center

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

Solution for lighting management

• Brochure iBusway for lighting management:

• Catalogue iBusway for lighting management:

• iBusway for lighting management: Canalis DALI technical installation guide

DEBU032EN

DEBU035EN

DESWED112002EN



Low voltage distribut Catalogue | 2016

iBusway for



iBusway for Lighting

anagement







- 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



Schneider



Introduction Canalis, the reference all around the world

Tertiary

| Applications | Name | Lighting current | and low | Medium | current | High current | Country |
|---------------------|----------------------------|---------------------|---------|--------|---------|-----------------|-----------------------|
| | | KBA | KBB | KN | KS | кт | |
| | | | | | | | |
| Offices | | | | | | | |
| | Air France (headquarters) | | | | • | | France |
| 70-Hot Lind | Allianz | | | | • | • | Germany |
| F | Аха | • | | | • | | France |
| | Chamber of Commerce | | | | | • | Luxembourg |
| | Commerz Bank | | • | | • | | Germany |
| A Prover Le Ma | Lexel | | | • | • | | Sweden |
| | Telefónica | | | | | • | Spain |
| | Trade Center | • | | | | • | Spain |
| | Tour du RDC | | | | • | • | Tunisia |
| | Turning Torso | | | | • | | Sweden |
| | Vodafone | | | • | | | New Zealand |
| Internet Data Cente | r | | | | | | |
| | Banco Commercial Português | | | | • | • | Portugal |
| | Colt | | | • | | • | France |
| | Digiplex | | | • | • | | Sweden |
| | IBM | • | | • | • | • | Spain, Italy |
| | MCI-Worldcom | • | | • | • | | Italy, United Kingdor |

Hotels and restaurants



| S | | | | |
|----------------------|--|---|---|---------|
| Hyatt | | | • | Tunisia |
| Mc Donald's | | | | France |
| Soldeo Andorra Hotel | | • | • | Spain |

Hospitals



| Children Clinic | | | • | • | Sweden |
|------------------------------|--|---|---|---|----------------|
| Brussels University Hospital | | | | | Belgium |
| Derby Hospital | | | • | | United Kingdom |
| Oran Hospital | | • | | • | Algeria |
| St Joseph Hospital | | | • | | France |
| Stockholm Hospital | | | • | | Sweden |
| Val de Grâce Hospital | | | • | | France |
| Michalon Hospital | | | • | • | France |
| Manussia Hospital | | | • | | Egypt |

Supermarkets and hypermarkets



| permarkets | | | | | | |
|----------------|---|---|---|---|---|-----------------------------------|
| Alcampo | • | | • | | • | Spain |
| Auchan | • | • | • | • | • | World |
| B&Q | | • | • | • | | United Kingdom |
| Carrefour | • | • | • | • | • | World |
| Соор | • | | • | • | | Italy |
| Fnac | • | | | | • | Spain, France |
| Ikea | • | | • | • | • | China, Spain, France, Sweden |
| Mark & Spencer | • | | | | | Belgium, Spain, United Kingdom |
| Toys'R Us | | | | • | | Spain |

Introduction Canalis, the reference all around the world

Industry

| Car industry | BMW | Current KBA | KBB | KN | KS | Current KT | |
|-------------------------------|-----------------------|----------------|-----|----|----|---------------|----------------------------------|
| Car industry | | | | | | | |
| Car industry | | | | | | | |
| | | | | | | | |
| | | • | • | • | • | | Italy |
| | Citroën | • | • | • | • | • | China, Spain, Franc |
| | Daewo | | | | • | | South Korea |
| | Dacia | • | • | • | • | • | Romania |
| | lveco | • | | • | • | • | Spain, Italy |
| | Peugeot | | • | • | • | • | China, Spain, Franc |
| | Nissan | • | • | • | • | • | Spain |
| A10 | Renault | • | • | • | • | • | Spain, France, Czech Republic |
| | Seat | | | _ | | | Spain |
| | Valéo | • | | | • | • | China, France, Italy Poland |
| | Volkswagen | | • | • | • | | Spain, Germany |
| Other industries | | | | | | | |
| Aerospace industry | | | | | | | |
| | Airbus | • | | | • | • | Italy |
| | | | | | | | |
| Food-processing industry | | | | | | | |
| | Coca-Cola | • | | | | • | Spain, Italy, Belgiur |
| | Danone | • | | | • | • | World |
| | Pasquier | | | • | • | | France |
| | Greenhouse | I | • | | | | Netherlands |
| Ceramic industry | | | | | | | |
| | Esmalglas ceramic | • | • | • | • | • | Spain |
| Electricity | | | | | | | |
| | Legrand | • | | | | | France, Turkey |
| Watch-making | | | | | | | |
| Tracon making | Rolex | • | | | • | • | Switzerland |
| | | | | | | | |
| Microelectronics | | | | | | | |
| | Intel | • | • | • | • | | Irelande |
| | ST Micro-electronique | • | | • | • | • | France |
| | | | | - | | | |
| Lead industry and water tre | | | | | | | |
| | Grundfos | | | | • | | China |
| Inductrial to also also as | | | | | | | |
| Industrial technology | Bosch | • | | | • | 1 | China |
| | | | | | | | |
| T alaashaasa | | | | | | | |
| Telephony | Phillips | | | | • | | Netherlands |
| Telephony | | | | | | | |
| Telephony | Nokia | • | | | • | | Sweden |
| | | • | | | • | | Sweden |
| Telephony Textile industry | | • | | • | • | | Sweden |

Introduction Canalis, the reference all around the world

Infrastructure

| Applications | Name | Lighting current | g and low | Mediun | n current | High current | Country |
|--------------|--------------------|---------------------|-----------|--------|-----------|-----------------|----------------|
| | | KBA | KBB | KN | KS | кт | |
| | | | | | | | |
| Airports | | | | | | | |
| | Paris Airport | • | • | • | • | • | France |
| | Cairo Airport | | | | • | | Egypt |
| (LEASE | Heathrow Airport | | | • | • | • | United Kingdom |
| | Hong-Kong Airport | | | | | • | China |
| | Landvetter Airport | | | | • | | Sweden |
| | | • | | | • | • | Sweden |
| | Satelite Barajas | | | | | • | Spain |

Marine

PD202250_r



| Chantier de l'Atlantique | | • | • | France |
|--------------------------|--|---|---|---------|
| Meyerwerft | | • | • | Germany |
| | | | | |

Undergrounds



| Guanghzou Underground | • | | | | China |
|-----------------------|---|---|--|---|----------------|
| London Underground | | • | | | United Kingdom |
| Madrid Underground | • | | | • | Spain |
| Singapore Underground | | | | • | Singapore |

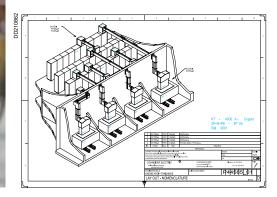
Other infrastructures

| luies | | | | | | |
|-------|---|---|--|---|---|-------------|
| | Alexandria Library | | | • | • | Egypt |
| | Centre international d'exposition de Suzhou | • | | • | | China |
| | CERN | | | • | • | Switzerland |
| | Stade de France | | | • | • | France |

Introduction 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*:

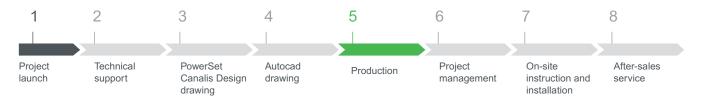
- 3D AutoCAD drawings with corresponding parts lists
- 2D drawing with dimensions
- detailed connection drawings.

*All AutoCADs are available on Traceparts.com BIM Models: are available on se.com.

Site supervision and commissioning assistance.

Training for designers and contractors.

Canalis Busway "Total Solution":



Introduction Canalis tools and services

Empowering you with smart tools



Not only providing experts to support you in your project but also provide you with smart solutions and tools for fully controllable solution.

Through QR codes on packaging, product and JB labellings sticker; customer experience haven't been more easier:

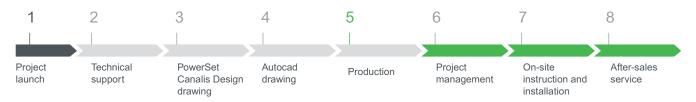
For Installers

- Easily check delivered products and dispatch it at it's future location for faster installation
- More agile access to product and installation instructions
- Easy and remote Installation tasks progression follow up through facility expert
- Can easily access all information needed for future extension.

For Facility Manager

- Resilient management of future installation through easily accessing all product and project data
- Agile maintenance management through assigning tasks on facility experts for certain junctions using QR codes and labeling sticker on JB.

Canalis Busway "Total Solution":



Introduction

Canalis tools and services

Label Sticker

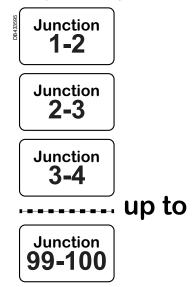
Label Sticker



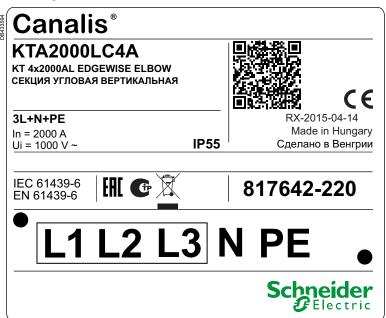
| Description | Cat. no |
|---------------------------------|------------|
| KT JB Positioning Label Sticker | KTB0100YL1 |

Label stickers to be stick on joint blocks in site during installation. It ease maintenance management and maintenance people to detect JB position and assign tasks on facility expert (Optional Choice).

Example of label roll (Size: 15 mm x 25 mm)



Label image



Introduction PowerSet Canalis Design

PowerSet Canalis Design gives you all the help you need

"Schneider Electric offers comprehensive design and costing software." The **PowerSet Canalis Design** software by Schneider Electric was developed to help you design and cost Canalis busbar trunking runs.

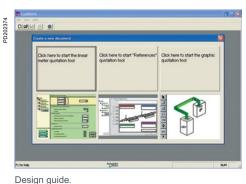
PowerSet Canalis Design, Your comprehensive tool

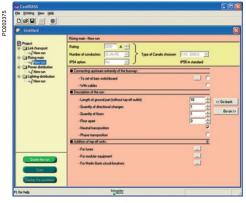
The PowerSet Canalis Design software allows you to quickly design the best layout for your project. It helps you:

- 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.

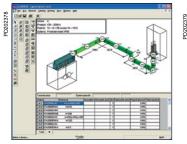




Enter Canalis run characteristics.

Switchboard access estimation of material and labour costs.

Definition of catalogue numbers



Breakdown of the run by product function.

Quote

Graphical costing

| | at of the project (VA) | | | | |
|---|--|---|--------------------|--|--------------|
| unont price list | | net includedy | • | | |
| | | | | | |
| | A-9 | 3425 - 16 + N + | PE and/or To + PEX | | |
| tial Net amou | at of the run - 0,00 | | | | |
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| | | | | | |
| | | | | | |
| | | Balainanca | that and the order | Podect discount | Total out a |
| ly Description | Clemen's length | Reference | Unit public price | Project discount | Total net p |
| 1 | 1+11(2) a=500 a=260 | KTASEL41 | | 0.0% | (Total out y |
| 1 | | NTACHELAI MTACHELAI | _ | 0.0% | (Total out y |
| 1 | 1*15/23 e*500 **260 1+2140 | *1436641 *14351420 | _ | 0.0% | (Total very |
| 1 | 175523 er500 vr262 142140 | 214286481 2142521430 214262481 | _ | 0.0% | (Total out y |
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Presentation and description

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| | |

Panorama of Canalis range

Lighting distribution

Canalis KTA

Low & medium Power Solutions

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

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

Power distribution from 40 to 160 A IP55

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

Horizontal and vertical distribution from 100 to 1000 A IP55

| P55 |
|-----|
|-----|

| Rated service current | | | | Color | | |
|--------------------------|---------|---------|-------|-----------------|--|--|
| Inc | | lpk | Ui | | | |
| ĸs | | | | | | |
| Aluminium: | Copper: | | 690 V | Pre-lacquered | | |
| 100 A | | 15.7 kA | | white (RAL9001) | | |
| 160 A | 160 A | 22 kA | | | | |
| 250 A | 250 A | 28 kA | | | | |
| 400 A | 400 A | 49.2 kA | | | | |
| 500 A | | 55 kA | | | | |
| 630 A | 630 A | 67.5 kA | | | | |
| 800 A | 800 A | 78.7 kA | | | | |
| 1000 A | | 78.7 kA | | | | |







| Line comp | onents | 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 | > Flexible components > Fixing devices with quick adjustment > Communication bus (DALI, ASI) > Cable ducts |
| | | | | | |
| 2 m and 3 m | Single circuit 2 or $4 + PE$ Dual circuit 2 + 2 + PE 2 + 4 + PE 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 | > Flexible components > Fixing devices with quick adjustment > Communication bus (DALI, ASI) > Cable ducts |

| 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 | > Flexible components > Fixing devices with quick adjustment > Remote control bus > Cable ducts > Installation accessories |

| 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 | > Riser ducting offer > Fixing devices with quick adjustment > Cable ducts > Installation accessories > Fire barriers |

Panorama of Canalis range

Power distribution

Canalis KTA

High Power Solutions

Power transmission and distribution from 800 to 6300 A IP55

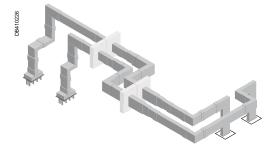
| Rated service current | | Permissible rated peak current | | Rated insulation voltage | Color |
|--------------------------|---------|--------------------------------------|-----------|--------------------------------|-----------------|
| Inc Ipk | | | Ui | | |
| KT * | | | | | |
| Aluminium: | Copper: | Standard: | Optional: | 1000 V | Pre-lacquered |
| 800 A | - | 64 kA | 73 kA | | white (RAL9001) |
| 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 se.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 | lpk | | 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 se.com or catalogue ref. DEBU031EN



| Line components | | Branching points | | | Accessories | |
|-------------------------|--|------------------------------|--|--|---|--|
| Length of components | Number of conductors | Center to center distance | | Protection type | | |
| 2 m and 4 m | 3P + PE 3P + N + PE 3P + N + PER | 0.5 m or 1 m | 25 A to 630 A (plug-in) 400 A to 1250 A (bolt-on) | Units for circuit breakers (modular, Compact NSX), fuses, sockets | Power supply ends Direction change angles and T-pieces Fixing devices and fuses | |

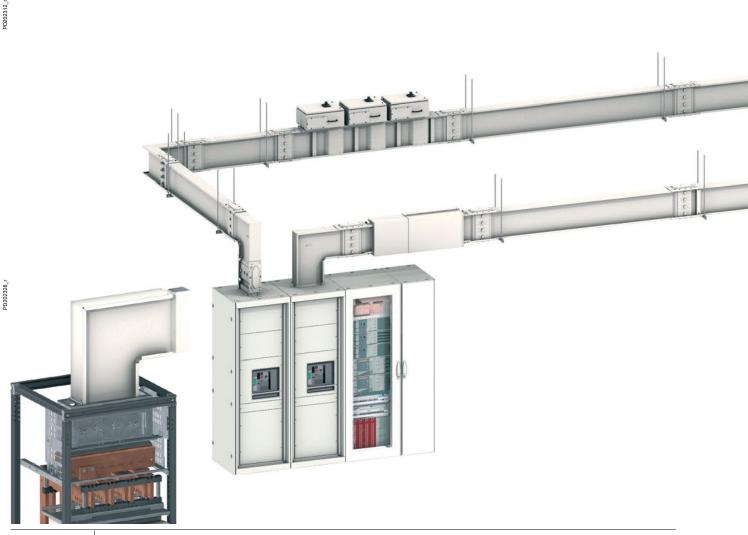
| Line compo | onents | Branching points | | Accessories | |
|-------------------------|--|------------------------------|---|-----------------|--|
| Length of components | Number of conductors | Center to center distance | | Protection type | |
| | | | | | |
| Up to 3 m | 3L 3L + N or 3L + PE or 3L + PEN 3L + N + PE | - | - | - | Power supply ends Direction change angles and T-pieces Fixing devices Fire resistant elements |

Canalis KTA from 800 to 5000 A

For horizontal transport and distribution

Canalis KTA

Run sections Tap-off units Change-of-direction sections Rating: 800 to 5000 A. Transport sections: Plug-in tap-off units: Change-of-direction sections adapt to all □ protection by 25 to 630 A fuses busbar trunking requirements. □ fixed lengths: 2 and 4 meters □ non-standard lengths: 0.5 and 3 meters □ protection by 100 to 630 A Compact NSX ■ There are both fixed and made-tocircuit breakers. measure lengths. Distribution sections: Fixed tap-off units: □ protection by 400 to 1250 A Compact NS □ fixed lengths: 2 and 4 meters. and NSX circuit breakers □ protection by 400 to 1000 A fuses. PD202314_r2 PD202315_r PD202313_1



28 Life Is On Schneider

Interface connections

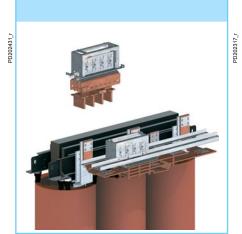
- Pre-fabricated interfaces connections can be incorporated into:
- Prisma P and Okken switchboards
 France Transfo dry-type transformers.

Universal supply connections

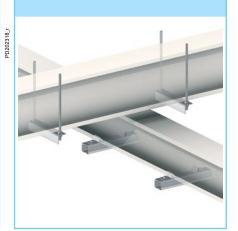
■ Supply connections allow the busbar trunking to be connected to the switchboard's busbar or to the transformer.

Horizontal fixing supports

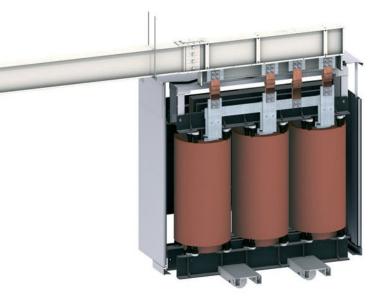
 There are two types of support for installing the busbar trunking horizontally.
 One type of fixing: to fix the busbar trunking to its support.

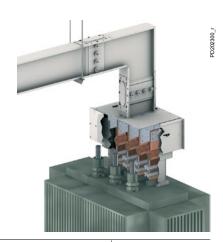












Canalis KTA from 800 to 5000 A

For distribution to different levels Rising mains

Canalis KTA



Tap-off units from 25 to 1250 A

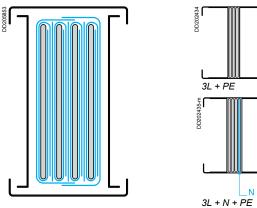
| Rating (A) | Type of protection | | | |
|-----------------------------------|-------------------------------|---|---|---|
| | Modular switchgear | Compact NS and NSX | Fuses | Compact NSX with measurement and metering |
| Plug-on tap-off u | nits | | | measurement and metering |
| 25 to 100 | 63 A, 8 x 18 mm modules | For Compact NSX100 circuit breaker | 25/50 A for NF/DIN fuses 32 A for BS fuses 63 A for DIN fuses 100 A for NF/DIN fuses | |
| 160 | For NG125/160 circuit breaker | For Compact NSX160 circuit breaker | 80 A for BS fuses | |
| 250 to 400 | | For Compact NSX250 circuit breaker | 250/400 A for NF/DIN fuses | Fitted with DIN rail for Powerlogic PM810 For Compact NSX250 circuit breake |
| 630 | | For Compact NSX630 circuit breaker | 630 A for NF/DIN fuses | |
| Fixed tap-off unit 400 and 630 | ts | Company Review | | |
| | | For Compact NSX400 and NSX630 circuit breakers | 400 to 630 A for DIN fuses ⁽¹⁾ | |
| 800, 1000 and 1250 | | For Compact NS800, NS1000 and | 800 to 1000 A for DIN fuses ⁽¹⁾ | |
| | | NS1250 ⁽¹⁾ circuit breakers | | |

General

Canalis KTA

The Canalis KT busbar trunking is intended for high power distribution and transport in industrial, commercial and tertiary buildings. Assembly of prefabricated sections that adapt to all run configurations.

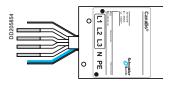
Run sections



PEB

3L + N + PER

The conductors are sandwiched together inside the metal casing.





- 4 aluminium live conductors with identical cross-sections (3L + N + PE version).
- Conductors insulated using polyester film, class B 130°C, halogen free.
- Standard busbar trunking is IP55.
- Insulation voltage: 1000 Volts.
- Available polarities: 3L + PE, 3L + N +PE, 3L + N + PER (reinforced PE)

The KT busbar trunking is of compact design and can be installed edgewise, flat or vertically

This design, allows the busbar trunking to be installed through a floor slab or fire barrier wall.

As standard, the Canalis KT busbar trunking acts as a fire barrier in accordance with IEC 61439-6.

The compact technology allows Canalis KT busbar trunking to withstand high short-circuit currents and is suitable for most electricity distribution applications.

The RAL 9001 pre-lacquered galvanized steel casing provides protection and mechanical fixing of the conductors.

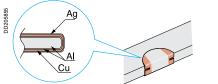
Further, it is used as the PE protective conductor (in accordance with NFC 15100 and IEC 60364).

In its reinforced version 3L + N + PER, the busbar trunking is fitted with an additional internal conductor with a cross-section equal to half that of the phase conductor.

A reinforced version can be supplied on demand. This version has lateral reinforcement (see page "Characteristics").

The Canalis KT busbar trunking is suitable for applications containing harmonics by taking into account the appropriate derating factor. See "Harmonic currents" in the Design guide.

Tap-off contact

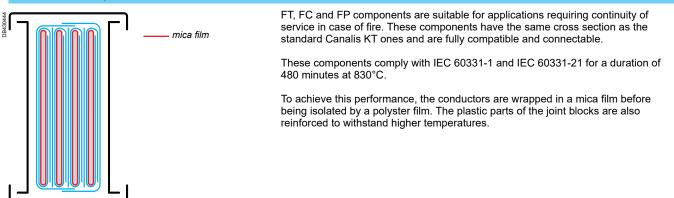


The KS plug-on tap-off units are connected to the busbar trunking whilst live (offload) via spring jaw connections.

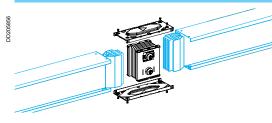
- Contact zone coating:
- silver-plated copper at jaw contact points
- aluminium / silver-plated copper bimetallic saddle welded to the live conductors.

The electrical contact pads of the sections are made from bonded bimetallic aluminium/copper.

Fire rated components



Joint block





The junction between sections is made using a joint block.

The joint block provides the following:

electrical junction between live conductors and between PE protective conductors, mechanical link between the two sections.

It provides simultaneous continuity between all conductors.

It is tightened using torque bolt(s) (1 to 4 depending on the rating) with snap-off heads.

The nut head snaps-off, freeing a red washer, when the correct tightening torque is reached.

This operation is checked visually:

if the red washer is absent: it has been tightened

■ if the red washer is visible: it has not been tightened.

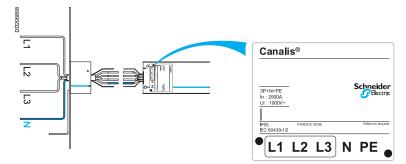
This device guarantees the necessary contact pressure between live conductors and is operator independent.

For dismantling or maintenance operations, the nut has a second head. The tightening torque is 6 daN.m.

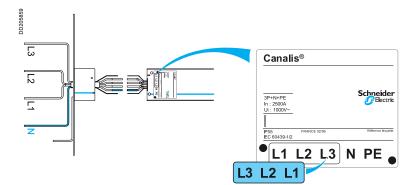
All sections (apart from ER and EL feed units) are supplied with their joint block, delivered in a separate parcel. If the run has a feed unit (ER or EL) at each end, an additional joint block must be ordered.

Phase order

The standard phase order for the busbar trunking is denoted N321.



However, this order can be changed to **N123**. A label showing the phase order "N123" is supplied with each element to indicate the change.



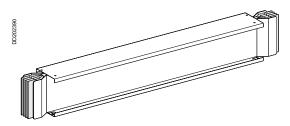
Run sections

Canalis KTA

Straight sections

Transport sections - Type ET Transport the current without tap-off points.

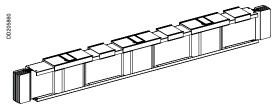
Available in 2 and 4 metre fixed lengths or made to measure from 0.50 to 3 metres.



Sections with tap-off points for plug-on tap-off units -Type ED ED run sections are for current distribution.

They use 25 to 630 A KS tap-off units.

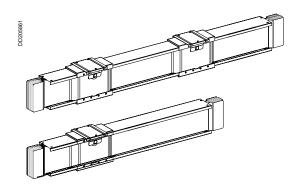
These tap-off units can be plugged-on whilst live, but off-load. Available in fixed 2 and 4 metre lengths with 3 tap-off points on one side or made to measure from 2.5 to 3.5 metre.



Sections with tap-off points for fixed tap-off units - Type EB EB run sections are for current distribution.

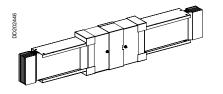
They use specific KT 400 to 1250 A tap-off units.

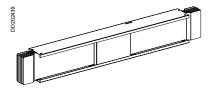
These tap-off units can only be fitted / removed when the run is not energised. Available in a 2 metre fixed length with one tap-off point or a 4 metre fixed length with 2 tap-off points.



Other run sections Disconnectors and run protective devices

Other run sections





Expansion section - Type DB

It controls and absorbs the expansion of Canalis runs and must be used on runs over 30 metres and each time the busbar trunking passes through a building expansion joint.

Refer to the installation guide.

Available in a 1 metre length, it can be fitted vertically or horizontally. At its centre it has flexible conductor joints and a sliding case able to absorb the relative movements of each part of the section.

Transposition sections - Types TN, TP

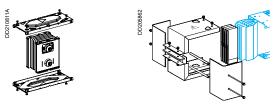
Used when the phase order of the switchboard is different to that of the transformer.

Available in a 1 metre length and is the same physical size as a transport section. The TN version transposes the neutral.



The TP type transposes the phases.





Additional joint block - Type YA

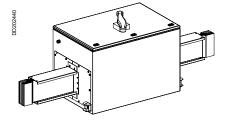
If the run has a feed unit (supplied without a joint block) at each end, an additional joint block must be ordered.

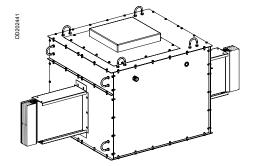
Each joint block is supplied with the necessary covers, nuts and bolts.

Run end cover - Type FA

The end cover protects and insulates the conductor ends and is fitted to the last section.

Disconnectors and run protective devices





Fitted between 2 flat or edgewise sections, they isolate or protect a busbar trunking part run.

Each assembly is supplied fitted with a 3 or 4-pole device complete with rotary handle.

Supplied with:

an auxiliary connection terminal

- lifting rings
- upstream and downstream terminal shields.

Colour: white RAL 9001, 100 % polyester paint on galvanized sheet steel.

Refer to manufacturer's data for switchgear characteristics. Fitted with a rotary handle, the tap-off unit can only be opened once the device

has been switched off.

Run disconnector tap-off units - Type SL

Type SL for:

- Compact NS1000 to 1600 A type NA fixed isolators:
- □ unhingeable door
- 3-point closing (possibility of locking with key lock, not supplied)
 Interpact INV isolator, 2000 to 2500 A:
- □ unhingeable door
- □ 3-point closing (possibility of locking with key lock, not supplied)
- Masterpact NW3200 A type HA fixed isolator supplied with:
- transparent protection cover
- □ adaptation kit for Ronis lock + 1 Ronis lock
- □ complete Harting plug, not cabled.

Run protection tap-off units - Type PL Type PL for:

- Compact NS1000 to 1600 A type N fixed circuit-breakers:
- □ unhingeable door
- □ 3-point closing (possibility of locking with key lock, not supplied).
- For circuit-breakers greater than 1600 A, consult the sales office.

Change of direction sections

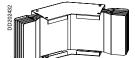
Canalis KTA

Simple changes of direction

Elbows - Types LP and LC To go up or down, to turn right or left: ■ type LP, flat elbow available in fixed or made-to-measure lengths



■ type LP•C, flat made-to-measure angled elbow



■ type LC, edgewise elbow available in fixed or made-to-measure lengths

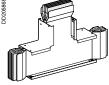


■ type LCoC, edgewise made-to-measure angled elbow.



Edgewise T junctions - Type TC To feed runs perpendicular to the main run.



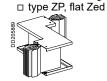


Changes of direction

Zeds - Types ZP, ZC and CP

3-branch made-to-measure:

If at or edgewise, to move the run axis upwards, downwards, to the right or to the left without having to bend the busbar trunking:



□ type ZC, edgewise Zed



edgewise / flat, to provide the busbar trunking with a bend: □ Type CP, edgewise and/or flat Zed.



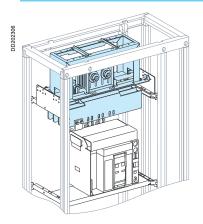
Connection sections

To connect the KTA busbar trunking to different terminals or to transformer, switchboard, generator set, etc. busbars. Canalis offers high performance connection sections which meet all requirements.

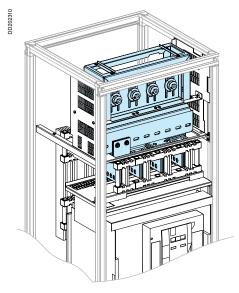
These sections provide installation flexibility combined with quick and simple assembly.

Further, the connections are made using torque bolts which provide both ease of installation (use of a standard spanner for tightening to 60 N.m) and a visual check before energising.

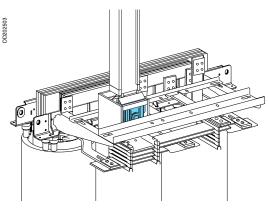
Connections via interface to Prisma P, Okken and Trihal



Prisma P switchboard.



Okken switchboard.



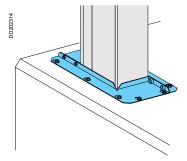
Direct connection to Trihal transformers and Prisma P & Okken switchboards. Supplied factory or panelbuilder assembled and tested to IEC 61439-1 and IEC 61439-6.

Quick and simple connection of the busbar trunking to the interface.

Reduced size.

Joint block integrated into the interface.

A sealing kit (rating dependent) must be ordered.



Sealing kit

Prisma P and Okken switchboards

For fixed or draw-out incoming device, front or rear connection:

- Masterpact NW08 to NW40 or NT06 to NT16 circuit-breaker
- Compact NS630b to NS1600 circuit-breaker.

Possibility of switching the phases around.

France Transfo Trihal dry type transformers

For naturally ventilated or force ventilated transformers.

Protection degree:

- IP00 ■ IP31.
-

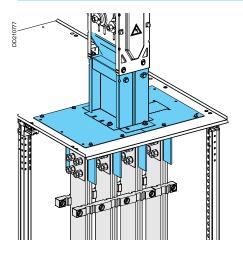
Secondary voltage: 410 V.

±15 mm adjustment in the 3 axes.

Connection sections

Canalis KTA

Universal connections to switchboards and oil immersed transformers

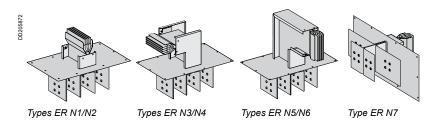


Feed units - Type ER They allow the busbar trunking to be connected to a switchboard's busbar, or to the terminals of an oil immersed transformer, generator set, etc.

They come complete with a mounting plate fitted: ■ either directly to the roof of the switchboard

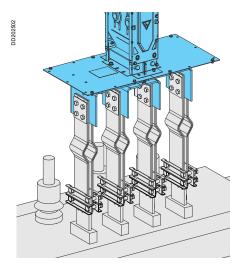
- or via the intermediary of a protective cover.

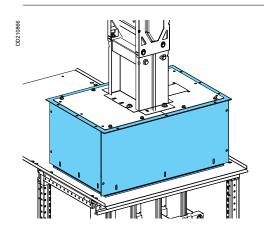
Vertical or horizontal incoming busbar trunking.



Connection:

- either directly to the busbar or by flexible bars and connection plates
- or by braids
 or by cables.
- ER feed units are supplied without a joint block.
- If the run has a feed unit at each end, an additional joint block must be ordered.

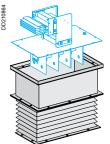




Protective covers - Types CS, CR, BC Protects the external part of the connection.

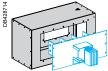
■ Type CS

Height adaptable flexible protective cover adaptable for ER N1 to N6 feed units with a between centres distance of 115 mm.

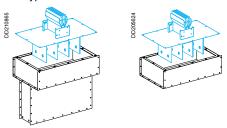


For a vertical incomer - Types CR1 to CR3 Made-to-measure rigid protective cover for ER N1 to N7 feed units. They are height adjustable by ± 50 mm.

Type CR1 for a horizontal incomer.



■ Types CR2 and CR3 for a vertical incomer.

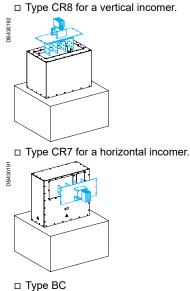


Types CR7 and CR8

Protective covers for Minera oil immersed transformers. Only for ER N1 to N6 feed units with a between centres distance of 150 or 170 mm depending on the rating.

Fit directly onto the BT series transformer tanks.

Never use with HV porcelaine bushings.

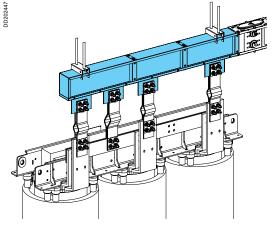


Protective cover for direct cable connection to ER N1 to N6 feed units with a between centres distance of 115 mm.

Connection sections

Canalis KTA

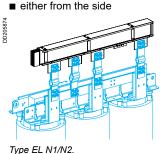
Universal connections to dry type transformers



Feed units - Type EL

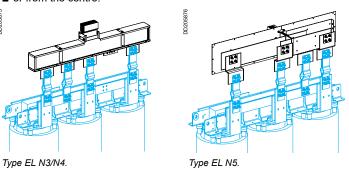
For dry type transformers with the neutral between the phases. They allow optimum connection to the busbar trunking.

The junction with the busbar trunking is achieved:



or from the centre.

3D205875



They are of similar design to straight transport sections and can be installed edgewise or flat.

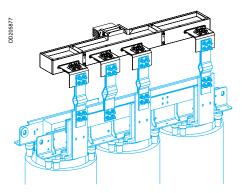
If installed flat, a set of angle brackets can be ordered.

The following must be specified at the time of order:

phase order

■ distance between phases (a ±20 mm lateral adjustment can be made use of on site).

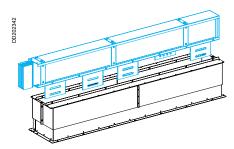
The link between the transformer terminals and the connection section is either by flexible bar connection plates or by braids.



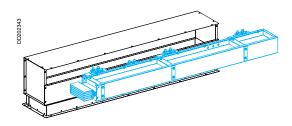
Protective covers - Type CR4 to CR6 These protect the connections with an IP31 casing when connecting to a transformer.

They are height adjustable by ±50 mm.

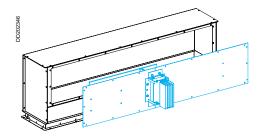
■ Type CR4 Protective cover for EL N1 to N4 feed units. Edgewise assembly.



Type CR5 Protective cover for EL N1 to N4 feed units. Flat assembly.



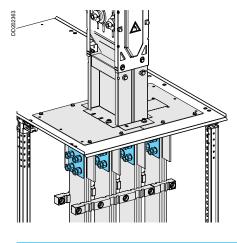
Type CR6
 Protective cover for EL N5 feed unit.
 Edgewise assembly.



Connection accessories

Canalis KTA

Accessories for direct connection to the switchboard



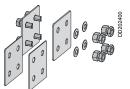
The conductors of ER N1 to N6 feed units are connected directly to the switchboard busbars.

YB2 copper spacers are available to compensate differences in thickness between the switchboard bars (10 mm) and the connection part (6 mm).

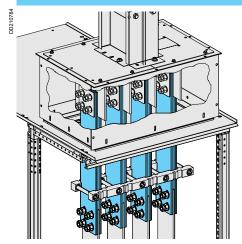
Make-up of kit:

- 8 x 2 mm thick copper spacers
- 16 off M12 x 60 mm bolts, class 8.8
- 16 contact washers
- 16 torque nuts
- 8 steel spacer plates.

Order a set per feed unit whatever the rating.



Switchboard connection accessories using connection plates



The conductors of ER N1 to N6 feed units are connected via connection plates to the switchboard busbars.

The YC are flexible bars made up of 5 copper sheets of 1 x 100/120 mm or of 5 bimetal aluminium/copper sheets $1.4 \times 100/120$ mm. The number of connection plates needed is proportional to the busbar trunking

rating.

There are 2 types:

■ YC1, uninsulated bar, made-to-measure length of 250 to 600 mm with 4 oblong holes at the ER unit end.

The holes at the opposite side are made to measure to match with the switchboard connections.



■ YC5, insulated 600 or 1000 mm long flexible bar, stripped at one end and with 4 oblong holes.

The length of the holes at the switchboard side are to be adapted on-site.



Nuts and bolts

The connection plates are fixed to the feed unit using the YB3 nut and bolt kit, made up of:

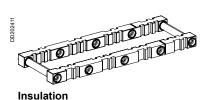
- 16 off M12 x 60 mm bolts, class 8.8
- 16 contact washers
- 16 torque nuts



■ 8 steel spacer plates.

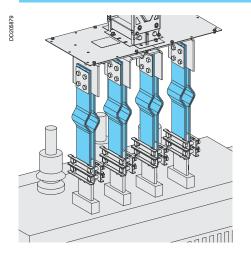
Clamps

YS1 clamps enable high short-circuit current levels to be withstood; only for bars with a 115 mm spacing.



Insulation See page 43.

Transformer connections - Types YC, YT



The feed unit conductors are connected to the transformer bars via connection plates or braids:

- the YC are flexible bars made up of 5 copper sheets 1 x 100/120 mm or
- of 5 bimetal aluminium/copper sheets 1.4 x 100/120 mm.
- braids, YT type, are copper braids with a 600 mm² cross-section.

The number of connection plates needed is proportional to the busbar trunking rating.

Connection plates

The YC3 is an uninsulated bar with an expansion kink; it is 250 to 600 mm long and has 4 holes at the ER unit end.

The holes at the opposite side are made-to-measure to match with the transformer connections.

They can be fitted to the transformer side:

- either using bar clamps (no drilling),
- or drilled and bolted (to be carried out on site).

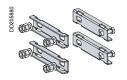


 $\mathsf{YS2}$ and $\mathsf{YS3}$ bar clamps enable connection without the need to drill the connection plates.

They allow height adjustment.

- Type YS2, bar clamps for 100 mm transformer connection terminals.
- Type YS3, bar clamps for 120 mm transformer connection terminals.

Make-up of kit: 1 set of 8 parts.



Braids

Type YT, 400 mm long insulated braid with 4 holes at each end.



The connection plates and braids are fixed to the feed unit using the YB4 nut and bolt kit, made up of:

- 16 off M12 x 80 mm bolts, class 8.8
- 16 contact washers
- 16 torque nuts
- 8 steel spacer plates.

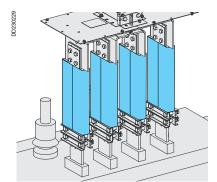
Insulation

The YF conduit allows the various conductors of a connection performed with braids or with bare copper foils to be insulated.

Installation is performed after complete assembly of the connection, with scratch fastening for easier setup.

The insulating conduit is formed of a 2-metre plastic duct that can be cut to length as needed.

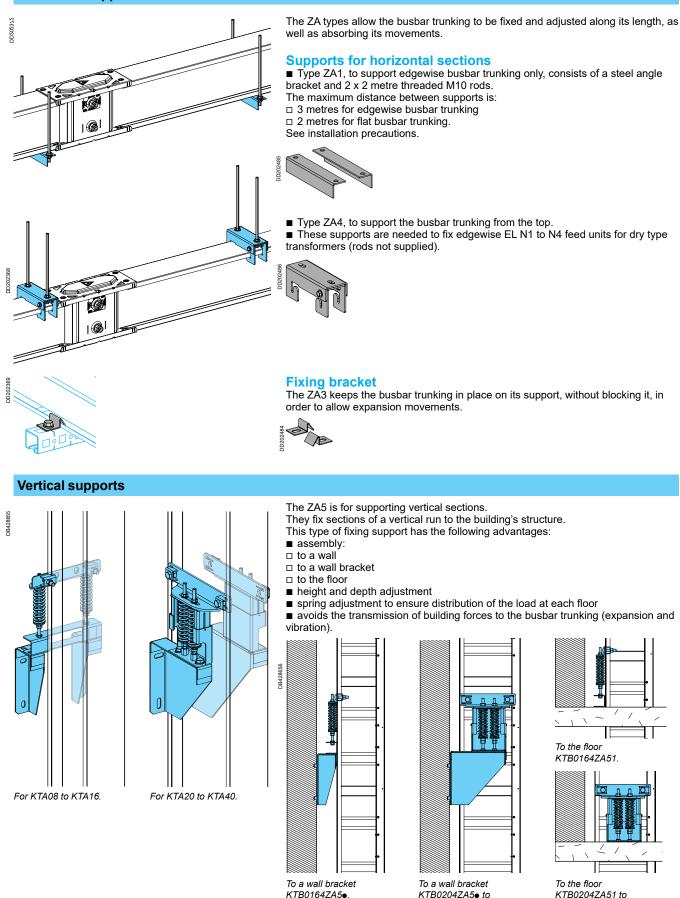




Supports and fixings

Canalis KTA

Horizontal supports



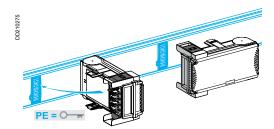
KTB0404ZA5

KTB0404ZA51.

Tap-off units

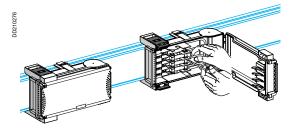
The tap-off units are used to instantly connect loads or secondary runs, and comply with installation standards and regulations (IEC 60364), whatever the earthing system (TT, TNS, TNC or IT).

When off-load, they can be plugged-on and off and be operated whilst live. Plugging-on and plugging-off automatically opens and closes the tap-off point.



No live part is accessible with the door open. The protection degree is IPXXB (finger protection).

They are IP55 by construction (no accessory is required).



Safety and operation

Fuse and modular switchgear tap-off units (AC20) are isolated as soon as the tapoff unit door is opened.

Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

For circuit breaker tap-off units, there are safety mechanisms to prevent:

■ the tap-off unit being plugged-on and plugged-off with the tap-off unit door closed ■ the door being closed if the tap-off unit has not been locked onto the busbar trunking

 access to the electrical equipment and connection terminals when live
 the door being opened in the "ON" position for tap-off units fitted with a Compact NS or NSX or NG circuit breaker.

These tap-off units can be fitted with accessories such as:

- door early break contacts
- adapter for lead sealing
- etc.

The sheet steel tap-off units are fitted with a carrying handle.

Characteristics of tap-off units up to 100 A

- Colour:
- □ white (RAL 9001) body and carrying handles
- □ transparent green door (similar design to the Kaedra enclosures).

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.

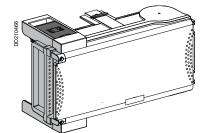
Characteristics of tap-off units from 160 to 400 A

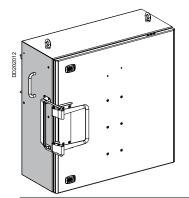
Colour:

- □ white (RAL 9001) body
- □ black carrying handles (RAL 9005)
- □ 100 % polyester paint
- Material: galvanized sheet steel.

Other characteristics:

- unhingeable door (120° opening hinges)
- vertically bevelled polyurethane seals with a double fold for increased rigidity
- (similar design to the Sarel Spatial 3D enclosures)
- 25 mm grill type gland plates for a maximum access area.



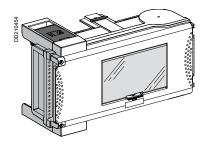


Plug-on tap-off units for circuit breakers

Canalis KTA

10000

101 CUC



F F



Most 18 mm Multi 9 modular devices can be fitted into these tap-off units. They have a window on the front face for switchgear control and visualisation.

A transparent shutter ensures the window can be sealed.

- Two tap-off ratings are available:
- 63 A nominal current for 8 modules
- 100 A nominal current for 12 modules (accepts C120 circuit breakers).

Tap-off units for NG type modular switchgear These tap-off units are fitted with a DIN rail and upstream connections for 18 mm wide modular devices.

The switchgear is operated via a rotary handle which prevents door opening when the circuit breaker is in the "ON" position.

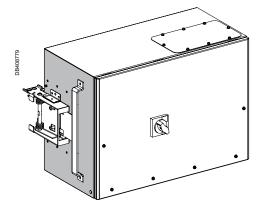
Nominal current: 160 A for a 13-module capacity (accepts NG125 or NG160 fitted with a Vigi unit).

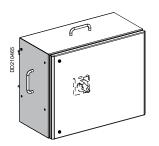
Isolator tap-off units for Compact NSX circuit breakers

These tap-off units are fitted with mounting plates and upstream connections for fixed, front-connected 100 to 630 A Compact NSX circuit breakers (N, H or L version) with a rotary handle.

The 400 A tap-off units can only be fitted onto straight lengths with a rating greater than 400 A.

For plug-on circuit breakers, Vigi units, etc, please consult your Schneider Electric contact.





Measurement and metering isolator tap-off units

These tap-off units allow sub-metering to re-allocate power consumption costs by consumer and to monitor installations by, for example, following run load levels. The values measured using the Compact NSX TI unit are sent to the measurement unit which then sends the information to a central unit via a bus (see Measurement and metering).

They are fitted with:

a mounting plate for a Compact NSX250 or 400 A circuit breaker with an extended rotary handle and a Compact NSX current transformer module (TI unit) a DIN rail for installing a Powerlogic PM810 measurement unit, a set of terminals, etc.

In severe operating conditions (> 40 °C ambient temperature), we recommend the use of a PM810 without display.

Plug-on tap-off units for fuses

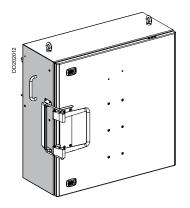
These tap-off units provide the tap-offs with fuse protection (fuses not supplied).

- Plastic tap-off units Fitted with carriers for: 50 to 100 A cylindrical NF fuses 25 to 63 A DIN screwed fuses
- 100 A DIN blade fuses
- 32 to 80 A BS screwed fuses.

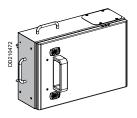
Steel tap-off units Fitted with carriers for:

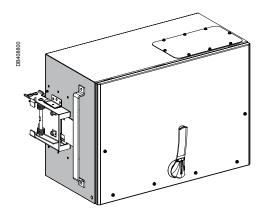
- 160 to 400 A NF/DIN blade fuses
- 160 A BS screwed fuses





D21046





Canalis KTA

DD202451

Fixed tap-off units for circuit breakers

Safety and operation

The electrical connection is made by plugging-on the tap-off unit into dedicated tapoff point whilst the busbar trunking is de-energised (plugging-off the unit must also be done with the busbar trunking de-energised).

The connection is mechanically tightened using a one-use torque bolt (10 daN.m). A mechanical foolproof system avoids the risk of incorrect assembly.

The door can only be opened once the load has been isolated (rotary handle).

The bolt can only be tightened or untightened with the door open.

No live part is accessible with the door open, protection degree IP2X.

Characteristics of tap-off units from 400 to 1250 A

- Colour:
- □ white (RAL 9001) body
- Material: galvanized sheet steel.
- Other characteristics:

□ the cables exit laterally through 2 aluminium plates (to be drilled by the installation contractor)

□ cabling space can be increased by using the cable box supplied with the tap-off unit

 $\hfill\square$ the door is fixed using 6 captive M6 screws and can be completely removed to facilitate cabling.

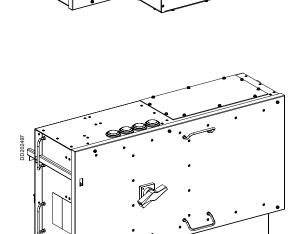
Steel tap-off units

These tap-off units are used to supply loads or secondary runs (e.g. medium power distribution using Canalis KS).

They are fitted to specific EB type straight lengths.

They comply with installation standards and regulations, whatever the earthing system (TT, IT, TNS or TNC):

- tap-off units fitted with a mounting plate for Compact NS and NSX 400/1250 A,
- 3 or 4 P.
- □ fixed device
- □ front connections
- extended rotary handle.
- 3 models:
- Compact NSX400/630 A, connection capacity:
- □ 3 x 300 mm² cables for the phases and neutral (hole diameter = 15 mm)
- □ 150 mm² for the PE
- Compact NS800/1000 A, connection capacity:
- □ IP54
- □ 4 x 300 mm² cables for the phases and neutral (hole diameter = 15 mm)
- □ 200 mm² for the PE (cable clamp)
- Compact NS1250 A, connection capacity:
- □ IP31
- \square 4 x 300 mm² cables for the phases and neutral (hole diameter = 15 mm) \square 200 mm² for the PE (cable clamp).



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Catalogue numbers and dimensions

Catalogue-number coding

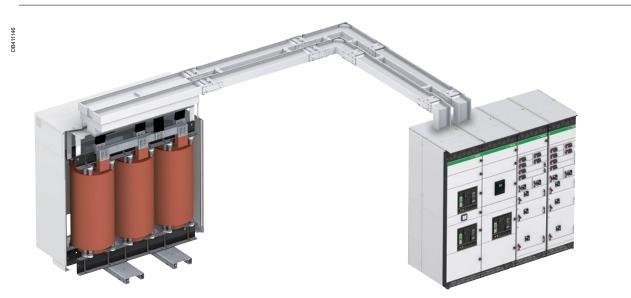
Canalis KTA

| Catalogue-number comp | | | | | | | | |
|---|-----------|--|---------------------------------------|---|--|---|--------------------|---|
| One letter designating the mate | erial. | | K T e | | | • | | |
| Type Aluminium | | Code A | | | | ● ● | | ┛╷ |
| Non conducting | | B | | | | | | |
| Copper | | C | Four digits in | ndicating | | | | |
| Two letters identifying the type of | of compon | ent. | the rating of th | | | | | |
| Туре | | Code | | an 800 A rating, | | | | |
| Cable box | | BC | indicate "KTA0 | 800". | | | | |
| Bolted tap-off unit Fire-barrier | | CB CF | | | | | | |
| Edgewise and flat zed | | CP | | | | | | |
| Rigid protective cover | | CR | | | | | | |
| Flexible protective cover Expansion unit | | CS DB | | | | | | |
| Tap-off unit for Compact NSX | | DC | One digit inc | licating the trunki | | | | |
| Distribution length for bolt-on tap-off uni | | EB | ■ One digit ind polarity | licating the trunki | iy 🖣 | | | |
| Distribution length for plug-in tap-off uni Distribution length for KH plug-in tap-off | | ED EH | , , | | | | | |
| Feed unit for dry-type transformers | i unito | EL | Polarity | PE protective | Short circuit | Code | | |
| Feed unit | | ER | | conductor ⁽¹⁾ | | | | |
| Feeder length End cover | | FA | 3L + PE | Standard | Standard ⁽²⁾ | 3 | | |
| Bolted tap-off unit for fuses | | HF | 3L + N + PE | Standard | Standard | 4 | | |
| Connection KH/KT | | HT | 3L + N + PE | Standard | Reinforced | 6 ⁽³⁾ | | |
| Edgewise elbow | | LC | 3L + N + PER | In aluminium | Standard | 5 | | |
| Flat elbow PER for Prisma P and Okken interfaces | 5 | LP PE | 3L + N + PER | In copper | Reinforced | 7 | | |
| Tap-off unit with protective device | | PL | | formation, see page | | | | |
| Tap-off unit with fuse disconnectors | | SD | (2) Reinforced ve | ersion in 2000 and 2 | 500 A. | | | |
| Tap-off unit with switch-disconnector Tap-off unit with isolator | | SE SL/RL | (3) Reinforced ve | ersion in 2500 and 3 | 200 A only. | | | |
| Edgewise tee | | TC | Variable nun | nber of alphanum | eric | | | |
| Neutral crossover | | TN | characters indi | cating characteris | tics | | | |
| Phase crossover | | TP TT | specific to the | | | | | |
| Sealing kit Connection device | | YA | | n dealing with the | given | | | |
| Connection torque nut kit | | YB | component. | | | | | |
| Flexible bar | | YC | | | | | | |
| Bracket Insulating sheath | | YE YF | Fire rated co | mponents. | | | | |
| Connection plate | | YP | Туре | • | C | ode | | |
| Bar supports | | YS | Fire rated straigh | t feeder length | FT | | | |
| Braids | | YT | Fire rated edgew | ise elbow | FC | • | | |
| | | | | | | | | |
| Supports and fixing devices | | ZA | Fire rated flat elb | | FP | | | |
| | | | | | | | | |
| Supports and fixing devices Edgewise zed | | ZA ZC | | | | | | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) | 800 | ZA ZC | Fire rated flat elb | ow 00 2000 | 2500 | 3200 | 4000 | 5000 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 | 3200 4 | 4 | 4 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | | ZA ZC ZP | Fire rated flat elb 1250 16 1 2 | ow 00 2000 | 2500 2 | 3200 | | 4 4 x (120 x 6) |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 | 3200 4 | 4 | 4 4 x (120 x 6) |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 | 3200 4 | 4 | 4 4 x (120 x 6) |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 | 3200 4 | 4 | 4 4 x (120 x 6) 60502180 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 | 3200 4 | 4 2 x (200 x 6) | 4 4 x (120 x 6) |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 2 x (120 x 6) | 3200 4 2x(160 x 6) | 4 | 4 4x(120x6) 621 621 621 621 621 621 621 621 621 621 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 70x6 | ZA ZC ZP 1000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 | 3200 4 | 4 2 x (200 x 6) | 4 4 x (120 x 6) 60502180 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 | ZA ZC ZP 1000 1 | Fire rated flat elb 1250 16 1 2 | ow 00 2000 2 | 2500 2 2 x (120 x 6) | 3200 4 2x(160 x 6) | 4 2 x (200 x 6) | 4 4x(120x6) 621 621 621 621 621 621 621 621 621 621 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2x(160 x 6) | 4 2 x (200 x 6) | 4 4x(120x6) 621 621 621 621 621 621 621 621 621 621 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) | 1 70x6 | ZA ZC ZP 1000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 (120 x 6) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 4 4 (120 x 6) 75 130 75 130 75 75 75 75 75 75 75 75 75 75 75 75 75 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 (120 x 6) 140 130 52 52 52 52 52 52 52 52 52 52 52 52 52 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 4 4 (120 x 6) 75 130 75 130 75 75 75 75 75 75 75 75 75 75 75 75 75 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 (120 x 6) 140 130 52 52 52 52 52 52 52 52 52 52 52 52 52 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4x(120x6) 52 50 52 50 50 50 50 50 50 50 50 50 50 50 50 50 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2x(200x6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 4 2 x (160 x 6) 4 2 x (160 x 6) | 4 2 x (200 x 6) | 4 4 4 4 4 (120 x 6) 5 2 2 2 2 2 2 4 4 1 3 0 2 3 4 4 1 3 0 2 3 4 1 3 0 2 3 4 1 3 0 2 3 4 1 3 0 2 3 4 1 3 0 2 3 1 3 0 2 3 1 3 1 3 1 3 0 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) | 4 2x(200x6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 4 2 x (160 x 6) 4 2 x (160 x 6) | 4 2x(200x6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 0 140 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 4 2 x (160 x 6) 4 2 x (160 x 6) | 4 2x(200x6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | ZA ZC ZP 10000 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 2 0 140 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 140 | 4 2x(200x6) | 4 4 4 4 4 (120 x 6) 5 5 1 4 0 5 0 2 5 1 4 0 5 0 2 5 1 4 0 5 0 2 0 5 0 2 5 1 3 0 5 0 2 5 1 3 0 5 0 1 3 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | | 1000 1 100 x 6 1 100 x 6 | Fire rated flat elb | | 2500 2 2x(120x6) | 3200 4 2 x (160 x 6) 4 2 x (160 x 6) 4 2 x (160 x 6) 4 2 x (160 x 6) | 4 2x(200x6) | |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | | 1000 1 100 x 6 1 100 x 6 | Fire rated flat elb | 00 2000 2 0x 6 200 x 6 2 0 140 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 3200 4 2 x (160 x 6) 3200 4 2 x (160 x 6) 3200 4 2 x (160 x 6) 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 3200 | 4 2x(200x6) | 4 4 4 4 4 4 4 4 4 4 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | 1 70×6 | 1000 1 100 x 6 1 100 x 6 | Fire rated flat elb | | 2500 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 140 | 4 2x(200x6) | 4 4 4 4 4 4 4 4 4 4 |
| Supports and fixing devices Edgewise zed Flat zed Trunking cross section Rating (A) Number of bar jointing bolts Bar cross-section (mm) Trunking height H (mm) | | ZA ZC ZP | Fire rated flat elb | $ \begin{array}{c} 00 \\ 2000 \\ $ | 2500 2 2 x (120 x 6) 2 2 x (120 x 6) | 3200 4 2 x (160 x 6) 4 2 x (160 x 6) 4 4 4 4 4 4 4 4 4 4 4 4 4 | 4 2x(200x6) | $\begin{array}{c cccccc} 4 & & & & & & & & & & & & & & & & & & $ |

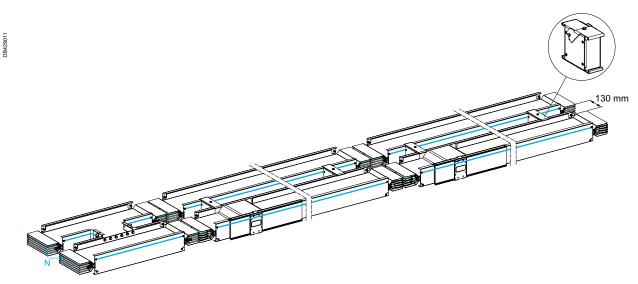
DD202181

Canalis KTA 5000 A

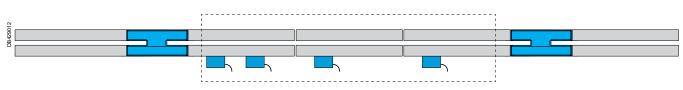
Canalis KTA



KTA5000 A is made of 2 units KTA2500 A linked together thanks to guide supports GS.



The current has to be re-balanced between the 2 runs in distribution applications.



If the total load of a group of tap-off units is above 1600 A, then add bridges (edgewise H units) between the 2 runs. Bridges have to be placed before and after the group.

Run components IP55

Canalis KTA 800 to 4000

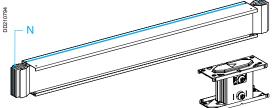
Ordering Complete the catalogue number by replacing "••••" by the rating. Important:

for the 800 A rating, add a "0" in the catalogue number : KTA0800
 add the dimensions of the selected component as a technical comment.
 Example: the catalogue number of an 800 A feeder length, 3L + N + PE,

2450 mm long, is: **KTA0800ET42C, L = 2450**

Rating

ET - Straight feeder lengths

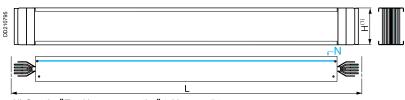


| Туре | Length | Cat. no. | | | |
|---------|--------------|-------------|-----------------|------------------|--|
| | "L" (mm) | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1) | |
| Fixed | 2000 | KTAeeeET320 | KTAeeeET420 | KTAeeeET520 | |
| | 4000 | KTAeeeET340 | KTAeeeET440 | KTAeeeET540 | |
| Made to | 500 to 1500 | KTAeeeET31A | KTAeeeET41A | KTAeeeeET51A | |
| measure | 1501 to 1999 | KTAeeeET32B | KTAeeeET42B | KTA | |
| | 2001 to 2500 | KTAeeeET32C | KTAeeeET42C | KTA | |
| | 2501 to 3000 | KTAeeeET33D | KTAeeeET43D | KTAeeeET53D | |
| | 3001 to 3500 | KTAeeeET33E | KTAeeeET43E | KTAeeeET53E | |
| | 3501 to 3999 | KTAeeeET33F | KTA•••ET43F | KTA | |

KTA •••• ET •••

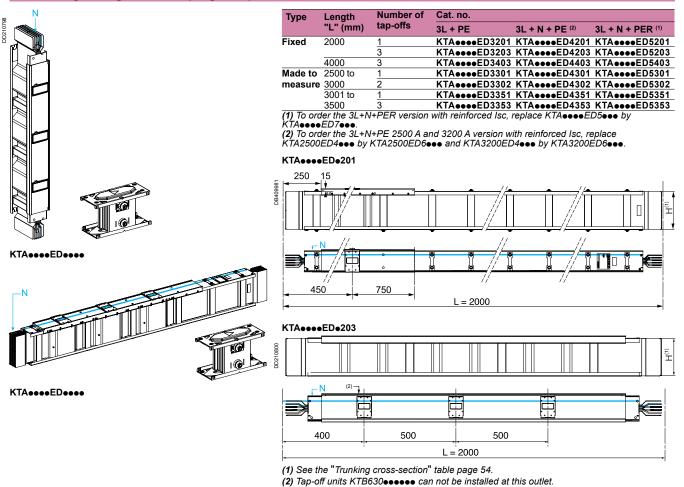
(1) To order the 3L+N+PER version with reinforced Isc, replace KTAeeeET5ee by KTAeeeET7ee.
 (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced Isc, replace KTA2500ET4ee by KTA2500ET6ee.



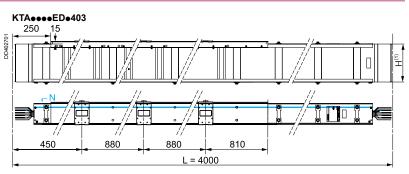


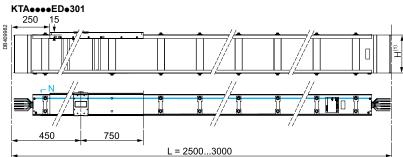
(1) See the "Trunking cross-section" table page 54.

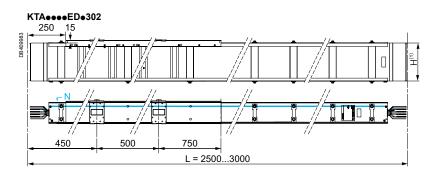
ED - Straight lengths for KS plug-in tap-off units



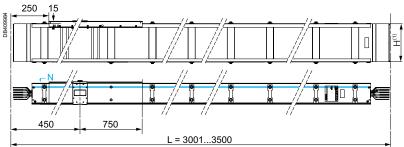
Straight lengths for KS plug-in tap-off units



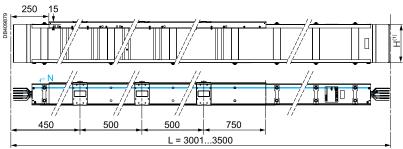




KTAeeeeEDe351



KTAeeeeEDe353

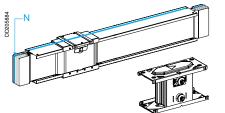


(1) See the "Trunking cross-section" table page 54.

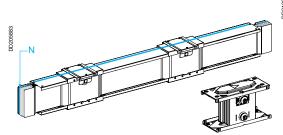
Run components IP55

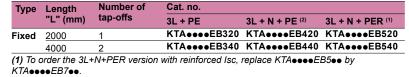
Canalis KTA 800 to 4000

EB - Straight lengths for bolted tap-off units



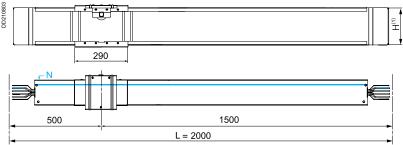
KTA





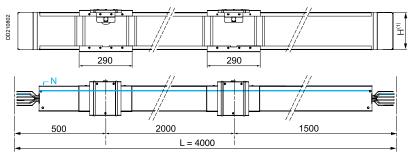
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EB4•• by KTA2500EB6•• and KTA3200EB4•• by KTA3200EB6••.

KTA



KTA

KTA••••EB•40



(1) See the "Trunking cross-section" table below.

Trunking cross-section 800(1) Rating (A) Weight (kg/m) 3L + PE 3L + N + PE 3L + N + PER Height H (mm) Width W (mm) DD202180 DD210867 Т W. <u>1</u>0 (1) Important: for the 800 A rating, indicate "KTA0800".

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Ordering

Complete the catalogue number by replacing the "••••" with the rating.

Important: in the catalogue number, for a rating of 800 A, add a "0": KTA0800.

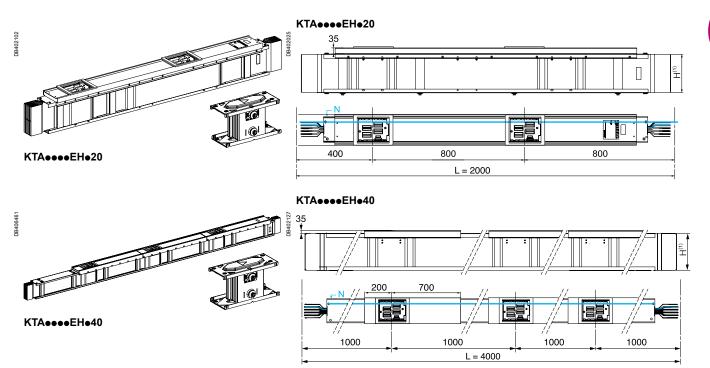
Example: a transport section 800 A, length 4 m. Catalogue number for 3L+N+PE: **KTA0800EH440**.

EH - Straight lengths for KH plug-in tap-off units

| Туре | Length | Number of | Cat. no. (4) | | |
|-------|----------|-----------|--------------|-----------------|------------------|
| | "L" (mm) | tap-offs | 3L+PE | 3L + N + PE (2) | 3L + N + PER (3) |
| Fixed | 2000 | 2 | KTAeeeEH320 | KTAeeeEH420 | KTAeeeeEH520 |
| | 4000 | 3 | KTAeeeeEH340 | KTAeeeEH440 | KTAeeeeEH540 |

(1) See the "Trunking cross-section" table page 54.

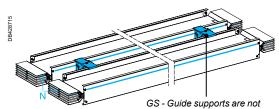
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EH4•• by KTA2500EH6•• and KTA3200EH4•• by KTA3200EH6••.
(3) To order the 3L+N+PER 2500 A and 3200 A version with reinforced lsc, replace KTA2500EH5•• by KTA2500EH7•• and KTA3200EH5•• by KTA3200EH7••.
(4) Not available for KTA5000.



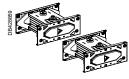
Run components

Canalis KTA 5000

ET - Straight feeder lengths

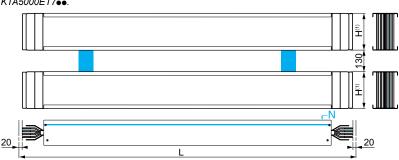


KTA5000ET...



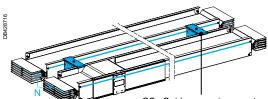
| Туре | Length "L" | Cat. no. | | |
|---------|--------------|--------------|--------------|------------------|
| | (mm) | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Fixed | 2000 | KTA5000ET320 | KTA5000ET420 | KTA5000ET520 |
| Fixed | 4000 | KTA5000ET340 | KTA5000ET440 | KTA5000ET540 |
| Made to | 500 to 1500 | KTA5000ET31A | KTA5000ET41A | KTA5000ET51A |
| measure | 1501 to 1999 | KTA5000ET32B | KTA5000ET42B | KTA5000ET52B |
| | 2001 to 2500 | KTA5000ET32C | KTA5000ET42C | KTA5000ET52C |
| | 2501 to 3000 | KTA5000ET33D | KTA5000ET43D | KTA5000ET53D |
| | 3001 to 3500 | KTA5000ET33E | KTA5000ET43E | KTA5000ET53E |
| | 3501 to 3999 | KTA5000ET33F | KTA5000ET43F | KTA5000ET53F |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000ET5•• by KTA5000ET7••.

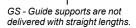


(1) See the "Trunking cross-section" table page 54.

ED - Straight lengths for KS plug-in tap-off units



KTA5000ED.



delivered with straight lengths.

DB428667

 Type
 Length "L" (mm)
 Number of tap-offs
 Cat. no.

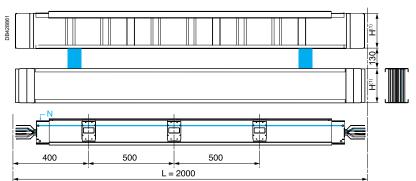
 Fixed
 2000
 3
 KTA5000ED3203
 KTA5000ED4203
 KTA5000ED5203

 4000
 3
 KTA5000ED3403
 KTA5000ED4403
 KTA5000ED5403

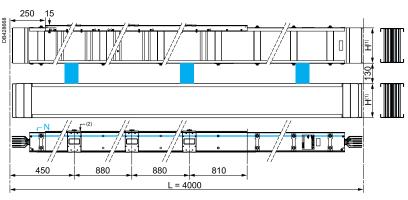
 (1) To order the 3L+N+PER version with reinforced lsc. replace KTA5000ED55063 by
 by

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000ED5••3 by KTA5000ED7••3.

KTAeeeeEDe203

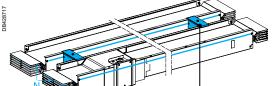


KTA



(1) See the "Trunking cross-section" table page 54.
(2) Tap-off units KTB630eeeee can not be installed at this outlet.

EB - Straight lengths for bolted tap-off units



KTA5000EB

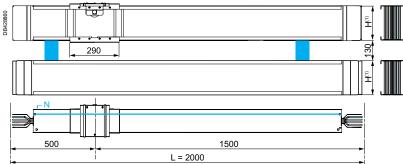
GS - Guide supports are not delivered with straight lengths.



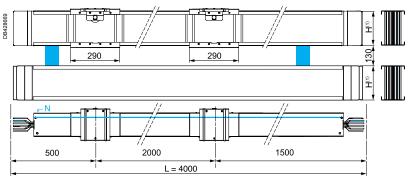
| Туре | Length | Number of | Cat. no. | | |
|-------|----------|-----------|--------------|--------------|------------------|
| | "L" (mm) | tap-offs | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Fixed | 2000 | 1 | KTA5000EB320 | KTA5000EB420 | KTA5000EB520 |
| | 4000 | 2 | KTA5000EB340 | KTA5000EB440 | KTA5000EB540 |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000EB5•• by KTA5000EB7••.

KTA5000EB•20



KTA5000EB•40



(1) See the "Trunking cross-section" table page 54.

Additional run components **IP55**

Canalis KTA 800 to 4000

Ordering

Complete the catalogue number by replacing "..... by the rating. Important:

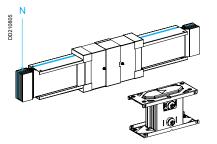
■ for the 800 A rating, add a "0" in the catalogue number : **KTA0800**

■ add the dimensions of the selected component as a technical comment. **Example:** the catalogue number of a 1250 A neutral crossover length,

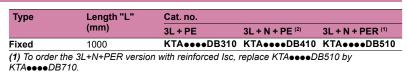
3L + N + PE, 1000 mm long, is: **KTA1250TN410**

Rating

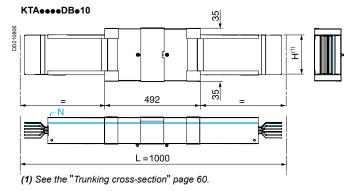
DB - Straight expansion unit



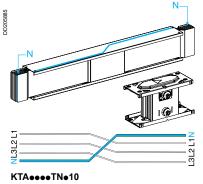
KTAeeeeDBe10



(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500DB4ee by KTA2500DB6ee and KTA3200DB4ee by KTA3200DB6ee.



TN - Neutral crossover length



| Туре | Length "L" | Cat. no. |
|-------|------------|--------------|
| | (mm) | 3L + N + PE |
| Fixed | 1000 | KTA••••TN410 |
| Fixed | 1000 | KTA••••TN610 |

Ē ĹΝ L=1000

(1) See the "Trunking cross-section" page 60.

005

Length "L" Cat. no. Туре (mm) 3L + N + PE KTAeeeeTP410 Fixed 1000 KTAeeeeTP610 1000 Fixed KTA DD210810 Ē L = 1000

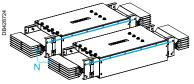
(1) See the "Trunking cross-section" page 60.

DD205886 L3 2 KTA

TP - Phase crossover length

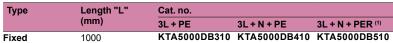
Canalis KTA 5000

DB - Straight expansion unit

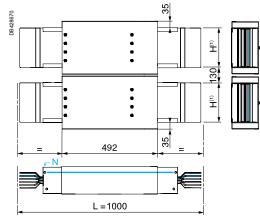


KTA5000DB•10



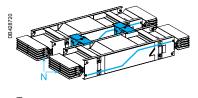


(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000DB510 by KTA5000DB710.



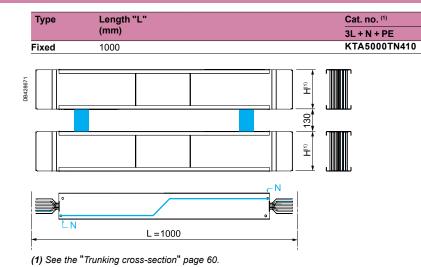
(1) See the "Trunking cross-section" page 60.

TN - Neutral crossover length

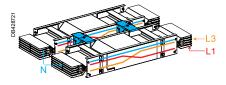


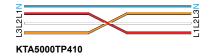




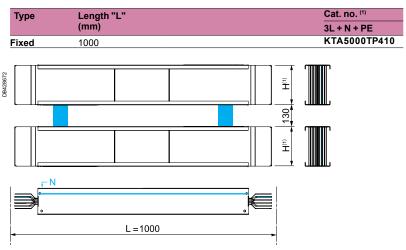


TP - Phase crossover length









(1) See the "Trunking cross-section" page 60.

Additional run components **IP55**

Canalis KTA 800 to 5000

YA - Additional jointing units



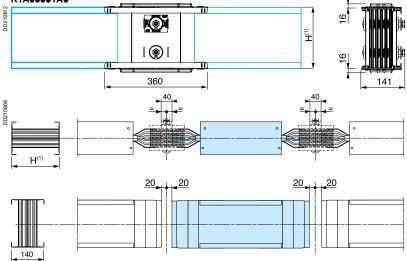
KTAeeeeYAe

| Туре | Cat. no. (2) | | | |
|------------------|--------------|-------------|--------------|------------|
| | 3L + PE | 3L + N + PE | 3L + N + PER | |
| Version code (1) | 3 | 4 or 6 | 5 | 7 |
| Jointing unit | KTA•••YA3 | KTA•••YA• | KTA•••YA5 | KTAeeeeYA7 |

(1) See catalogue-number coding page 50.

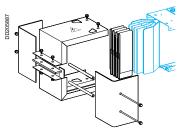
(2) References KTA5000YA• are made of 2 references KTA2500YA•.

KTA•••YA•



(1) See the "Trunking cross-section" table below.

FA - End covers

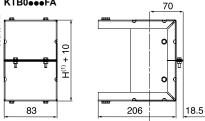


KTB0

D21086

| Туре | Rating of the trunking (A) | Height H of the trunking (mm) | Cat. no. |
|-----------|-------------------------------|----------------------------------|-----------|
| End cover | 800 | 74 | KTB0074FA |
| | 1000 | 104 | KTB0104FA |
| | 1250 | 124 | KTB0124FA |
| | 1600 | 164 | KTB0164FA |
| | 2000 | 204 | KTB0204FA |
| | 2500 | 244 | KTB0244FA |
| | 3200 | 324 | KTB0324FA |
| | 4000 | 404 | KTB0404FA |
| | 5000(1)(2) | 622 | KTB0622FA |





(1) See the "Trunking cross-section" table below. (2) The reference KTB0622FA is made of 2 references KTB0244FA.

Trunking cross-section 800(1) Rating (A) Weight (kg/m) 3L + PE 3L + N + PE 3L + N + PER Height H (mm) Width W (mm) DD202180 Т W_ (1) Important: for the 800 A rating, indicate "KTA0800".

Canalis KTA 5000

GS - Guide support

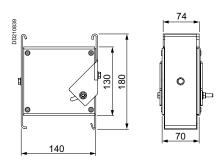


KTA5000GS1

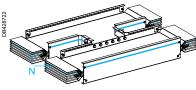
2 guide supports⁽¹⁾ are required to linked all KTA2500 elements together in order to create the KTA5000 run.

(1) 3 guide supports are required for 4 m straight length, 1 for straight end feed units ER1. These guide supports carry the label KTA5000A.

| Description | Cat. no. | Weight (kg) |
|-----------------|------------|-------------|
| 1 guide support | KTA5000GS1 | 0.6 |
| | | |



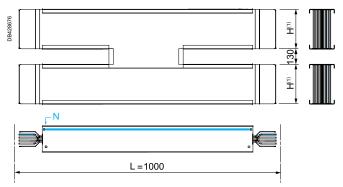
HC - Edgewise H



KTA5000HC•10



| Туре | Length "L" | Cat. no. | | |
|-------|--------------------------------|------------------------------|------------------|------------------|
| | (mm) | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Fixed | 1000 | KTA5000HC310 | KTA5000HC410 | KTA5000HC510 |
| • • | order the 3L+N+PEF 00HC710. | version with reinforced lsc, | replace KTA5000H | C510 by |



(1) See the "Trunking cross-section" page 60.

Catalogue numbers and dimensions

Elbow components for changing direction

IP55

Canalis KTA 800 to 4000

Ordering

Complete the catalogue number by replacing "••••" by the rating. *Important:*

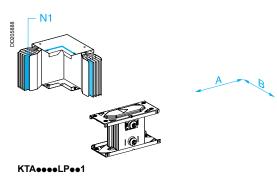
■ for the 800 A rating, add a "0" in the catalogue number : **KTA0800**

add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 2000 A flat elbow, N1, 3L + N + PE with dimensions A = 300 mm and B = 650 mm is: **KTA2000LP4B1, A = 300, B = 650.**



LP - Flat elbows



| N2 | AB |
|----|----|
| | |

KTA

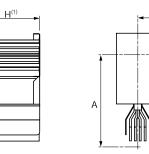
| Туре | Position of | Cat. no. | | |
|-------------------|-------------|--------------|-----------------|------------------|
| | neutral | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1) |
| 2 fixed branches | N1 | KTAeeeeLP3A1 | KTAeeeeLP4A1 | KTAeeeeLP5A1 |
| | N2 | KTAeeeeLP3A2 | KTAeeeeLP4A2 | KTA |
| 1 made to measure | N1 | KTAeeeeLP3B1 | KTAeeeeLP4B1 | KTAeeeeLP5B1 |
| short branche | N2 | KTAeeeeLP3B2 | KTAeeeeLP4B2 | KTAeeeeLP5B2 |
| 1 made to measure | N1 | KTAeeeeLP3D1 | KTAeeeeLP4D1 | KTAeeeeLP5D1 |
| long branche | N2 | KTAeeeeLP3D2 | KTA | KTA |
| 2 made to measure | N1 | KTA••••LP3E1 | KTA•••LP4E1 | KTAeeeeLP5E1 |
| branches | N2 | KTAeeeeLP3E2 | KTA | KTAeeeeLP5E2 |

В

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500LP4•• by KTA2500LP6•• and KTA3200LP4•• by KTA3200LP6••.

KTA ••••LP •••



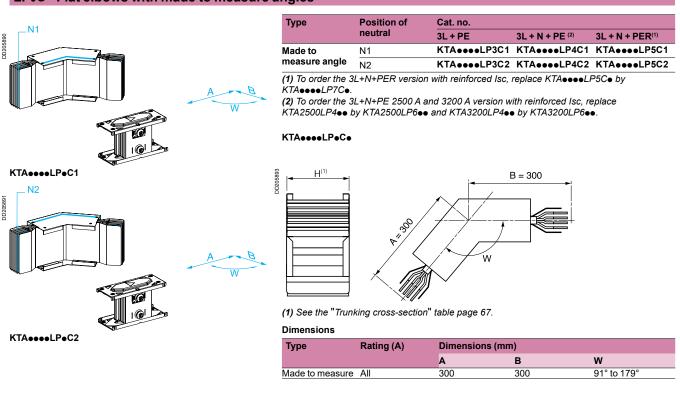
(1) See the "Trunking cross-section" table page 67.

Dimensions

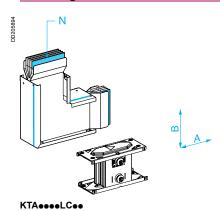
| Туре | Rating (A) | Dimensions (mm |) |
|--------------------------------------|---|----------------|-------------|
| | | Α | В |
| 2 fixed branches | 800, 1000, 1250 1600, 2000, 2500 3200, 4000 | 300 | 300 |
| 1 made to | 800, 1000, 1250 | 300 | 301 to 799 |
| measure short branche | 1600, 2000, 2500 3200, 4000 | 301 to 799 | 300 |
| 1 made to measure long branche | 800, 1000, 1250 | 300 | 800 to 1000 |
| | | 800 to 1000 | 300 |
| | 1600, 2000, 2500 | 300 | 800 to 1100 |
| | | 800 to 1100 | 300 |
| | 3200, 4000 | 300 | 800 to 1400 |
| | | 800 to 1400 | 300 |
| 2 made to | 800, 1000, 1250 | 301 to 600 | 301 to 1000 |
| measure | | 301 to 1000 | 301 to 600 |
| branches | 1600, 2000, 2500 | 301 to 600 | 301 to 1100 |
| | | 301 to 1100 | 301 to 600 |
| | 3200, 4000 | 301 to 600 | 301 to 1400 |
| | | 301 to 1400 | 301 to 600 |
| | 5000 | 301 to 600 | 301 to 1100 |
| | | 301 to 1100 | 301 to 600 |

Canalis KTA 800 to 4000

LP_•C - Flat elbows with made to measure angles



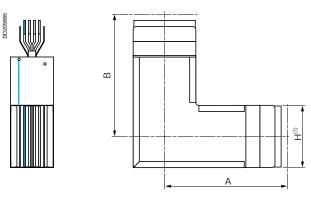
LC - Edgewise elbows



Туре Cat. no. 3L + PE 3L + N + PE (2) 3L + N + PER (1) KTAeeeeLC4A KTAeeeeLC3A 2 fixed branches KTAeeeeLC5A 1 made to measure short branche KTA••••LC3B KTAeeeeLC4B KTA KTA•••LC3D KTA KTAeeeeLC5D 1 made to measure long branche 2 made to measure branches KTA•••LC3E KTA KTA (1) To order the 3L+N+PER version with reinforced lsc, replace KTA KTA

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lcc, replace KTA2500LC4• by KTA2500LC6• and KTA3200LC4• by KTA3200LC6•.

KTA••••LC••

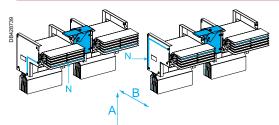


(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

Elbow components for changing direction

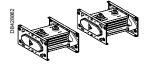
Canalis KTA 5000

LP - Elbows



| K1 | ГΔ | 50 | 0 | 01 | Р | •• | 1 |
|----|----|----|---|----|---|----|---|

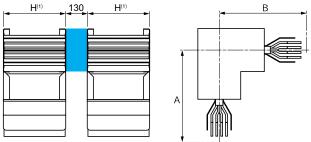
KTA5000LPee2



| Туре | Position of | Cat. no. | | |
|--------------------------|-------------|--------------|--------------|------------------|
| | neutral | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| 2 fixed branches | N1 | KTA5000LP3A1 | KTA5000LP4A1 | KTA5000LP5A1 |
| | N2 | KTA5000LP3A2 | KTA5000LP4A2 | KTA5000LP5A2 |
| 1 made to | N1 | KTA5000LP3B1 | KTA5000LP4B1 | KTA5000LP5B1 |
| measure short branche | N2 | KTA5000LP3B2 | KTA5000LP4B2 | KTA5000LP5B2 |
| 1 made to | N1 | KTA5000LP3D1 | KTA5000LP4D1 | KTA5000LP5D1 |
| measure long branche | N2 | KTA5000LP3D2 | KTA5000LP4D2 | KTA5000LP5D2 |
| 2 made to | N1 | KTA5000LP3E1 | KTA5000LP4E1 | KTA5000LP5E1 |
| measure branches | N2 | KTA5000LP3E2 | KTA5000LP4E2 | KTA5000LP5E2 |

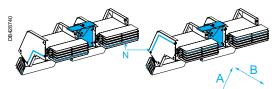
(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000LP5● by KTA5000LP7●.

2 x KTA2500LP ...



(1) See the "Trunking cross-section" table page 67 and dimensions page 62.

LP•C - Flat elbows with made to measure angles



KTA5000LPeC1

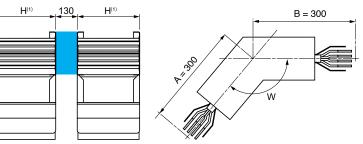
KTA5000LPeC2



| Туре | Position of | Cat. no. (2) | | |
|---------------|-------------|--------------|--------------|------------------|
| | neutral | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Made to | N1 | KTA5000LP3C1 | KTA5000LP4C1 | KTA5000LP5C1 |
| measure angle | N2 | KTA5000LP3C2 | KTA5000LP4C2 | KTA5000LP5C2 |

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000LP5C• by KTA5000LP7C•.

2 x KTA2500LP ...

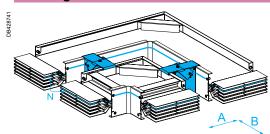


(1) See the "Trunking cross-section" table page 67.

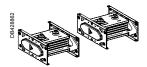
Dimensions Dimensions (mm) A B W 5000 300 300 91° to 179°

Canalis KTA 5000

LC - Edgewise elbows



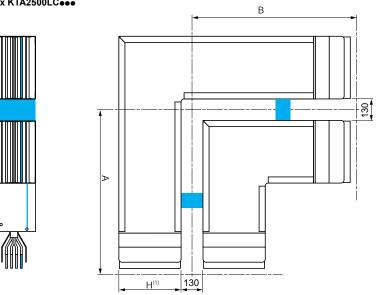
KTA5000LC...



| Туре | Cat. no. (2) | | |
|---------------------------------|--------------|-------------|------------------|
| | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| 2 fixed branches | KTA5000LC3A | KTA5000LC4A | KTA5000LC5A |
| 1 made to measure short branche | KTA5000LC3B | KTA5000LC4B | KTA5000LC5B |

2 x KTA2500LC...

DB428675



(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

Catalogue numbers and dimensions

Elbow components for changing direction IP55

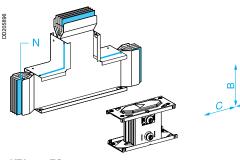
Canalis KTA 800 to 5000

| mensions ype | Rating (A) | Dimensions (n | nm) |
|--------------------------------------|------------|-----------------|---------------------------|
| уре | Rating (A) | | |
| fixed branches | 800(1) | A 275 | B 275 |
| ikeu bialiciles | 1000 | 290 | 290 |
| | 1250 | 300 | 300 |
| | | | |
| | 1600 | 320 | 320 |
| | 2000 | 340 | 340 |
| | 2500 | 360 | 360 |
| | 3200 | 400 | 400 |
| | 4000 | 440 | 440 |
| | 5000 | 548 | 548 |
| made to easure short | 800(1) | 275 | 276 to 774 |
| anche | | 276 to 774 | 275 |
| anone | 1000 | 290 | 291 to 789 |
| | | 291 to 789 | 290 |
| | 1250 | 300 | 301 to 799 |
| | | 301 to 799 | 300 |
| | 1600 | 320 | 321 to 819 |
| | | 321 to 819 | 320 |
| | 2000 | 340 | 341 to 839 |
| | | 341 to 839 | 340 |
| | 2500 | 360 | 361 to 859 |
| | | 361 to 859 | 360 |
| | 3200 | 400 | 401 to 899 |
| | | 401 to 899 | 400 |
| | 4000 | 440 | 441 to 939 |
| | | 441 to 939 | 440 |
| | 5000 | 548 | 549 to 1047 |
| | | 549 to 1047 | 548 |
| 1 made to | 800(1) | 275 | 775 to 1000 |
| l made to neasure long pranche | | 775 to 1000 | 275 |
| | 1000 | 290 | 790 to 1000 |
| | | 790 to 1000 | 290 |
| | 1250 | 300 | 800 to 1000 |
| | 1200 | 800 to 1000 | 300 10 1000 |
| | 1600 | 320 | 820 to 1100 |
| | 1000 | 820 to 1100 | 320 10 1100 |
| | 2000 | 340 | 840 to 1100 |
| | 2000 | 840 to 1100 | 340 10 1100 |
| | 2500 | 360 | 860 to 1100 |
| | 2000 | | |
| | 2200 | 860 to 1100 | 360 |
| | 3200 | 400 | 900 to 1400 |
| | 4000 | 900 to 1400 | 400 |
| | 4000 | 440 | 940 to 1400 |
| | 000(1) | 940 to 1400 | 440 |
| ade to | 800(1) | 276 to 745 | 276 to 1000 |
| asure nches | | 276 to 1000 | 276 to 745 |
| | 1000 | 291 to 730 | 291 to 1000 |
| | | 291 to 1000 | 291 to 730 |
| | 1250 | 301 to 720 | 301 to 1000 |
| | | 301 to 1000 | 301 to 720 |
| | 1600 | 321 to 700 | 321 to 1100 |
| | | 321 to 1100 | 321 to 700 |
| | 2000 | 341 to 680 | 341 to 1100 |
| | | 341 to 1100 | 341 to 680 |
| | 2500 | 361 to 660 | 361 to 1100 |
| | | 361 to 1100 | 361 to 660 |
| | 3200 | 401 to 620 | 401 to 1400 |
| | | 401 to 1400 | 401 to 620 |
| | 4000 | 441 to 580 | 401 to 020 441 to 1400 |
| | | HH I IO JOU | HH I U 1400 |

(1) For the 800 A rating, indicate "KTA0800".

Canalis KTA 800 to 4000

TC - Edgewise tee



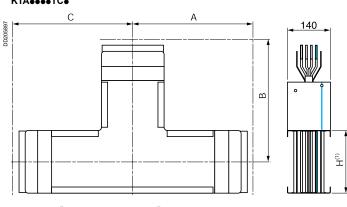
КТА•••ТС•

| Туре | Cat. no. (3) | | |
|-------|--------------|-----------------|------------------|
| | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1) |
| Fixed | KTA••••TC3 | KTA | KTAeeeTC5 |

ЌТА••••ТС7.

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500TC4 by KTA2500TC6 and KTA3200TC4 by KTA3200TC6. (3) Not available for KTA5000.

KTA••••TC•



(1) See the "Trunking cross-section" table below.

Dimensions

| Туре | Rating (A) | Dimensions (mm) | | | |
|-------|------------|-----------------|-----|-----|--|
| | | Α | В | С | |
| Fixed | 800(2) | 275 | 275 | 275 | |
| | 1000 | 290 | 290 | 290 | |
| | 1250 | 300 | 300 | 300 | |
| | 1600 | 320 | 320 | 320 | |
| | 2000 | 340 | 340 | 340 | |
| | 2500 | 360 | 360 | 360 | |
| | 3200 | 400 | 400 | 400 | |
| | 4000 | 440 | 440 | 440 | |

(2) For the 800 A rating, indicate "KTA0800".

Trunking cross-section 800(1) Rating (A) 3L + PE Weight (kg/m) 3L + N + PE 3L + N + PER Height H (mm) Width W (mm) DD202180 W. <u>5</u> <u>7</u> (1) Important: for the 800 A rating, indicate "KTA0800".

D210867

Zed components for changing direction

IP55

Canalis KTA 800 to 4000

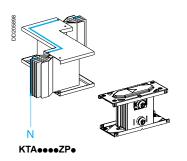
Ordering

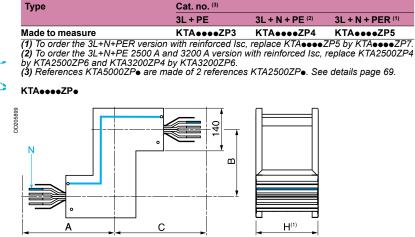
- Complete the catalogue number by replacing "••••" by the rating. Important: I for the 800 A rating, add a "0" in the catalogue number : **KTA0800** add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 1600 A edgewise zed unit, N2, 3L + N + PE with dimensions A = 300 mm, B = 450 mm, C = 300 mm is: KTA1600ZC42, A = 300, B = 450, C = 300.

Rating

ZP - Flat zed units



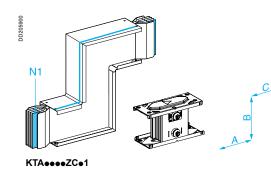


(1) See the "Trunking cross-section" page 70.

Dimensions

| Rating (A) | Dimension | s (mm) | | |
|------------|-----------|------------|-----|--|
| | A | В | С | |
| All | 300 | 130 to 599 | 300 | |

ZC - Edgewise zed units

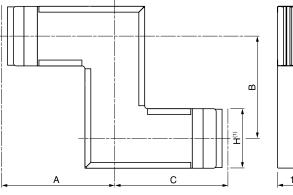


(@[|]

Туре Position of Cat. no. neutral 3L + PE 3L + N + PE (2) 3L + N + PER⁽¹⁾ Made to KTA KTAeeeeZC41 KTAeeeeZC51 N1 measure KTAeeeZC32 KTA KTA N₂

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA $\bullet\bullet\bullet\bullet$ ZC5 \bullet by KTA $\bullet\bullet\bullet\bullet$ ZC7 \bullet . (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced Isc, replace KTA2500ZC4 \bullet by KTA2500ZC6 \bullet .

KTA•••ZC••





(1) See the "Trunking crosssection" page 70. (2) For the 800 A rating, indicate "KTA0800".



N2

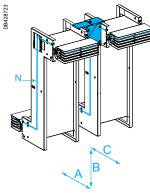
| Dimensions | | |
|------------|------------|------|
| Rating (A) | Dimensions | (mm) |
| | Α | в |

| | A | В | С | |
|--------|-----|-----------|-----|--|
| 800(2) | 275 | 90 to 549 | 275 | |
| 1000 | 290 | 90 to 579 | 290 | |
| 1250 | 300 | 90 to 599 | 300 | |
| 1600 | 320 | 90 to 639 | 320 | |
| 2000 | 340 | 90 to 679 | 340 | |
| 2500 | 360 | 90 to 719 | 360 | |
| 3200 | 400 | 90 to 799 | 400 | |
| 4000 | 440 | 90 to 879 | 440 | |

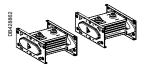


Canalis KTA 5000

ZP - Flat zed units

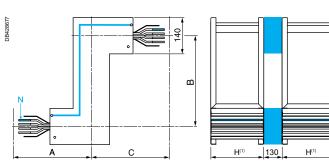


KTA5000ZP•



| Туре | Cat. no. | | |
|-----------------|------------|-------------|------------------|
| | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Made to measure | KTA5000ZP3 | KTA5000ZP4 | KTA5000ZP5 |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000ZP5 by KTA5000ZP7.

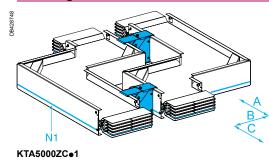


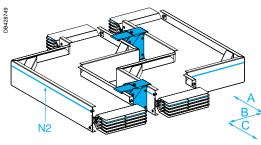
(1) See the "Trunking cross-section" page 70.

Dimensions

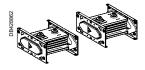
| Rating (A) | Dimensions (mm) | | |
|------------|-----------------|------------|-----|
| | A | В | С |
| 5000 | 300 | 130 to 599 | 300 |

ZC - Edgewise zed units

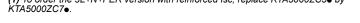


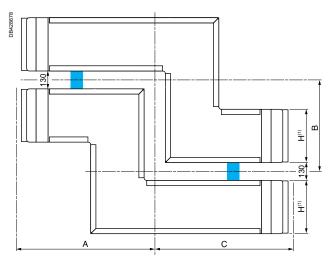


KTA5000ZC•2



| Туре | Position of neutral | Cat. no. (2) | | |
|---------|------------------------|--------------|-------------|------------------|
| | | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Made to | N1 | KTA5000ZC31 | KTA5000ZC41 | KTA5000ZC51 |
| measure | N2 | KTA5000ZC32 | KTA5000ZC42 | KTA5000ZC52 |





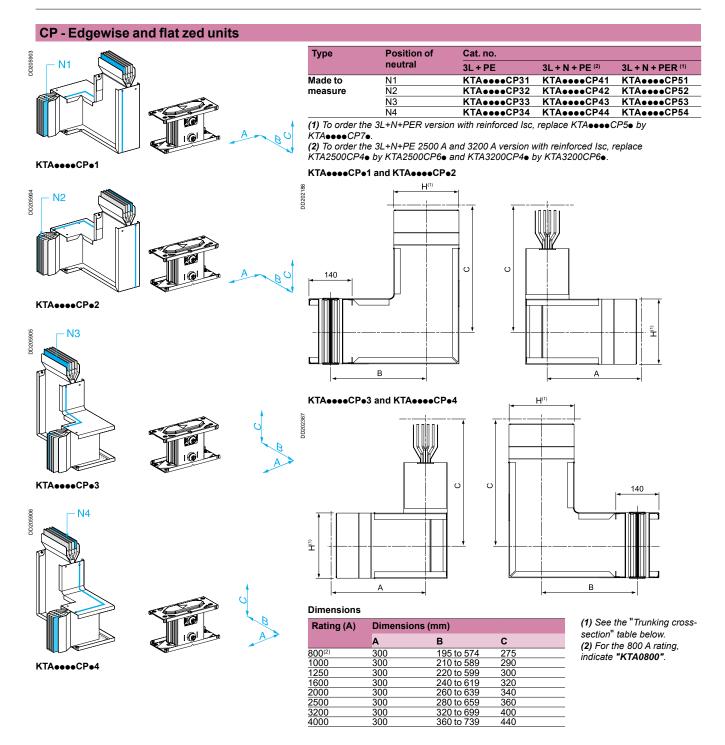


(1) See the "Trunking cross-section" page 70.

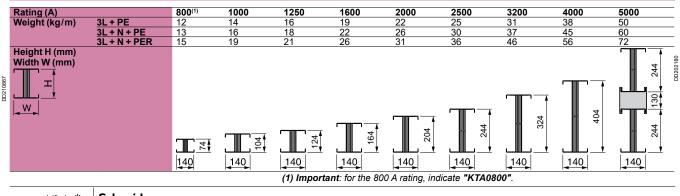
| Dimensions Rating (A) | | | | |
|--------------------------|-----|-----------|-----|--|
| | Α | В | С | |
| 5000 | 548 | 90 to 719 | 548 | |

Zed components for changing direction

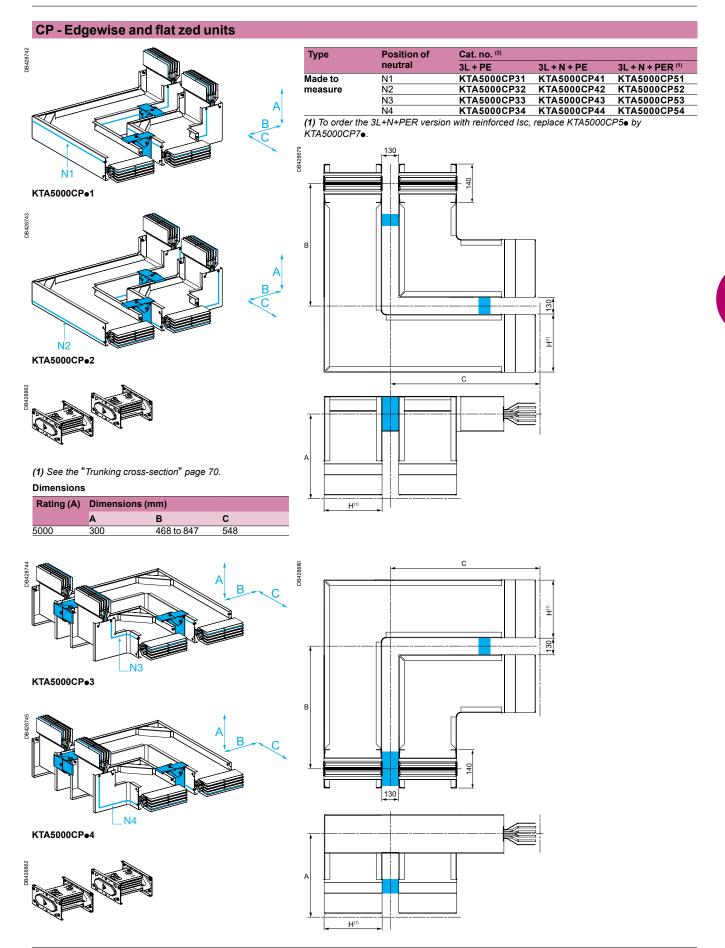
Canalis KTA 800 to 4000



Trunking cross-section



Canalis KTA 5000



Catalogue numbers and dimensions

Fire rated straight feeder lengths **IP55**

Canalis KTA 800 to 4000

Compliant with the IEC 60331

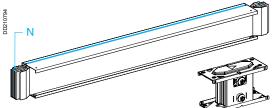
Ordering Complete the catalogue number by replacing "••••" by the rating. Important:

- for the 800 A rating, add a "0" in the catalogue number : KTA0800
 add the dimensions of the selected component as a technical comment.
 Example: the catalogue number of an 800 A feeder length, 3L + N + PE,

2450 mm long, is: **KTA0800FT42C, L = 2450**

Rating

FT - Fire rated straight feeder lengths



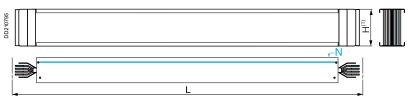
| Туре | Length | Cat. no. | | |
|---------|--------------|--------------|-----------------|------------------|
| | "L" (mm) | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1) |
| Fixed | 2000 | KTAeeeFT320 | KTA | KTAeeeFT520 |
| | 4000 | KTAeeeeFT340 | KTA | KTAeeeeFT540 |
| Made to | 500 to 1500 | KTAeeeeFT31A | KTA | KTAeeeeFT51A |
| measure | 1501 to 1999 | KTAeeeeFT32B | KTA | KTAeeeeFT52B |
| | 2001 to 2500 | KTAeeeeFT32C | KTA | KTAeeeeFT52C |
| | 2501 to 3000 | KTAeeeeFT33D | KTA | KTAeeeeFT53D |
| | 3001 to 3500 | KTA•••FT33E | KTA•••FT43E | KTAeeeeFT53E |
| | 3501 to 3999 | KTAeeeeFT33F | KTA | KTAeeeeFT53F |

KTA ••••FT •••

C1) To order the 3L+N+PE version with reinforced lsc, replace KTA $\bullet \bullet \bullet FT$ **C2)** To order the 3L+N+PE version with reinforced lsc, replace KTA $\bullet \bullet \bullet \bullet FT$ **C3)** To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 FT **C4)** To order the 3L+N+PE 2500 A and KTA3200FT **C4)** To order the 3L+N+PE 2500 FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A and S200 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A version with reinforced lsc, replace KTA2500FT **C4)** To order the 3L+N+PE 2500 A ver

KTA FT

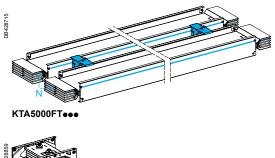
_



(1) See the "Trunking cross-section" table page 70.

Canalis KTA 5000

FT - Fire rated straight feeder lengths



| Туре | Length "L" | Cat. no. | | |
|---------|--------------|--------------|--------------|------------------|
| | (mm) | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Fixed | 2000 | KTA5000FT320 | KTA5000FT420 | KTA5000FT520 |
| Fixed | 4000 | KTA5000FT340 | KTA5000FT440 | KTA5000FT540 |
| Made to | 500 to 1500 | KTA5000FT31A | KTA5000FT41A | KTA5000FT51A |
| measure | 1501 to 1999 | KTA5000FT32B | KTA5000FT42B | KTA5000FT52B |
| | 2001 to 2500 | KTA5000FT32C | KTA5000FT42C | KTA5000FT52C |
| | 2501 to 3000 | KTA5000FT33D | KTA5000FT43D | KTA5000FT53D |
| | 3001 to 3500 | KTA5000FT33E | KTA5000FT43E | KTA5000FT53E |
| | 3501 to 3999 | KTA5000FT33F | KTA5000FT43F | KTA5000FT53F |
| | | | | |
| | | | | 130 |
| | | | | |
| | | | | |
| | | | | |

(1) See the "Trunking cross-section" table page 70.

Fire rated flat elbows

IP55

Compliant with the IEC 60331

Canalis KTA 800 to 4000

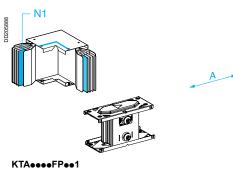
Ordering

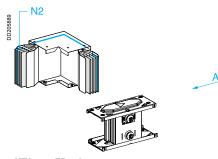
- Important:

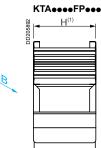
 for the 800 A rating, add a "0" in the catalogue number : KTA0800
 add the dimensions of the selected component as a technical comment. **Example:** the catalogue number of a 2000 A flat elbow, N1, 3L + N + PE with dimensions A = 300 mm and B = 650 mm is: KTA2000FP4B1, A = 300, B = 650.

Rating

FP - Fire rated flat elbows







Position of Cat. no. Туре neutral 3L + PE 3L + N + PE (2) 3L + N + PER (1) КТА••••FP3A1 КТА••••FP4A1 КТА••••FP5A1 2 fixed branches N1 N2 KTA••••FP3A2 KTA••••FP4A2 KTA••••FP5A2 KTA••••FP3B1 KTA••••FP4B1 KTA••••FP5B1 1 made to measure N1 short branche KTA••••FP3B2 KTA••••FP4B2 KTA••••FP5B2 N2 KTA••••FP3D1 KTA••••FP4D1 KTA••••FP5D1 1 made to measure N1 long branche N2 KTA••••FP3D2 KTA••••FP4D2 KTA••••FP5D2 КТА••••FP3E1 КТА••••FP4E1 КТА••••FP5E1 2 made to measure N1 branches N2 KTA••••FP3E2 KTA••••FP4E2 KTA••••FP5E2 (1) To order the 3L+N+PER version with reinforced lsc, replace KTA

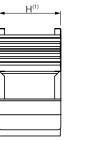
B

KTA

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500FP4ee by KTA2500FP6ee and KTA3200FP4ee by KTA3200FP6ee.

(1) See the "Trunking cross-section" table page 70 and dimensions page 66.

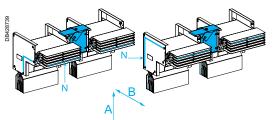
А



KTA

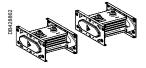
Canalis KTA 5000

FP - Fire rated flat elbows



KTA5000FP••1

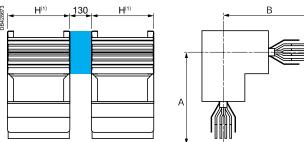
KTA5000FP••2



| Туре | Position of | Cat. no. | | |
|--------------------------|-------------|--------------|--------------|------------------|
| | neutral | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| 2 fixed branches | N1 | KTA5000FP3A1 | KTA5000FP4A1 | KTA5000FP5A1 |
| | N2 | KTA5000FP3A2 | KTA5000FP4A2 | KTA5000FP5A2 |
| 1 made to | N1 | KTA5000FP3B1 | KTA5000FP4B1 | KTA5000FP5B1 |
| measure short branche | N2 | KTA5000FP3B2 | KTA5000FP4B2 | KTA5000FP5B2 |
| 1 made to | N1 | KTA5000FP3D1 | KTA5000FP4D1 | KTA5000FP5D |
| measure long branche | N2 | KTA5000FP3D2 | KTA5000FP4D2 | KTA5000FP5D2 |
| 2 made to | N1 | KTA5000FP3E1 | KTA5000FP4E1 | KTA5000FP5E1 |
| measure branches | N2 | KTA5000FP3E2 | KTA5000FP4E2 | KTA5000FP5E2 |

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000FP5. by KTA5000FP7.





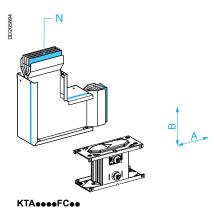
(1) See the "Trunking cross-section" table page 70 and dimensions page 66.

Fire rated edgewise elbows

Compliant with the IEC 60331

Canalis KTA 800 to 4000

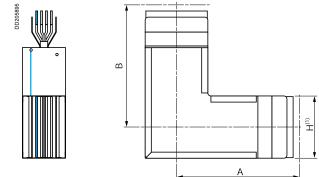
FC - Fire rated edgewise elbows



Туре Cat. no. 3L + PE 3L + N + PE (2) 3L + N + PER (1) KTA KTA 2 fixed branches KTAeeeFC3A 1 made to measure short branche KTA••••FC3B KTAeeeFC4B KTA KTAeeeFC3D KTA KTA 1 made to measure long branche KTA KTA KTA•••FC5E 2 made to measure branches (1) To order the 3L+N+PER version with reinforced lsc, replace KTA KTA

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lcc, replace KTA2500FC4• by KTA2500FC6• and KTA3200FC4• by KTA3200FC6•.

KTA••••FC••

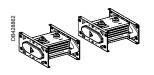


(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

Canalis KTA 5000

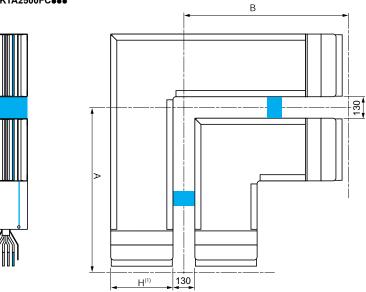
FC - Fire rated edgewise elbows

KTA5000FC...



| Туре | Cat. no. (2) | | |
|---------------------------------|--------------|-------------|------------------|
| | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| 2 fixed branches | KTA5000FC3A | KTA5000FC4A | KTA5000FC5A |
| 1 made to measure short branche | KTA5000FC3B | KTA5000FC4B | KTA5000FC5B |

2 x KTA2500FC



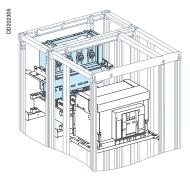
(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

Canalis interfaces for Prisma P LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact NW circuit breakers

Top direct connection



Rear connection

Interfaces can be ordered by 2 channels:

■ as a Canalis KT product, in this case use the reference in this catalogue eg. **KTB04715**

■ as a Prisma or Okken product, in this case remove the radical **KTB** to find the correct reference eg.04715.

All accessories are only available as Prisma or Okken references.

All mounting instruction or other documents will be found by using the reference without ${\bf KTB}$ radical.

| Circuit | Type of | Canalis | No. of poles | Conne | ction | Cat. no. |
|---------|--------------------|----------|-----------------------|---------------|-------|---------------------|
| breaker | circuit breaker | polarity | of circuit breaker | Top direct | Rear | _ |
| NW08/16 | Fixed or | 3L+PE | 3P | | | KTB04715 |
| | drawout | 3L+N+PE | 4P | | | KTB04716 |
| | | 3L+N+PER | 4P | | | KTB04716+KTB0164PE1 |
| NW20/25 | Fixed or | 3L+PE | 3P | | | KTB04725 |
| | drawout | 3L+N+PE | 4P | | | KTB04726 |
| | | 3L+N+PER | 4P | | | KTB04726+KTB0244PE1 |
| NW32 | Fixed or | 3L+PE | 3P | | | KTB04735 |
| | drawout | 3L+N+PE | 4P | | | KTB04736 |
| | | 3L+N+PER | 4P | | | KTB04736+KTB0404PE1 |
| NW40 | Fixed or | 3L+PE | 3P | | | KTB04737 |
| | drawout | 3L+N+PE | 4P | | | KTB04738 |
| | | 3L+N+PER | 4P | | | KTB04738+KTB0404PE1 |

Number of modules required in the switchboard

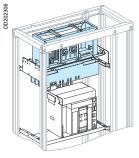
| Circuit breaker | Connection | Type of circuit breaker | Number of vertical modules ⁽¹⁾ |
|-----------------|------------|----------------------------|---|
| NW08/16 | Top direct | Fixed or drawout | 27 |
| | Rear | Fixed | 16 |
| | | Drawout | 17 |
| NW20/32 | Top direct | Fixed or drawout | 28 |
| | Rear | Fixed | 16 |
| | | Drawout | 17 |
| NW40 | Rear | Fixed or drawout | 36 |

(1) 1 module = 50 mm.

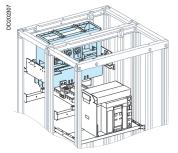
Canalis interfaces for Prisma P LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact NT and Compact NS circuit breakers



Top direct connection



Rear connection

Masterpact NT

| Circuit | Type of | Canalis | No. of poles | Conne | ction | Cat. no. |
|---------|--------------------|----------|-----------------------|---------------|-------|---------------------|
| breaker | circuit breaker | polarity | of circuit breaker | Top direct | Rear | _ |
| NT06/12 | Fixed or | 3L+PE | 3P | | | KTB04703 |
| | drawout | 3L+N+PE | 4P | | | KTB04704 |
| | | 3L+N+PER | 4P | • | | KTB04704+KTB0164PE1 |
| NT16 | Fixed or | 3L+PE | 3P | | | KTB04703 |
| | drawout | 3L+N+PE | 4P | | | KTB04704 |
| | | 3L+N+PER | 4P | | | KTB04704+KTB0164PE1 |

For the position in the switchboard, see the "Installation guide".

Compact NS

| Circuit | Type of | Canalis | No. of poles | Conne | ction | Cat. no. |
|---------|--------------------|----------|-----------------------|---------------|-------|---------------------|
| breaker | circuit breaker | polarity | of circuit breaker | Top direct | Rear | |
| NS630b/ | Fixed or | 3L+PE | 3P | | | KTB04703 |
| 1250 | drawout | 3L+N+PE | 4P | | | KTB04704 |
| | | 3L+N+PER | 4P | • | | KTB04704+KTB0164PE1 |
| NS1600 | Fixed or | 3L+PE | 3P | | | KTB04703 |
| | drawout | 3L+N+PE | 4P | | | KTB04704 |
| | | 3L+N+PER | 4P | | | KTB04704+KTB0164PE1 |

For the position in the switchboard, see the "Installation guide".

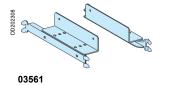
Number of modules required in the switchboard

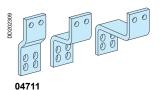
| Circuit breaker | Connection | Type of circuit breaker | Number of vertical modules ⁽¹⁾ |
|-----------------|------------|----------------------------|---|
| NT06/12 | Top direct | Fixed | 17 |
| NS630b/1250 | | Drawout | 18 |
| | Rear | Fixed or drawout | 16 |
| NT16 NS1600 | Rear | Fixed or drawout | 16 |

(1) 1 module = 50 mm.

Canalis KTA 800 to 4000

Interface supports and protection covers





| Circuit breaker | Type of circu breaker | uit Con | nection | Supports | Terminal extension bar supports | Cover |
|--------------------------------|---|---------------------|----------------------------------|-------------------------|---|---|
| NW08/32 | Fixed or | Тор | direct | 03561 | 3 x 04694 | 04871 + 04861 |
| | drawout | Rea | r | 03561 | 2 x 04694 | 04871 + 04863 |
| NW40 | Fixed or | Тор | direct | 03561 | - | 04871 + 04861 |
| | drawout | Rea | r | 03561 | - | 04871 + 04863 |
| | | Canalis | Connecti | on Suppor | ts Canalis/ | Cover |
| Masterpa Circuit breaker | ct NT Type of circuit breaker | Canalis polarity | | on Suppor | ts Canalis/ circuit breaker connection | Cover |
| Circuit breaker | Type of circuit breaker Fixed or | | | | circuit breaker | |
| Circuit breaker | Type of circuit breaker | polarity | 1 | | circuit breaker connection | |
| Circuit breaker | Type of circuit breaker Fixed or | polarity | Top direct | 03561 03561 | circuit breaker connection 04712 | 04871 + 04852 |
| Circuit breaker | Type of circuit breaker Fixed or | polarity 3P | Top direct Rear | 03561 03561 | circuit breaker connection 04712 04713 | 04871 + 04852 04871 + 04853 |
| | Type of circuit breaker Fixed or | polarity 3P | Top direct Rear Top direct | 03561 03561 03561 | circuit breaker connection 04712 04713 04712 | 04871 + 04852 04871 + 04853 04871 + 04852 |

Compact NS

| Circuit breaker | Type of circuit breaker | Canalis polarity | Connection | Supports | Canalis/ circuit breaker connection | Cover |
|--------------------|-------------------------------|---------------------|------------|----------|--|---------------|
| NS630b/ | Fixed | 3P | Top direct | 03561 | 04712 | 04871 + 04851 |
| 1250 | | | Rear | 03561 | 04713 | 04871 + 04853 |
| | | 4P | Top direct | 03561 | 04712 | 04871 + 04851 |
| | | | Rear | 03561 | 04714 | 04871 + 04853 |
| | Drawout | 3P | Top direct | 03561 | 04711 | 04871 + 04852 |
| | | | Rear | 03561 | 04713 | 04871 + 04854 |
| | | 4P | Top direct | 03561 | 04712 | 04871 + 04852 |
| | | | Rear | 03561 | 04714 | 04871 + 04854 |
| NS1600 | Fixed | 3P | Rear | 03561 | 04713 | 04871 + 04853 |
| | | 4P | Rear | 03561 | 04714 | 04871 + 04853 |
| | Drawout | 3P | Rear | 03561 | 04713 | 04871 + 04854 |
| | | 4P | Rear | 03561 | 04714 | 04871 + 04854 |

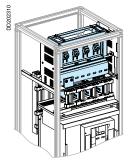
Arc-chute covers

| Circuit breaker | Type of circuit breaker | Canalis polarity | Cat. no |
|-----------------|-------------------------|------------------|---------|
| Masterpact NT | Fixed | 3P | 47335 |
| | | 4P | 47336 |
| Compact NS | Fixed | 3P | 33596 |
| | | 4P | 33597 |

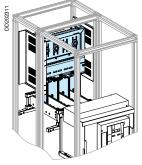
Canalis interfaces for Okken LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact NW circuit breakers



Top direct connection (RDH)

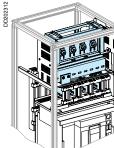


Rear connection (RAR)

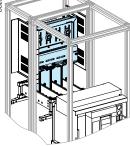
| Circuit | Type of | Canalis | No. of poles | Conne | ction | Cat. no. |
|---------|--------------------|----------|-----------------------|-------------------|-------|--------------------|
| breaker | circuit breaker | polarity | of circuit breaker | Top Rea direct | | _ |
| NW08/16 | Drawout | 3L+PE | 3P | | | KTB87811 |
| | | | | | | KTB87821 |
| | | 3L+N+PE | 4P | • | | KTB87812 |
| | | | | | | KTB87822 |
| | | 3L+N+PER | 4P | | | KTB87812+KTB0164PB |
| | | | | | | KTB87822+KTB0164PE |
| NW20/25 | Drawout | 3L+PE | 3P | | | KTB87813 |
| | | | | | | KTB87823 |
| | | 3L+N+PE | 4P | | | KTB87814 |
| | | | | | | KTB87824 |
| | | 3L+N+PER | 4P | | | KTB87814+KTB0244PE |
| | | | | | | KTB87824+KTB0244PI |
| NW32 | Drawout | 3L+PE | 3P | | | KTB87815 |
| | | | | | | KTB87825 |
| | | 3L+N+PE | 4P | | | KTB87816 |
| | | | | | | KTB87826 |
| | | 3L+N+PER | 4P | • | | KTB87816+KTB0404PB |
| | | | | | | KTB87826+KTB0404PE |
| NW40 | Drawout | 3L+PE | 3P | | | KTB87817 |
| | | | | | | KTB87827 |
| | | 3L+N+PE | 4P | • | | KTB87818 |
| | | | | | | KTB87828 |
| | | 3L+N+PER | 4P | | | KTB87818+KTB0404PE |
| | | | | | | KTB87828+KTB0404PE |

For the position in the switchboard, see the "Installation guide".

Interfaces for Masterpact NT circuit breakers



Top direct connection (RDH)



Rear connection (RAR)

Fitting the interface does not change switchboard modularity as fixed by the devices.

| Circuit | Type of | Canalis | No. of poles | Conne | ction | Cat. no. |
|---------|--------------------|----------|-----------------------|---------------|-------|---------------------|
| breaker | circuit breaker | polarity | of circuit breaker | Top direct | Rear | _ |
| NT08/16 | Drawout | 3L+PE | 3P | | | KTB87811 |
| | | | | | | KTB87821 |
| | | 3L+N+PE | 4P | | | KTB87812 |
| | | | | | | KTB87822 |
| | | 3L+N+PER | 4P | | | KTB87812+KTB0164PE1 |
| | | | | | | KTB87822+KTB0164PE1 |

For the position in the switchboard, see the "Installation guide".

Interface supports

| Circuit breaker | Type of circuit breaker | Connection | Cat. no. |
|-----------------------------------|-------------------------|------------|----------|
| NW08/40 NT08/16 | Drawout | Top direct | 87800 |
| NW08/32 ⁽¹⁾ NT08/16 | Drawout | Rear | 87801 |

(1) For rear connection of the interface to a Masterpact NW40 circuit breaker, the supports are supplied with the interface.

| Designation | Cat. no. |
|-------------------------------|----------|
| Special tightening wrench bit | 87808 |

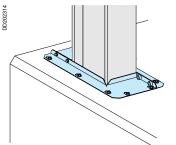
■ For 2 superimposed 120x10 bars.

This tool is essential to tighten the conversion modules on the junction block's spreaders. It is fitted on a torque wrench.

Sealing kits IP55

Canalis KTA 800 to 4000

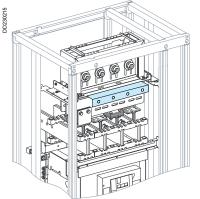
TT - Sealing kits for switchboard and Trihal transformer roofs with interface



| Туре | Rating of the trunking (A) | Height H of the trunking (mm) | Cat. no. |
|-------------|----------------------------|----------------------------------|-------------|
| Sealing kit | 800 | 74 | KTB0074TT01 |
| | 1000 | 104 | KTB0104TT01 |
| | 1250 | 124 | KTB0124TT01 |
| | 1600 | 164 | KTB0164TT01 |
| | 2000 | 204 | KTB0204TT01 |
| | 2500 | 244 | KTB0244TT01 |
| | 3200 | 324 | KTB0324TT01 |
| | 4000 | 404 | KTB0404TT01 |

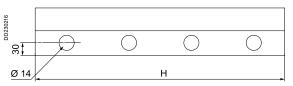
KTB0

PE - Reinforced protective earth (PER) for Prisma P and Okken interfaces



| Height "H" (mm) | Number of holes | Cat.no. |
|-----------------|-----------------|------------|
| 160 | 2 | KTB0164PE1 |
| 240 | 3 | KTB0244PE1 |
| 400 | 4 | KTB0404PE1 |
| | | |

KTB0



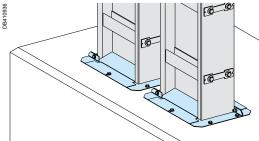


Thickness: 3 mm.

KTB0

Canalis KTA 5000

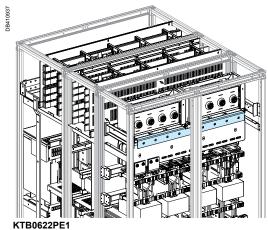
TT - Sealing kits for switchboard and Trihal transformer roofs with interface

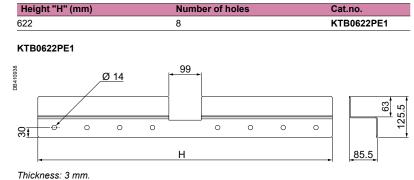


| Туре | Rating of the trunking (A) | Height H of the trunking (mm) | Cat. no. |
|-------------|-------------------------------|----------------------------------|-------------|
| Sealing kit | 5000 | 622 | KTB0622TT01 |

KTB0622TT01

PE - Reinforced protective earth (PER) for Prisma P and Okken interfaces





Catalogue numbers and dimensions

Feed units for switchboards and oil immersed transformers

Canalis KTA 800 to 4000

Ordering

Complete the catalogue number by replacing "••••" by the rating. *Important:*

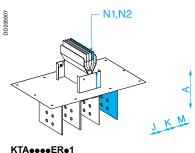
■ in the catalogue number for the 800 A rating, add a "0": KTA0800

add the dimensions of the selected unit as a technical comment.

Example: the catalogue number of a 1250 A made to measure end feed unit, N2, 3L + N + PE, 235 mm long and with between centres J, K and M = 170 mm, is: **KTA1250ER42**, A = 235, J = 170, K = 170 and M = 170.

— Rating

ERe1, ERe2 - Straight feed units



KTA

| Туре | Position of | Cat. no. | | |
|-----------------|-------------|-------------|-----------------|-----------------|
| | neutral | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1 |
| Fixed | N1 | KTAeeeeER31 | KTA | KTAeeeeER51 |
| Made to measure | N2 | KTAeeeeER32 | KTA | KTAeeeER52 |

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ER4• by KTA2500ER6• and KTA3200ER4• by KTA3200ER6•.

These end feed units are supplied with a connection kit to create a PEN if needed.

4

800

55

J+100

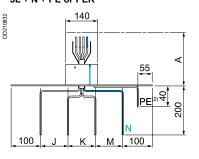
PE⁽²⁾

KTA••••ER•1, KTA••••ER•2 3L + N + PE or PER

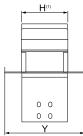
3L + PE

100

DB429068



140



(1) See the "Trunking cross-section" table in the following page.

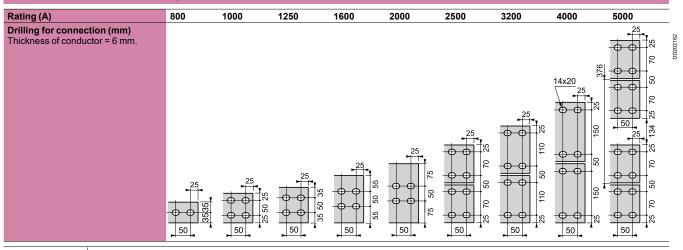
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.

Table of dimensions

| Rating (A) | Neutral | Dimensions (mm) | | | | |
|-----------------------|---------|-----------------|-----------|-----|--|--|
| | | Α | J, K, M | Y | | |
| 800 ⁽³⁾ to | N1 | 235 | 115 | 230 | | |
| 1250 | N2 | 235 to 734 | 80 to 250 | 230 | | |
| 1600 to | N1 | 235 | 115 | 350 | | |
| 2500 | N2 | 235 to 734 | 80 to 250 | 350 | | |
| 3200 to | N1 | 235 | 115 | 510 | | |
| 4000 | N2 | 235 to 734 | 80 to 250 | 510 | | |

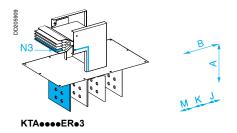
(3) For the 800 A rating, indicate "KTA0800".

Dimensions of connection pads



Canalis KTA 800 to 4000

ER•3, ER•4 - Flat elbow feed units



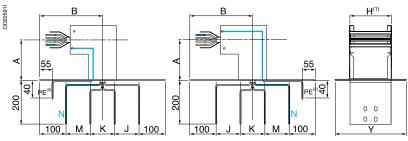
D20591C KM

KTA

| Туре | Position of | Cat. no. | | |
|-----------------|-------------|----------|-----------------|------------------|
| | neutral | 3L + PE | 3L + N + PE (2) | 3L + N + PER (1) |
| Made to measure | N3 | KTA | KTA | KTA•••ER53 |
| | N4 | KTA | KTA | KTA |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ER5• by KTA••••ER7•.
 (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ER4• by KTA2500ER6•.

KTAeeeeERe3⁽³⁾, 3L + N + PE or PER KTAeeeeERe4⁽³⁾, 3L + N + PE or PER



See the "Trunking cross-section" table below.
 PE drilled diameter = 14 mm pour cables with crimped lugs.
 3L + PE version, see page 80.

These end feed units are supplied with a connection kit to create a PEN if needed.

Tableau of dimensions

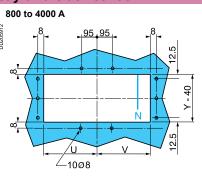
| Rating (A) | Neutral | Dimensions (mm) | | | | | |
|----------------------------|----------|-----------------|-------|-----------|-----|--|--|
| | | Α | в | J, K, M | Y | | |
| 800 ⁽⁴⁾ to 1250 | N3, N4 | 200 to 534 | 300 | 80 to 250 | 230 | | |
| 1600 to 2500 | N3, N4 | 200 to 534 | 300 | 80 to 250 | 350 | | |
| 3200 to 4000 | N3, N4 | 200 to 534 | 300 | 80 to 250 | 510 | | |
| (A) Ear the 80 | A rating | indicate "KTAC | 1900" | | | | |

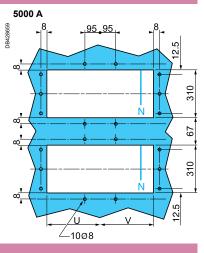
(4) For the 800 A rating, indicate "KTA0800".

Cut-out drawing for feed units placed directly on the device roof

| Table of dime | nsions | | | 800 to 4000 A |
|----------------------------|-----------|------------------|--------------|---------------|
| Rating (A) | Dimens | sions (mm) | | D205912 |
| | Y | U | V | DD20 |
| 800 ⁽¹⁾ to 1250 | 230 | K/2 + J + 80 | K/2 + M + 80 | |
| 1600 to 2500 | 350 | K/2 + J + 80 | K/2 + M + 80 | |
| 3200 to 4000 | 510 | K/2 + J + 80 | K/2 + M + 80 | |
| 5000 | 350 | K/2 + J + 80 | K/2 + M + 80 | |
| (1) For the 800 | A rating, | indicate "KTA080 | 0" . | |

For the 3L + PE version, consider M = J to calculate the Y quotation.



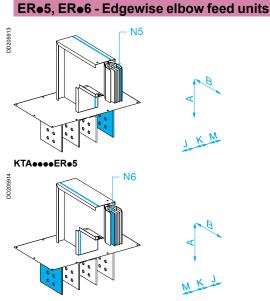


Trunking cross-section

| Weight (kg/m) 3L + PE 12 14 16 19 22 25 31 38 50 3L + N + PE 13 16 18 22 26 30 37 45 60 3L + N + PER 15 19 21 26 31 36 46 56 72 Height H (mm) Width W (mm) Image: Constraint of the state of | Rating (A) | | 800 ⁽¹⁾ | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
|--|---------------|--------------|--------------------|--------------------|------|------|------|------|----------------------|------|------|
| 3L + N + PER 15 19 21 26 31 36 46 56 72 Height H (mm) Width W (mm) Image: State of the st | Weight (kg/m) | 3L + PE | 12 | 14 | 16 | 19 | 22 | 25 | 31 | 38 | 50 |
| Height H (mm) Midth W (mm) 24 24 24 24 24 24 24 24 24 24 | | 3L + N + PE | 13 | 16 | 18 | 22 | 26 | 30 | 37 | 45 | 60 |
| | | 3L + N + PER | 15 | 19 | 21 | 26 | 31 | 36 | 46 | 56 | 72 |
| (1) Important: for the 800 A rating, indicate "KTA0800". | | | | <u>ب الللب ج ۲</u> | | | | | _∎_ _140_ | | |

Feed units for switchboards and oil immersed transformers IP55

Canalis KTA 800 to 4000



KTA

Туре Position of Cat. no. neutral 3L + PE 3L + N + PE (2) 3L + N + PER (1) Made to measure N5 KTA KTAeeeER45 KTA N6 KTAeeeER36 KTA KTA (1) To order the 3L+N+PER version with reinforced lsc, replace KTA $\bullet \bullet \bullet eR5$ by KTA $\bullet \bullet \bullet eR7$. (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ER4 \bullet by KTA2500ER6 \bullet and KTA3200ER4 \bullet by KTA3200ER6 \bullet . KTAeeeeERe5⁽³⁾, 3L + N + PE or PER KTAeeeeERe6⁽³⁾, 3L + N + PE or PER

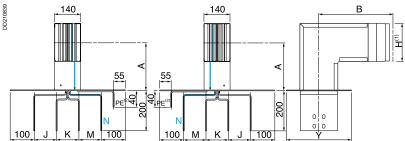


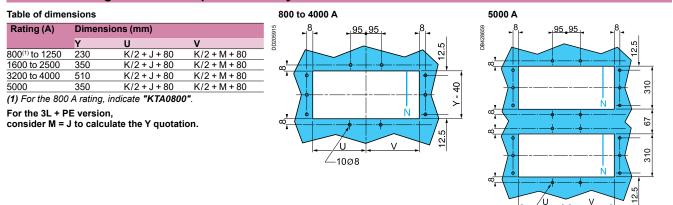
Table of dimensions

| Rating | Neutral | Dimension | s (mm) | | | | |
|--------|---------|------------|--------|-----------|-----|--|--|
| (A) | | Α | в | J, K, M | Y | | |
| 800(4) | N5, N6 | 175 to 509 | 275 | 80 to 250 | 230 | | |
| 1000 | N5, N6 | 190 to 524 | 290 | 80 to 250 | 230 | | |
| 1250 | N5, N6 | 200 to 534 | 300 | 80 to 250 | 230 | | |
| 1600 | N5, N6 | 220 to 554 | 320 | 80 to 250 | 350 | | |
| 2000 | N5, N6 | 240 to 574 | 340 | 80 to 250 | 350 | | |
| 2500 | N5, N6 | 260 to 594 | 360 | 80 to 250 | 350 | | |
| 3200 | N5, N6 | 300 to 634 | 400 | 80 to 250 | 510 | | |
| 4000 | N5, N6 | 340 to 674 | 440 | 80 to 250 | 510 | | |
| | | | | | | | |

 See the "Trunking crosssection" table opposite.
 PE drilled diameter = 14 mm pour cables with crimped lugs.
 3 L + PE version, see page 80.
 For the 800 A rating, indicate "KTA0800".

∠10ø8

Cut-out drawing for feed units placed directly on the device

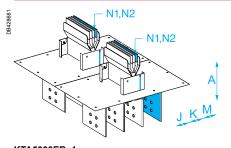


Dimensions of connection pads

| Rating (A) | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
|--|-----|------|------|------|------|------|------|------|------|
| Drilling for connection (mm) Thickness of conductor = 6 mm. | | | | | | | | | |

Canalis KTA 5000

ERe1, ERe2 - Straight feed units

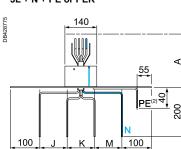


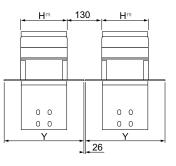
KTA5000ER•1 KTA5000ER•2

| Туре | Position of | Cat. no. | | |
|-----------------|-------------|-------------|-------------|------------------|
| | neutral | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Fixed | N1 | KTA5000ER31 | KTA5000ER41 | KTA5000ER51 |
| Made to measure | N2 | KTA5000ER32 | KTA5000ER42 | KTA5000ER52 |

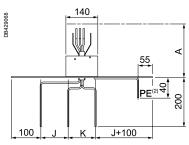
(1) To order the 3L+N+PER version with reinforced lcc, replace KTA5000ER5• by KTA5000ER7•.

KTA5000ER●1, KTA5000ER●2 3L + N + PE or PER









(1) See the "Trunking cross-section" table page 86.(2) PE drilled diameter = 14 mm pour cables with crimped lugs.

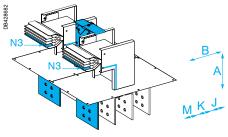
Table of dimensions

| Rating (A) | Neutral | Dimensions (mm) | | | |
|------------|---------|-----------------|-----------|-----|--|
| | | Α | J, K, M | Y | |
| 5000 | N1 | 235 | 115 | 350 | |
| | N2 | 235 to 734 | 80 to 250 | 350 | |

Feed units for switchboards and oil immersed transformers IP55

Canalis KTA 5000

ER•3, ER•4 - Flat elbow feed units



KTA5000ER•3

 Type
 Position of neutral
 Cat. no. 3L + PE
 3L + N + PE
 3L + N + PER⁽¹⁾

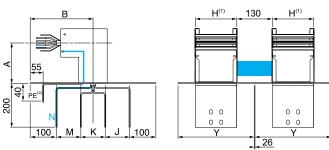
 Made to measure
 N3
 KTA5000ER33
 KTA5000ER43
 KTA5000ER53

 N4
 KTA5000ER34
 KTA5000ER44
 KTA5000ER54

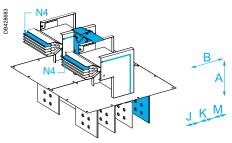
(1) To order the 3L+N+PER version with reinforced lcc, replace KTA5000ER5• by KTA5000ER7•.

KTA5000ER•3 (3), 3L + N + PE or PER

DB428776



KTA5000ER•4 ⁽³⁾, 3L + N + PE or PER



KTA5000ERe4

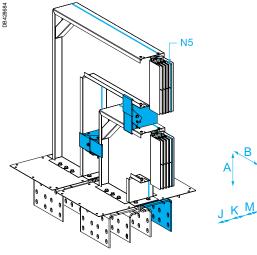
(1) See the "Trunking cross-section" table page 86.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.
(3) 3L + PE version, see page 80.

Tableau of dimensions

| Rating (A) | Neutral | Dimensions (mm) | | | | | |
|------------|---------|-----------------|-----|-----------|-----|--|--|
| | | Α | в | J, K, M | Y | | |
| 5000 | N3, N4 | 200 to 534 | 300 | 80 to 250 | 350 | | |

Canalis KTA 5000

ER•5, ER•6 - Edgewise elbow feed units

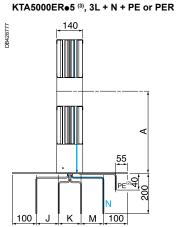


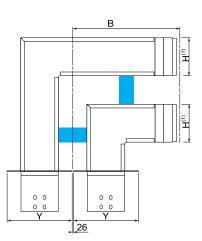
KTA5000ER•5

Position of Cat. no. Туре neutral 3L + PE 3L + N + PE 3L + N + PER (1)
 KTA5000ER35
 KTA5000ER45

 KTA5000ER36
 KTA5000ER46
 KTA5000ER55 KTA5000ER56 Made to measure N5 N6 (1) To order the 3L+N+PER version with reinforced Icc, replace KTA5000ER5• by

KTA5000ER7.

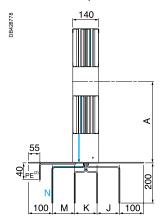




DB428685 N6 JKM

KTA5000ER•6

KTA5000ER•6 (3), 3L + N + PE or PER



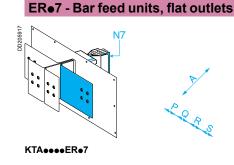
 (1) See the "Trunking cross-section" table page 86.
 (2) PE drilled diameter = 14 mm pour cables with crimped lugs. (3) 3L + PE version, see page 80.

Table of dimensions

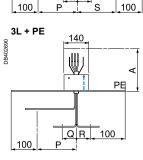
| Rating (A) | Neutral | Dimensions (mm) | | | | | |
|------------|---------|-----------------|-----|-----------|-----|--|--|
| | | Α | в | J, K, M | Y | | |
| 5000 | N3, N4 | 448 to 782 | 548 | 80 to 250 | 350 | | |

Feed units for switchboards and oil immersed transformers **IP55**

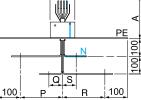
Canalis KTA 800 to 4000



| Туре | | Cat. no. (3) | | |
|------------|----------------------|---|--------------------|------------------|
| | | 3L + PE | 3L + N + PE (2) | 3L + N + PER (|
| Made to | neasure | KTA | KTA | KTAeeeER5 |
| | er the 3L+N+PER vers | sion with reinforced lsc | , replace KTA••••E | R57 by |
| KTA | | | | |
| | er the 3L+N+PE 2500. | | | replace |
| | ER4• by KTA2500ER6 | ● and KTA3200ER4● I | by KTA3200ER6•. | |
| (3) Not av | ailable for KTA5000. | | | |
| Connectio | n pad dimensions are | identical to those of th | e feed units | |
| | | | | |
| KTA | ERe7 | | | |
| | PE or PER | | | |
| | EONTER | | | |
| | 140 | · | 140_ | H ⁽¹⁾ |
| | | - | - | _ <u> </u> |
| | | | | T 14 |
| | 10001 | <u>+</u> | 0001 | f |
| | | | | |
| | , W | | | |
| | PE | | ₩ ⊲ PE | |
| | | | | |
| | PE | | | |



QR.





(1) See the "Trunking cross-section" table below.

Table of dimensions

| Rating (A) | Dimension | Dimensions (mm) | | | | |
|----------------------------|---|-----------------|----------------|-----------------|-----|--|
| | Α | P - Q | S - R or R - S | Q, R, S minimum | Y | |
| 800 ⁽²⁾ to 1250 | 235 to 734 | 160 to 600 | 160 to 600 | 80 | 230 | |
| 1600 to 2500 | 235 to 734 | 160 to 600 | 160 to 600 | 80 | 350 | |
| 3200 to 4000 | 235 to 734 | 160 to 600 | 160 to 600 | 80 | 510 | |
| (2) For the 800 | (2) For the 800 A rating, indicate "KTA0800" . | | | | | |

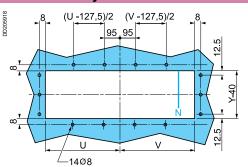
Cut-out drawing for straight feed units connected directly to the device

| Table of dimensions | | | | | | | |
|----------------------------|-------|------------|----------------------|--|--|--|--|
| Rating (A) | Dimen | sions (mm) | | | | | |
| | Y | U | V | | | | |
| 800 ⁽¹⁾ to 1250 | 230 | | if S > R, V = S + 80 | | | | |
| 1600 to 2500 | 350 | U = P + 80 | if R > S. V = R + 80 | | | | |
| 3200 to 4000 | 510 | | II K > 5, V = K + 60 | | | | |

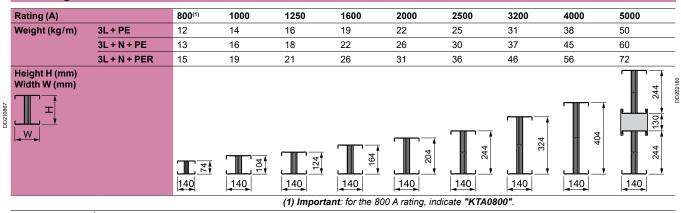
(1) For the 800 A rating, indicate "KTA0800".

For the 3L + PE version,

consider S = 0 to calculate the V quotation.



Trunking cross-section



Life Is On Schneider 87

Rigid protective covers IP55

Canalis KTA 800 to 5000

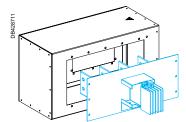
Ordering

To order a protective cover onto which a feed connector is fitted, the parameters D, G and Z, which depend on the feed connector, must be given.

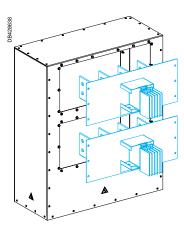
Example: the catalogue number of a rigid vertical protective cover with dimension Y = 350 mm intended for a feed unit with different between centre dimensions D, G and Z (in mm) is:

KTB0350CR2, D = 330, G = 450 and Z = 500.

CR1 - Rigid horizontal protective covers for feed units ER N1 to N7



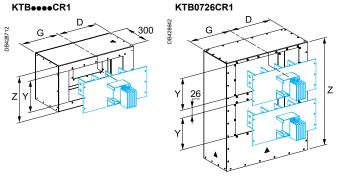
KTBeeeCR1



KTB0726CR1

Important : when ordering a horizontal cover, make sure you indicate dimensions "D, G and Z" with the catalogue number.

| Rating (A) | Dimensions "Y" (mm) | Cat. no. | Weight (kg) |
|--------------|---------------------|------------|-------------|
| 800 to 1250 | 230 | KTB0230CR1 | 12.00 |
| 1600 to 2500 | 350 | KTB0350CR1 | 12.00 |
| 3200 to 4000 | 510 | KTB0510CR1 | 12.00 |
| 5000 | 350 | KTB0726CR1 | 60.00 |



Protective cover for ER N1 to N6 straight end feed connectors

Dimensions D and G are determined by the between centres dimensions (J, K and M) of the end feed connector bars to be protected.

The position of the neutral on the feed connector also determines the rule to be used for calculating parameters ${\bf D}$ and ${\bf G}.$

If the feed connector comes into the cover with the neutral on the right: $\mathbf{D} = \mathbf{K}/2 + \mathbf{M} + 100$ $\mathbf{G} = \mathbf{K}/2 + \mathbf{J} + 100$

If the feed connector comes into the cover with the neutral on the left: ${\bf D}$ = K/2 + J + 100 ${\bf G}$ = K/2 + M + 100

For the 3L + PE version, consider M = J to calculate the D and G quotations.

Table of dimensions

| Rating (A) | Dimensior | Dimensions (mm) | | | | | | |
|--------------|-----------|-----------------|------------|-------------|--|--|--|--|
| | Y | D | G | Z | | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 310 to 800 | | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 430 to 800 | | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 590 to 800 | | | | |
| 5000 | 726 | 220 to 475 | 220 to 475 | 790 to 1200 | | | | |

Protective cover for ER N7 straight end feed connectors

Dimensions **D** and **G** are determined by the between centres dimensions (P, Q, R and S) of the end feed connector bars to be protected.

Position of the neutral on the feed connector also determines the rule to be used for calculating parameters ${\bf D}$ and ${\bf G}$.

If the feed connector comes into the cover with the neutral on the right:

D = max(R; S) + 100

G = max(P; Q) + 100

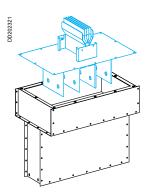
If the feed connector comes into the cover with the neutral on the left: D = max(P; Q) + 100G = max(R; S) + 100

For the 3L + PE version, consider S = 0 to calculate the D and G quotations.

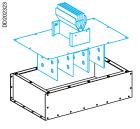
Table of dimensions

| Rating (A) | Dimensions (mm) | | | | |
|--------------|-----------------|-------------|-------------|------------|--|
| | Y | D | G | Z | |
| 800 to 1250 | 230 | 340 to 1000 | 340 to 1000 | 310 to 800 | |
| 1600 to 2500 | 350 | 340 to 1000 | 340 to 1000 | 430 to 800 | |
| 3200 to 4000 | 510 | 340 to 1000 | 340 to 1000 | 590 to 800 | |

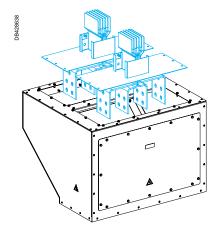
CR2, CR3 - Rigid vertical protective covers for feed units ER N1 to N7



KTBeeeeCR2



KTBeeeCR3



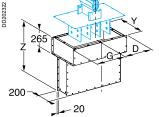
KTB0726CR3

Important: when ordering a vertical cover, make sure you indicate dimensions "D, G and Z" with the catalogue number.

400 to 800 mm high covers

| Rating (A) | Dimensions "Y" (mm) | Cat. no. | Weight (kg) |
|--------------|---------------------|------------|-------------|
| 800 to 1250 | 230 | KTB0230CR2 | 40.00 |
| 1600 to 2500 | 350 | KTB0350CR2 | 40.00 |
| 3200 to 4000 | 510 | KTB0510CR2 | 40.00 |

KTBeeeeCR2



Dimensions **D** and **G** are determined by the between centres dimensions (J, K and M) of the end feed connector bars to be protected. $\mathbf{D} = \mathbf{K}/2 + \mathbf{J} + 100$ $\mathbf{G} = \mathbf{K}/2 + \mathbf{M} + 100$

For the 3L + PE version, consider M = J to calculate the D and G quotations.

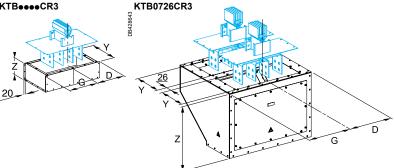
Table of dimensions for ER N1 to N6 straight feed units

| Rating (A) | Dimensio | Dimensions (mm) | | | | | |
|--------------|----------|-----------------|------------|------------|--|--|--|
| | Y | Y D G Z | | | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 400 to 800 | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 400 to 800 | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 400 to 800 | | | |

100 to 400 mm high covers

| Rating (A) | Dimensions "Y" (mm) | Cat. no. | Weight (kg) |
|--------------|---------------------|------------|-------------|
| 800 to 1250 | 230 | KTB0230CR3 | 17.00 |
| 1600 to 2500 | 350 | KTB0350CR3 | 17.00 |
| 3200 to 4000 | 510 | KTB0510CR3 | 17.00 |
| 5000 | 350 | KTB0726CB3 | 60.00 |

KTBeeeCR3



Dimensions ${\bf D}$ and ${\bf G}$ are determined by the between centres dimensions of the end feed connector bars to be protected.

Table of dimensions for ER N1 to N6 straight feed units

| Rating (A) | Dimensio | Dimensions (mm) | | | | | |
|-------------------|----------|-----------------|------------|------------|--|--|--|
| | Y | D | G | Z | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 100 to 400 | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 100 to 400 | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 100 to 400 | | | |
| 5000 | 350 | 220 to 475 | 220 to 475 | 591 to 800 | | | |
| D = K/2 + 1 + 100 | | | | | | | |

D = K/2 + J + 100 G = K/2 + M + 100 For the 3L + PE version, consider M = J to calculate the D and G quotations.

Table of dimensions for ER N7 straight feed units

| Rating (A) | Dimensions (mm) | | | | | |
|--------------|--------------------------------------|------------|------------|------------|--|--|
| | Y | D | G | Z | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 100 to 400 | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 100 to 400 | | |
| 3200 to 4000 | 510 220 to 475 220 to 475 100 to 400 | | | | | |
| | 210 | | | | | |

 $\begin{array}{l} \textbf{D} = \max\left(P ; \mathbf{Q}\right) + 100 \\ \textbf{G} = \max\left(R ; S\right) + 100 \\ \textbf{For the 3L + PE version, consider S = 0 to calculate the D and G quotations. \end{array}$

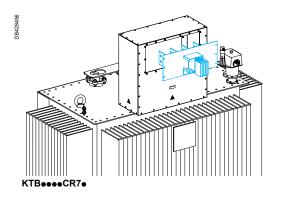
Adjustable protective covers for Minera immersed transformers IP55

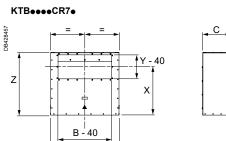
Canalis KTA 800 to 5000

CR7 - Protective covers for horizontal incomers

These covers are used to connect Canalis KT to Minera transformers. Dimensions are predefined to match with transformer ratings. Refer to the selection guide, see page 248.

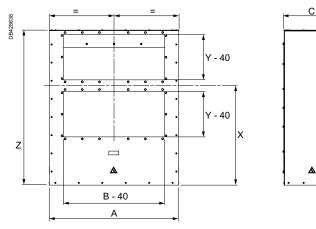
| Cat. no. | Y (mm) | Z (mm) | X (mm) | A (mm) | B (mm) | C (mm) | Weight (kg) |
|-------------|--------|--------|--------|--------|--------|--------|----------------|
| KTB0230CR71 | 230 | 450 | 320 | 780 | 650 | 256 | 30 |
| KTB0350CR71 | 350 | 510 | 320 | 780 | 650 | 256 | 30 |
| KTB0350CR72 | 350 | 540 | 350 | 780 | 650 | 256 | 30 |
| KTB0350CR73 | 350 | 590 | 400 | 855 | 710 | 276 | 30 |
| KTB0350CR74 | 350 | 590 | 400 | 855 | 710 | 359 | 30 |
| KTB0510CR71 | 510 | 705 | 435 | 855 | 710 | 276 | 30 |
| KTB0510CR72 | 510 | 740 | 470 | 855 | 710 | 359 | 30 |
| KTB0510CR73 | 510 | 780 | 510 | 855 | 710 | 359 | 30 |
| KTB0726CR71 | 350 | 1025 | 469 | 855 | 710 | 359 | 30 |





NUMERAL STREET



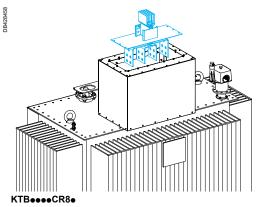


Interfaces selection guide, see page 248 and page 249

CR8 - Protective covers for vertical incomers

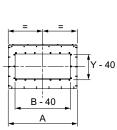
These covers are used to connect Canalis KT to Minera transformers. Dimensions are predefined to match with transformer ratings. Refer to the selection guide, page 250.

| Cat. no. | Y (mm) | Z (mm) | A (mm) | B (mm) | C (mm) | Weight (kg) |
|-------------|--------|--------|--------|--------|--------|-------------|
| KTB0230CR81 | 230 | 480 | 780 | 650 | 251 | 30 |
| KTB0350CR81 | 350 | 580 | 780 | 650 | 380 | 30 |
| KTB0350CR82 | 350 | 600 | 855 | 710 | 380 | 30 |
| KTB0350CR83 | 350 | 520 | 855 | 710 | 380 | 30 |
| KTB0510CR81 | 510 | 600 | 855 | 710 | 540 | 30 |
| KTB0510CR82 | 510 | 615 | 855 | 710 | 540 | 30 |
| KTB0726CR81 | 350 | 591 | 775 | 710 | 770 | 30 |



KTBeeeeCR8e

DB428459

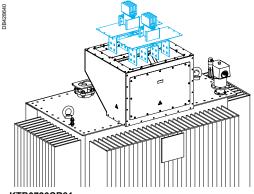


KTB0726CR81

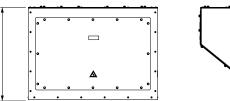
PA2RAA

Ζ

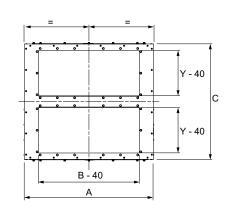




KTB0726CR81







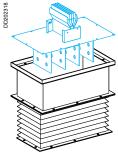
Interfaces selection guide, page 250 and page 251.

Flexible protective covers Cable boxes

IP55

Canalis KTA 800 to 4000

CS - Flexible vertical protective covers for straight feed units



KTBeeeCS0

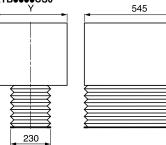
Covers for ER N1 to N7 straight feed units with between centre dimensions = 115 mm.

| Rating (A) | Dimensions "Y" (mm) | Cat. no. | Weight (kg) |
|--------------|---------------------|------------|-------------|
| 800 to 1250 | 230 | KTB0230CS0 | 15.00 |
| 1600 to 2500 | 350 | KTB0350CS0 | 17.00 |
| 3200 to 4000 | 510 | KTB0510CS0 | 19.00 |

300

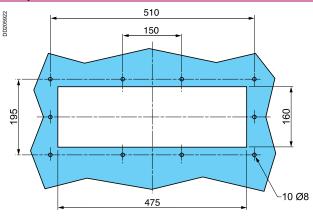
It is recommended to use insulating sheaths KTB0000YF1 with connection braids KTB0000YT1.



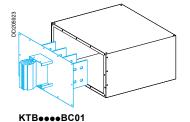


| Table of dimensions | | | | |
|---------------------|-----------------|------------|--|--|
| Rating (A) | Dimensions (mm) | | | |
| Y C | | | | |
| 800 to 1250 | 230 | 200 to 650 | | |
| 1600 to 2500 | 350 | 200 to 650 | | |
| 3200 to 4000 | 510 | 200 to 650 | | |
| | | | | |

Cut-out drawing for fixing the flexible vertical protective cover



BC - Cable boxes



 Rating (A)
 Dimensions "Y" (mm)
 Cat. no.
 Weight (kg)

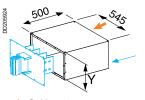
 800 to 1250
 230
 KTB0230BC01
 15.00

 1600 to 2500
 350
 KTB0350BC01
 17.00

 3200 to 4000
 510
 KTB0510BC01
 19.00

Cable boxes are only to be used on ER N1 to N6 straight feed units with standard between centre distances = 115 mm.

KTBeeeBC01



Cable entry.
 Aluminium plate to be drilled.

Table of dimensions

| Rating (A) | Dimensions (mm) |
|--------------|-----------------|
| | Y |
| 800 to 1250 | 230 |
| 1600 to 2500 | 350 |
| 3200 to 4000 | 510 |
| | |

See table page 86 for connection pad dimensions.

Life Is On Schneider 93

Feed units for dry-type transformers **IP55**

Canalis KTA 800 to 4000

Ordering

Important:

in the catalogue number for the 800 A rating, add a "0": **KTA0800**

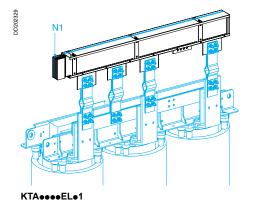
add the dimensions of the selected unit as a technical comment.

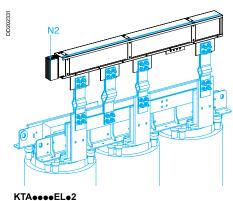
Example: the catalogue number of a 3200 A end feed unit, N2, 3L + N + PER, with a between centre distance E = 550 mm, length N = 310 mm and phase order T = 3N21 is:

KTA3200EL72, E = 550 mm, N = 310 mm and T = 3.

- Rating

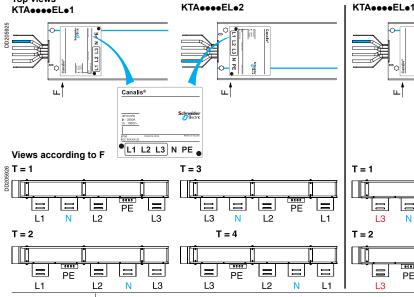
ELe1, ELe2 - N1 and N2 feed units for dry-type transformers

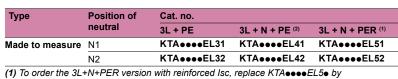




Selecting phase order T Top views

KTAeeeeELe





KTA

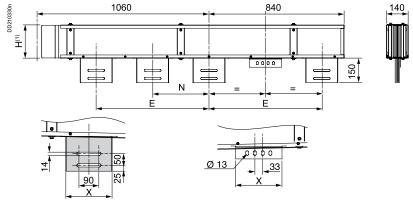
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EL4• by KTA2500EL6• and KTA3200EL4• by KTA3200EL6•.

For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 98.

For fixing supports, see KTB •••• ZA4 page 110.

These end feed units are supplied with PEN connection kit.

KTA

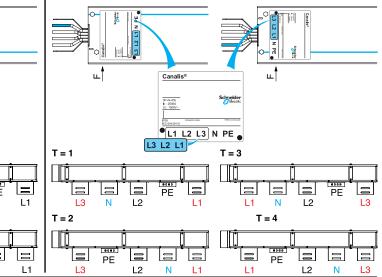


(1) See the "Trunking cross-section" table page 101.

Table of dimensions

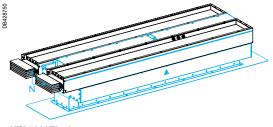
| Rating (A) | Neutral | Dimensions (mm) | | |
|--------------|---------|-----------------|----------------|-----|
| | | E | N | Х |
| 800 to 1250 | N1, N2 | 390 to 700 | 195 to E - 195 | 160 |
| 1600 to 4000 | N1, N2 | 470 to 700 | 235 to E - 235 | 200 |

KTAeeeeELe2

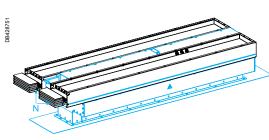


Schneider Life Is On 94

ELe1, ELe2 - Feed units for dry-type transformers



KTA5000EL•1



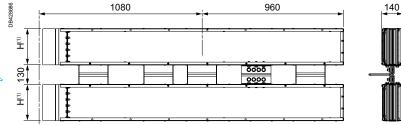
KTA5000EL•2

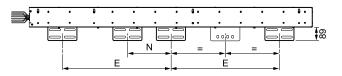
| Туре | Position of | Cat. no. | | |
|-----------------|-------------|-------------|-------------|------------------|
| | neutral | 3L + PE | 3L + N + PE | 3L + N + PER (1) |
| Made to measure | N1 | KTA5000EL31 | KTA5000EL41 | KTA5000EL51 |
| | N2 | KTA5000EL32 | KTA5000EL42 | KTA5000EL52 |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000EL5• by KTA5000EL7.

For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 98. For fixing supports, see KTBeeeeZA4 page 110.

KTA5000EL•1, KTA5000EL•2



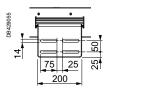


000

oddo

33

x



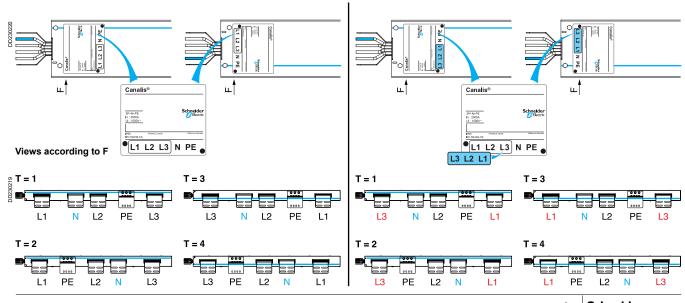
(1) See the "Trunking cross-section" table page 101.

Table of dimensions

| Rating (A) | Neutral | Dimensions (mm) | | |
|------------|---------|-----------------|----------------|-----|
| | | E | Ν | Х |
| 5000 | N1, N2 | 470 to 736 | 235 to E - 235 | 200 |

<u>Ø 13</u>





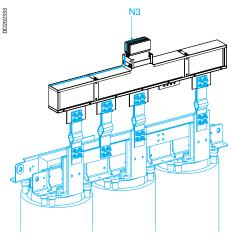
Schneider Belectric Life Is On 95

Feed units for dry-type transformers

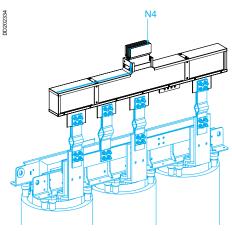
IP55

Canalis KTA 800 to 4000

ELe3, ELe4 - N3 and N4 feed units for dry-type transformers



KTAeeeeELe3



KTA

Position of Туре Cat. no. neutral 3L + PE 3L + N + PE (2) 3L + N + PER (1) N3 KTAeeeeEL33 KTA•••EL43 KTAeeeeEL53 Made to measure KTA•••EL34 KTA•••EL44 KTA N4

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EL4• by KTA2500EL6• and KTA3200EL4• by KTA3200EL6•.

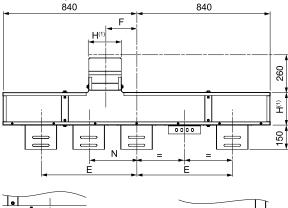
For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 98.

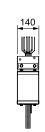
For fixing supports, see KTBeeeeZA4 page 110.

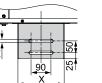
These end feed units are supplied with PEN connection kit.

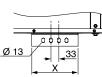
KTA••••EL•3, KTA••••EL•4

D210335





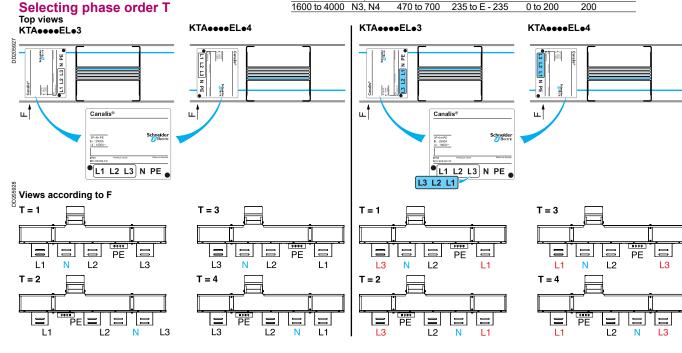




(1) See the "Trunking cross-section" table page 101.

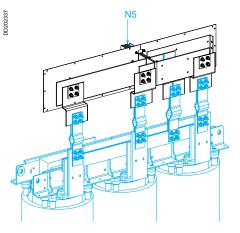
Table of dimensions

| Rating | Neutral | Dimensions (mm) | | | | |
|--------------|---------|-----------------|----------------|----------|-----|--|
| (A) | | E | N | F | Х | |
| 800 to 1250 | N3, N4 | 390 to 700 | 195 to E - 195 | 0 to 200 | 160 | |
| 1600 to 4000 | N3, N4 | 470 to 700 | 235 to E - 235 | 0 to 200 | 200 | |

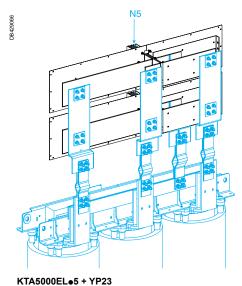


Canalis KTA 800 to 5000

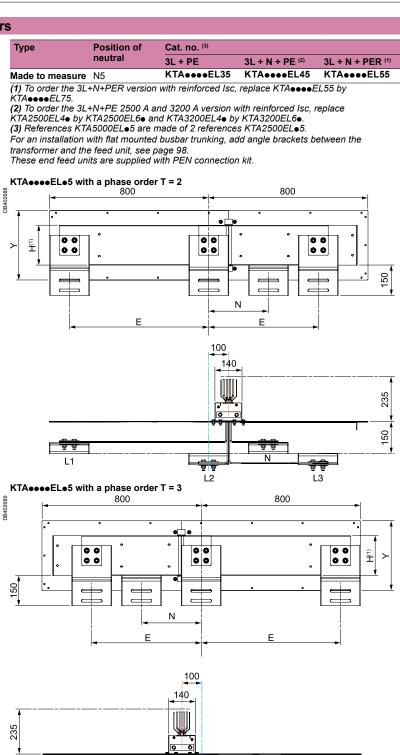
EL•5 - Feed units for dry-type transformers

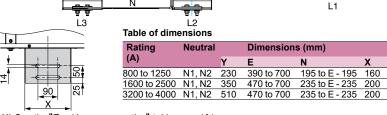


KTAeeeeELe5



For YP23 see page 108.





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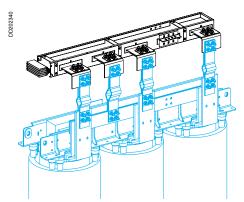
(1) See the "Trunking cross-section" table page 101. Important : the above designs and markings correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse markings L1 and L3 on the transformer side.

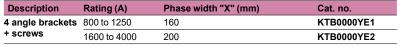
Feed units for dry-type transformers

IP55

Canalis KTA 800 to 4000

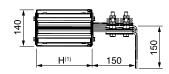
YE - Angle brackets for installing N1 to N5 feed units flat

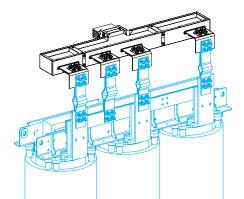


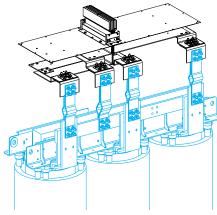


KTB0000YE1, KTB0000YE2









KTB0000YE1, KTB0000YE2

Protective covers for dry-type transformers

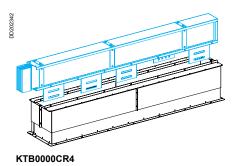
IP55

Canalis KTA 800 to 4000

Ordering

There is no need to add technical comments to the catalogue number ordered.

CR4 - Adjustable vertical protective covers for EL, N1 to N4 feed units, edgewise mounting



 Type
 Position of neutral
 Cat. no.
 Weight (kg)

 Vertical cover
 N1, N2, N3 and N4
 KTB0000CR4
 24.00

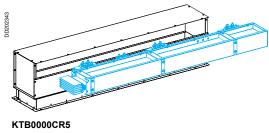
 KTB0000CR4
 Vertical cover
 00
 00

 Image: state state

Table of dimensions

| Rating (A) | Dimensions (mm) | | | |
|--------------|-----------------|---------|--|--|
| | Z Minimum | Maximum | | |
| 800 to 1250 | 200 | 350 | | |
| 1600 to 2500 | 200 | 350 | | |
| 3200 to 4000 | 200 | 350 | | |

CR5 - Adjustable horizontal protective covers for EL, N1 to N4 feed units, flat mounting



| Туре | Position of neutral | Cat. no. | Weight (kg) |
|------------------|---------------------|------------|-------------|
| Horizontal cover | N1, N2, N3 and N4 | KTB0000CR5 | 32.00 |
| KTB0000CR5 | | | |
| 0 | | | 140 |
| • | | | ° N |
| • | | | ^ |
| <u> </u> | • • • • | • • • | , |
| | 1690 | | |



Table of dimensions

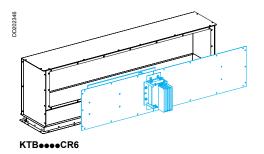
| Rating (A) | Dimensions (mm) | | |
|--------------|-----------------|---------|--|
| | Z Minimum | Maximum | |
| 800 to 1250 | 330 | 480 | |
| 1600 to 2500 | 330 | 480 | |
| 3200 to 4000 | 330 | 480 | |

Protective covers for dry-type transformers

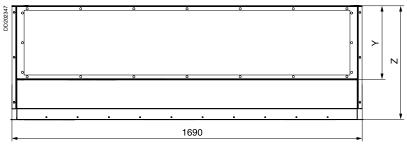
IP55

Canalis KTA 800 to 4000

CR6 - Horizontal protective covers for dry-type transformer N5 feed units



| Туре | Position of neutral | Dimension "Y" (mm) | Cat. no. | Weight (kg) |
|---------------------------------------|---------------------|-----------------------|------------|-------------|
| Horizontal covers | N5 | 230 | KTB0230CR6 | 38.00 |
| | | 350 | KTB0350CR6 | 40.00 |
| | | 510 | KTB0510CR6 | 47.00 |
| KTBeeeCR6 | | | | |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | o o | ò | Ŏ | |



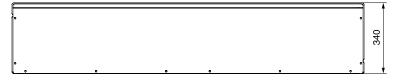
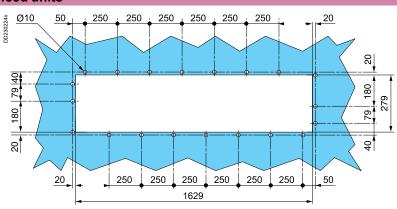


Table of dimensions

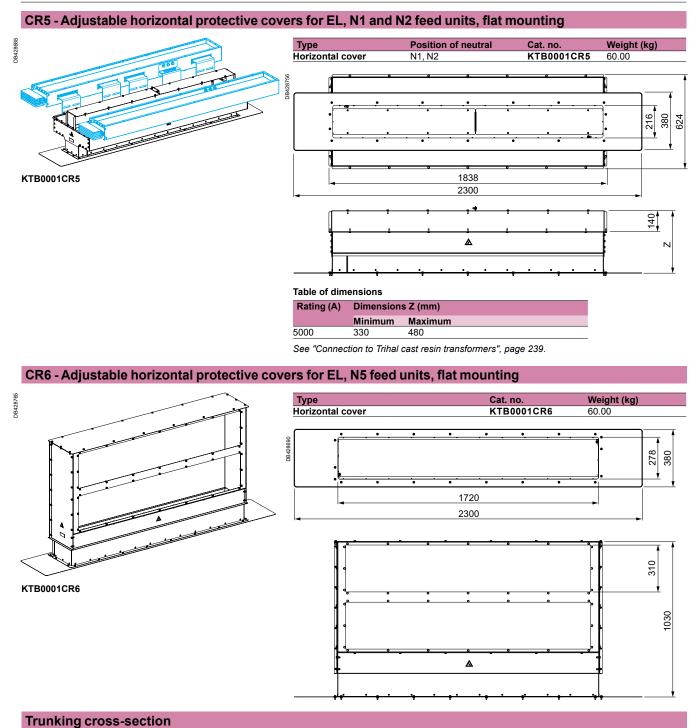
| Rating (A) | Dimensions (mm) | | | | |
|--------------|-----------------|--------------|---------|--|--|
| | Y | Z Minimum | Maximum | | |
| 800 to 1250 | 230 | 380 | 530 | | |
| 1600 to 2500 | 350 | 500 | 650 | | |
| 3200 to 4000 | 510 | 660 | 810 | | |

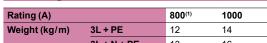
Cut-out drawing for dry-type transformer feed units

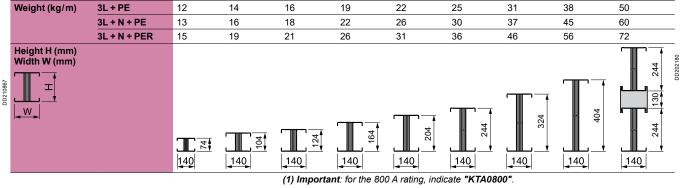


View from the top of the transformer.

Canalis KTA 5000







Connection accessories

Canalis KTA 800 to 5000

Ordering

To order YC1 or YC3 flexibles with customized drilled holes at the bottom. **Example:** total length = 565 mm with a pattern of 4 centred holes 50x50 at 25 mm of the bottom.

KTB0100YC305B, L=565, A=50, B=25, C=25, D=50, E=2, F=2, Y=25.

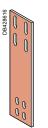
To order flexibles without drilled holes at the bottom. Example: total length = 435 mm. KTB0100YC305B, L=435, E=0, F=0, Y=25.

In all cases E, F and Y need to be filled.

YC1 - Connection plates

| Туре | Surface treatment | "Width (mm) W" | "Depth (mm) T" | "Length (mm) L" | Cross-section (mm ²) | Cat. no. | Weight (kg) |
|---------|--------------------|----------------|----------------|-----------------|----------------------------------|---------------|-------------|
| Made to | Bi-metal aluminium | 100 | 7 | 300 to 600 | 700 ⁽¹⁾ | KTB0100YC107A | 1.6 |
| measure | copper | 120 | 7 | 300 to 600 | 840(1) | KTB0120YC107A | 1.9 |
| | Bare copper | 100 | 5 | 300 to 600 | 500(2) | KTB0100YC105B | 2.7 |
| | | 120 | 5 | 300 to 600 | 600 ⁽²⁾ | KTB0120YC105B | 3.2 |

(1) Made of 5 sheets of 1.4 mm (16 % CU, 84 % AL). (2) Made of 5 sheets 1 mm (100 % CU).



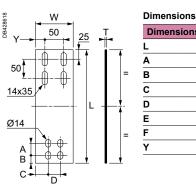
Bi-metal

KTB01•0YC107A

aluminium copper



KTB01e0YC105B Bare copper



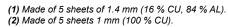
Dimensions (mm)

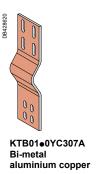
 E = number of vertical holes (bottom pattern)
 F = number of horizontal holes (bottom pattern)

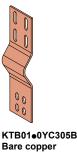
YC3 - Connection flexible links with onde

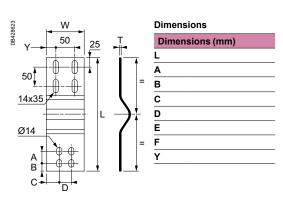
B42862

| Туре | Surface treatment | "Width (mm) W" | "Depth (mm) T" | "Length (mm) L" | Cross-section (mm ²) | Cat. no. | Weight (kg) |
|---------|--------------------|----------------|----------------|-----------------|-------------------------------------|---------------|-------------|
| Made to | Bi-metal aluminium | 100 | 7 | 300 to 600 | 700(1) | KTB0100YC307A | 1.6 |
| measure | copper | 120 | 7 | 300 to 600 | 840(1) | KTB0120YC307A | 1.9 |
| | Bare copper | 100 | 5 | 300 to 600 | 500 ⁽²⁾ | KTB0100YC305B | 2.7 |
| | | 120 | 5 | 300 to 600 | 600(2) | KTB0120YC305B | 3.2 |









 E = number of vertical holes (bottom pattern)
 F = number of horizontal holes (bottom pattern)

Connection selection guide, see page 248 and page 250

Canalis KTA 800 to 5000

YC5 - Connection insulated

| Туре | Surface treatment | "Width (mm) W" | "Depth (mm) T" | "Length (mm) L" | Cross-section (mm ²) | Cat. no. | Weight (kg) |
|-----------|--------------------|----------------|----------------|-----------------|----------------------------------|-----------------|-------------|
| Fixed, | Bi-metal aluminium | 100 | 7 | 1000 | 700(1) | KTB0100YC50710A | 2.6 |
| insulated | copper | 100 | 7 | 600 | 700(1) | KTB0100YC50706A | 1.6 |
| | Bare copper | 100 | 5 | 1000 | 500 ⁽²⁾ | KTB0100YC50510B | 4.5 |
| | | 100 | 5 | 600 | 500 ⁽²⁾ | KTB0100YC50506B | 2.7 |

W

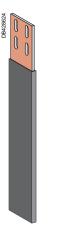
50

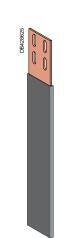
(1) Made of 5 sheets of 1.4 mm (16 % CU, 84 % AL). (2) Made of 5 sheets 1 mm (100 % CU).

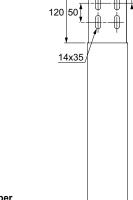
25

L

Т







Db428627

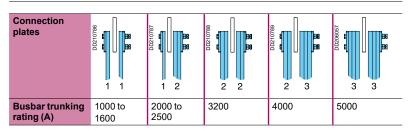
KTB0100YC507●●A Insulated, bi-metal aluminium copper

KTB0100YC505.0B Insulated, bare copper



Determining the number of connection plates required

| Busbar trunking rating (A) | Bare copper connection plates per phase | | |
|----------------------------|---|----------------------------|--|
| | Number (2) | Section (mm ²) | |
| 1000 | 2 (100 x 5) | 1000 | |
| 1250 | 2 (100 x 5) | 1000 | |
| 1600 | 2 (100 x 5) | 1000 | |
| 2000 | 3 (100 x 5) | 1500 | |
| 2500 | 3 (100 x 5) | 1500 | |
| 3200 | 4 (100 x 5) | 2000 | |
| 4000 | 5 (100 x 5) | 2500 | |
| 5000 | 6 (120 x 5) | 3600 | |



(2) The number of bi-metal alumunium copper connections per phase is the same as bare copper ones. Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bi-metal aluminium copper.

Connection accessories

Canalis KTA 800 to 5000

YT - Braids



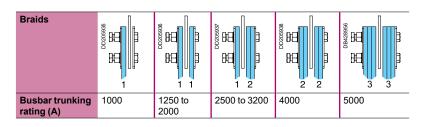
KTB0000YT1

Description Cat. no. Weight (kg) **Connection braid** KTB0000YT1 2.80 KTB0000YT1 100 <u>Ø14</u> 50 đ 0 ф 100 50 0 0 400

Determining the number of braids required

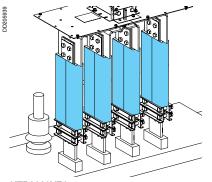
D2023

| Busbar trunking rating (A) | Braids per phase | | |
|----------------------------|------------------|----------------------------------|--|
| | Number | Cross-section (mm ²) | |
| 1000 | 1 | 600 | |
| 1250 | 2 | 1200 | |
| 1600 | 2 | 1200 | |
| 2000 | 2 | 1200 | |
| 2500 | 3 | 1800 | |
| 3200 | 3 | 1800 | |
| 4000 | 4 | 2400 | |
| 5000 | 6 | 3600 | |



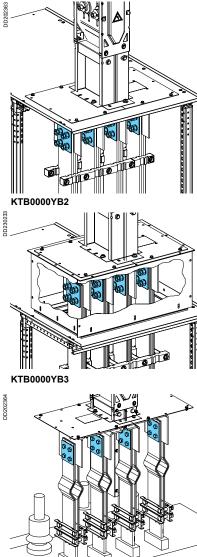
Canalis KTA 800 to 5000

YF - Insulating sheaths



KTB0000YF1

YB - Spacers and bolts



KTB0000YB4



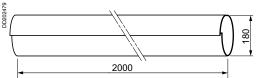
The YF conduit allows the various conductors of a connection performed with braids or with bare copper foils to be insulated.

Installation is performed after complete assembly of the connection, with scratch fastening for easier setup. The insulating conduit is formed of a 2-metre plastic duct that can be cut to length

as needed.

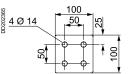
| Désignat | tion | Cat. no. | Weight (kg) |
|------------|----------|------------|-------------|
| Insulating | a sheath | KTB0000YF1 | 1.00 |

KTB0000YF1

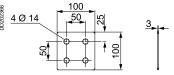


| Description | | Cat. no. | Weight (kg) | |
|--|---|------------|----------------|--|
| Connection torque nut kit | 1 torque nut + 2 flat washers (Ø 60) + 1 elastic washer (Ø 55) | KTB0000YB1 | - | |
| Spacers for direct connection | 8 x 3 mm galvanized steel spacers + 8 x 2 mm copper spacers + 16 x M12 x 60 bolts + washers and nuts | KTB0000YB2 | 5.50 | |
| Spacer plates for connector plate connections | 8 x 3 mm galvanized steel plates + 16 x M12 x 60 bolts + washers and nuts | KTB0000YB3 | 4.00 | |
| | 8 x 3 mm galvanized steel plates + 16 x M12 X 80 bolts + washers and nuts | KTB0000YB4 | 4.00 | |
| Set of bolts | 16 x M10 x 60 bolts + washers and nuts | KTB0000YB5 | 2.00 | |

Copper spacer



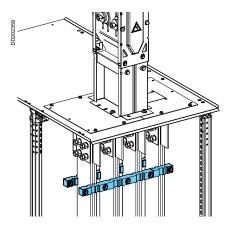
Galvanized steel spacer plates

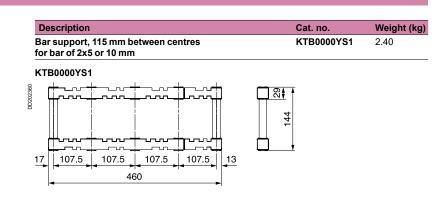


Connection accessories

Canalis KTA 800 to 5000

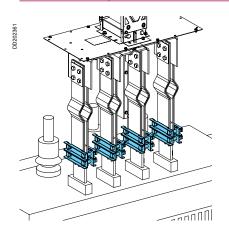
YS - Bar supports





KTB0000YS1

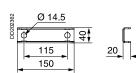
YS - Bar clamps



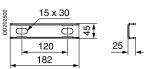
| Description | | Dimensions of transformer Cat. no. connection terminals (mm) | |
|--------------|-----|---|------|
| 8 bar clamps | 100 | KTB0000YS2 | 6.40 |
| | 120 | KTB0000YS3 | 6.40 |

Each bar clamp includes 2 cross members and associated fixings.

KTB0000YS2







KTB0000YS.

YP1 - Connection plate for oil immersed Minera transformer

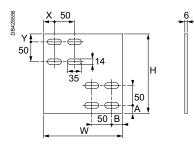


KTB0000YP1

Type YP1

Plates for Minera oil transformer, connection from the top. The product reference is for one phase. Bolts at the equipments level are not included in the reference. See selection table page 251.

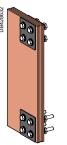
| A (mm) | B (mm) | H (mm) | W (mm) | X (mm) | Y (mm) | Cat. no. | Weight (kg) |
|--------|--------|--------|--------|--------|--------|-------------|-------------|
| 20 | 28 | 200 | 200 | 28 | 20 | KTB0000YP11 | 2.1 |
| 20 | 38 | 200 | 200 | 38 | 20 | KTB0000YP12 | 2.1 |
| 20 | 28 | 200 | 260 | 28 | 20 | KTB0000YP13 | 2.8 |
| 25 | 25 | 200 | 200 | 25 | 21 | KTB0000YP14 | 2.1 |



Connection selection guide, see page 248 and page 250

Canalis KTA 5000

YP2 - Connection plates for KTA5000 end feed units



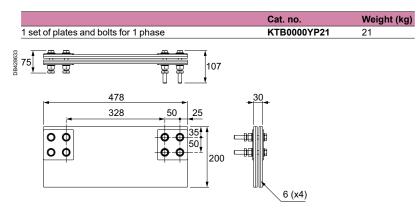
KTB0000YP21

Type YP21 for ER1 to ER6 horizontal incomer

Plates to link connection pads of 2 end feed units KTA2500 (ER1 to ER6) in order to create a KTA5000.

Link to transformer or switchboard has to be connected at the lowest 4 bolts system. The product reference is for one phase and includes screws, nuts and washers at the busbar trunking side.

Bolts at the transformer or switchboard level are not included in the reference.



Type YP22 for ER1 to ER6 vertical incomer

Plates to link connection pads of 2 end feed units KTA2500 (ER1 to ER6) in order to create a KTA5000. The product reference is for one phase and includes screws, nuts and washers at the busbar

trunking side.

Bolts at the transformer or switchboard level are not included in the reference.

| | Cat. no. | Weight (kg) |
|--|-------------|-------------|
| 1 set of plates and bolts for 1 phase | KTB0000YP22 | 24.5 |
| 25 50 328 50 60 435 50 215 50 50 50 50 50 50 50 50 50 5 | | |
| | | |

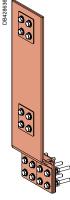


KTB0000YP22

Connection accessories

Canalis KTA 5000

YP2 - Plates for KTA5000 end feed units

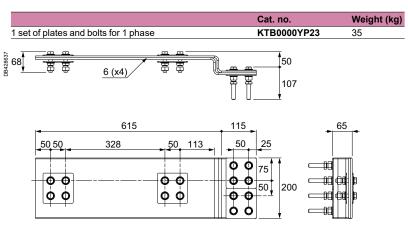


KTB0000YP23

Type YP23 for EL5 horizontal incomer

Plates to link connection pads of 2 end feed units KTA2500 EL5 in order to create a KTA5000. The product reference is for one phase and includes screws, nuts and washers at the busbar trunking side.

Bolts at the transformer or switchboard level are not included in the reference.



KTB0000YP24

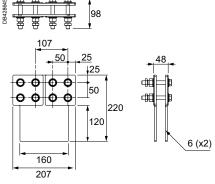
Type YP24 for EL1 and EL2 dry transformer flexible links

Plates to link bottom sides of 2 sets of flexibles in order to a create a single plate at transformer side.

The product reference is for one phase and includes screws, nuts and washers at the busbar trunking side.

Drillings and bolts at the dry transformer level are not included in the reference.

| | Cat. no. | Weight (kg) |
|---------------------------------------|-------------|-------------|
| 1 set of plates and bolts for 1 phase | KTB0000YP24 | 5 |
| | | |
| ╡ ┍╋╴╇┈╇╶╋ ╸╺ | | |

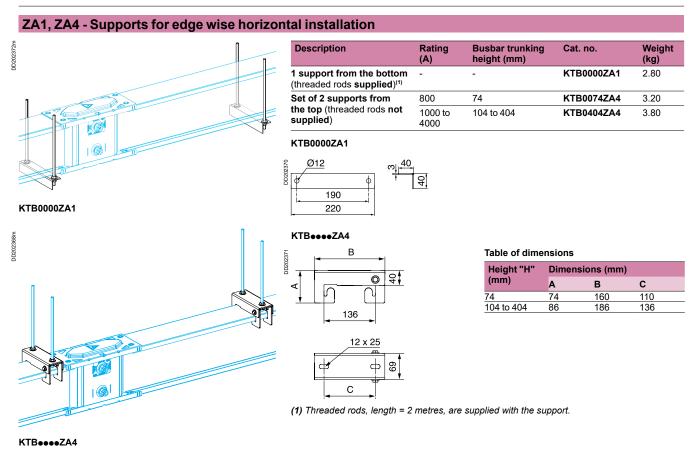


Connection selection guide, see page 238.

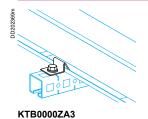
Life Is On Schneider 109

Supports and fixings

Canalis KTA



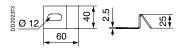
ZA3 - Hooks for edge wise horizontal installation



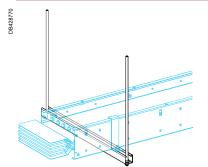
2 fixing grips are needed for each fixing point.

| Description | Cat. no. | Weight (kg) |
|------------------|------------|----------------|
| 1 set of 8 hooks | KTB0000ZA3 | 0.60 |

KTB000ZA3



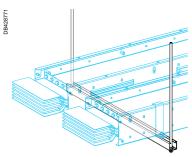
ZA7 - Supports for flat wise horizontal installation (41 x 41)

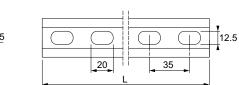


Busbar trunking rating (A) Busbar trunking height "H" (mm) Weight (kg) Length L (mm) Cat. no. 800 to 1600 (1) 74, 104, 124 280 KTB0124ZA7 0.6 KTB0204ZA7 2000 (1) 164, 204 350 0.7 2500 (1) KTB0244ZA7 244 420 0.9 3200 (1) 324 490 KTB0324ZA7 1 4000 (1) 404 560 KTB0404ZA7 1.2 5000 (1) 622 770 KTB0622ZA7 1.6 To be customized (2) All 3000 KTB0000ZA7 6.5

(1) Threaded rods, length = 2 meters, are supplied with the support.
 (2) Threaded rods not supplied.

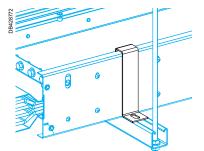






KTB0622ZA7

ZA8 - Bracket for flat wise horizontal installation



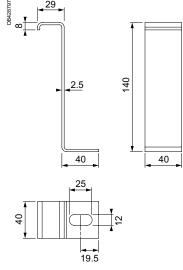
KTB0000ZA8

YB6 - T-Bolts

KTB0000YB6

2 brackets are needed for each fixing point.

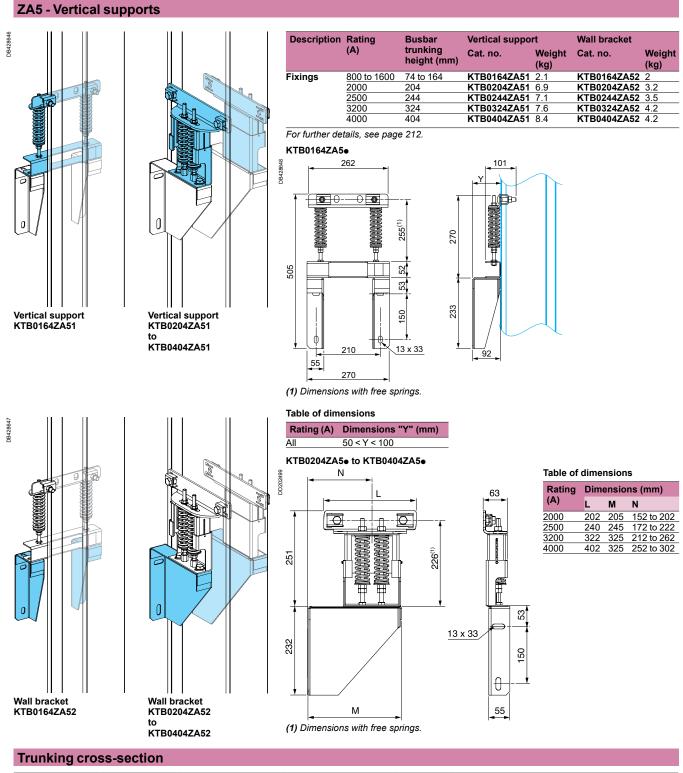
| Description | Cat. no. | Weigh (kg) |
|---|------------|---------------|
| 1 set of 8 brackets | KTB0000ZA8 | 0.14 |
| Supplied with a spacer for fixation of KTeeeeEDeeee. T-bolts are not supplied with this reference. | | |

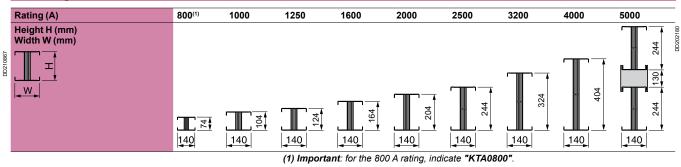


| Description | Cat. no. | Weight (kg) |
|--|------------|----------------|
| 1 box of 50 bolts M10 x 35 for rails 41 x 41 | KTB0000YB6 | 6.0 |

Supports and fixings

Canalis KTA



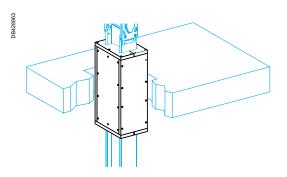


Accessories

Fire-barrier kit

Canalis KTA 800 to 5000

CF - Fire-barrier

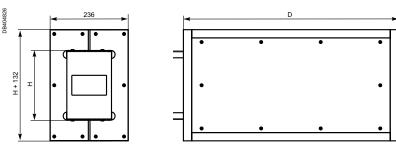


| Туре | Busbar trunking rating (A) | Busbar trunking height "H" (mm) | Fire barrier length | Cat. no. |
|------------------|-------------------------------|------------------------------------|------------------------|---------------------------|
| Fire-barrier kit | 800 | 74 | 650 | KTB0074CF6 |
| | 1000 | 104 | 650 | KTB0104CF6 |
| | 1250 | 124 | 650 | KTB0124CF6 |
| | 1600 | 164 | 650 | KTB0164CF6 |
| | 2000 | 204 | 650 | KTB0204CF6 |
| | 2500 | 244 | 650 | KTB0244CF6 |
| | 3200 | 324 | 650 | KTB0324CF6 |
| | 4000 | 404 | 650 | KTB0404CF6 |
| | 5000 | 622 | 750 | KTB0622CF7 ⁽¹⁾ |

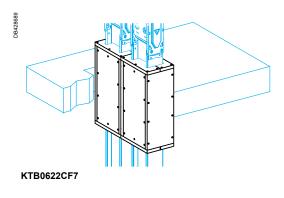
The filler material around the busbar trunking must meet the requirements currently in force to guarantee that the wall and ceiling fire-resistance class (for example DIN 1045 and DIN 1053-1) is maintained.

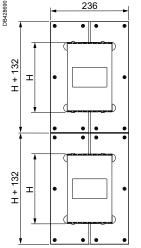
Filler material not supplied.

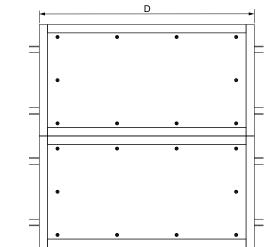
(1) This reference includes a sealant cartridge KTB0000SC1.



The fire barrier kit can also be made up on site by the installer according to Schneider Electric's drawings and specifications. For further information, consult your sales office.







SC - Fire-barrier sealant cartridge



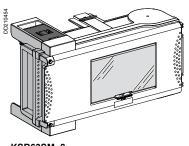
| Туре | Cat. no. |
|--------------------------------|------------|
| Fire-barrier sealant cartridge | KTB0000SC1 |

63 to 100 A tap-off units from Canalis KS range for modular devices IP55

Canalis KTA

Tap-off units with isolator, not equipped Disconnection by opening the tap-off unit cover

Rating (A) $\overline{63}$ $\overline{100}$

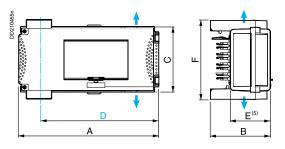


KSB63SMe8, KSB100SMe12 Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

| | System earthing | | Busb | ar trunking | TT-TNS-TNC-IT | | |
|--|---|-----------------------|-----------------|--------------------------------|--|--------------------|----------------|
| | arrangement | | Tap-o | off unit | TT-TNS-TNS-IT | ⁽¹⁾ TNC | |
| | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| f • | Tap-off diagram (e.g. circuit break protection) | er | | | ESEMPTICAL X X X X X X X X X X X X X X X X X X X | | |
| Number of 18 mm modules ⁽³⁾ | Connection | Max. size Flexible | e (mm² Rigid |) Cable gland (not supplied | Cat. no. | Cat. no. | Weight (kg) |
| 8 | On devices | 16 | 16 | ISO 50 max. | KSB63SM48 | KSB63SM58 | 2.40 |
| 12 | On devices | 35 | 35 | ISO 63 max. | KSB100SM412 | KSB100SM51 | 2 5.00 |
| | (1) The neutral ma | | a sta at | | | IT as safe as | |

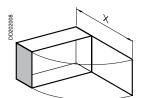
The neutral must be protected or not distributed (3L+PE) for the IT system.
 Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
 Supplied with blanking plates:1x5 divisible (8 modules) or 2x5 divisible (12 modules).
 Maximum diameter for a multipolar cable.

KSB63SMe8, KSB100SMe12



Cable exit
 Centre line of tap-off outlets
 (5) Protruding

| Dimensions | Ratin | ıg (A) |
|------------|-------|--------|
| | 63 | 100 |
| A | 357 | 444 |
| B C | 158 | 183 |
| С | 167 | 202 |
| D | 309 | 397 |
| D E | 108 | 133 |
| F | 202 | 220 |

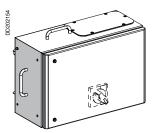


X = 432.5 (KSB63SM•8) X = 545.5 (KSB100SM•12)

125 to 160 A tap-off units from Canalis KS range for modular devices IP55

Tap-off units for NG modular devices, not equipped

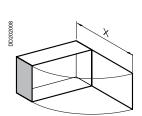
Rotary handle 28060 ⁽⁴⁾



KSB160SMe13

The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

| | | System earthing | | Busb | ar trunking | TT-TNS-TNC-IT | ¹⁾ TNC | |
|---------------|---|---|--------------------------------|------------|--|----------------------------|-------------------|----------------|
| | | arrangement | | Tap-c | off unit | TT-TNS-TNS-IT | ^{I)} TNC | |
| | | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| | | Tap-off diagram (e.g. circuit break protection) | er | | | | L1 L2 L3 N PE | |
| Rating (A) | Type of circuit-breaker | Connection | Max. size (mm²) Flexible | e Rigid | Cable gland ⁽³⁾ (not supplied) | | Cat. no. | Weight (kg) |
| 160 | NG125 Rotary handle 19088 ⁽⁴⁾ NG160 | Terminals | 50 | 70 | ISO 25 max. | KSB160SM413 | KSB160SM51 | 3 8.50 |

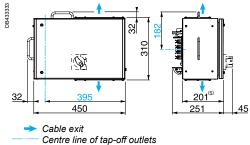


X = 625.5

(1) The neutral must be protected or not distributed (3L+PE) for the IT system. (2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible). (3) Maximum diameter by unipolar cable.

(4) Not supplied.

KSB160SMe13



(5) Protruding

100 to 400 A tap-off units from Canalis KS range for **Compact NSX circuit breakers IP55**

The cover of the tap-off unit may be opened or closed only when the circuit breaker

TT-TNS-TNC-IT⁽¹⁾ TNC

TT-TNS-TNS-IT⁽¹⁾ TNC

3L + PEN

3L + N + PE⁽²⁾

Canalis KTA

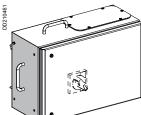
Tap-off units for Compact NSX, fixed, front-connected circuit breakers, not equipped

is in the Off position.

System earthing

arrangement

Tap-off polarity



KSBeeeDCe

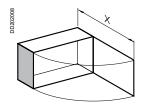
Tap-off diagram L1 L2 L3 L1 L2 L3 N PE (e.g. circuit breaker DD210452 DD210451 Î Î Î Ì î Î protection) Rating Type of Connection Max. size (mm²) Cable gland⁽³⁾ Cat. no. Cat. no. Weight Flexible Rigid (not supplied) (A) circuit breaker (kg) 160 NSX100 or NSX160 Terminals 50 70 ISO 25 max. KSB160DC4 KSB160DC5 9.00 Rotary handle 29338 70 250 ISO 32 max. KSB250DC4 KSB250DC5 **NSX250** 150 12.50 Terminals Rotary handle 29338 400 NSX400 KSB400DC4 KSB400DC5 Terminals 150 240 ISO 40 max. 18.00 Rotary handle 32598

Busbar trunking

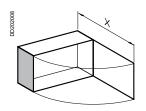
Tap-off unit

(1) The neutral must be protected or not distributed (3L+PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible). (3) Maximum diameter by unipolar cable.

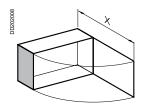
KSB160DC.



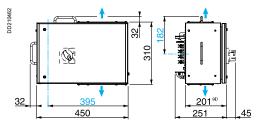
X = 625.5



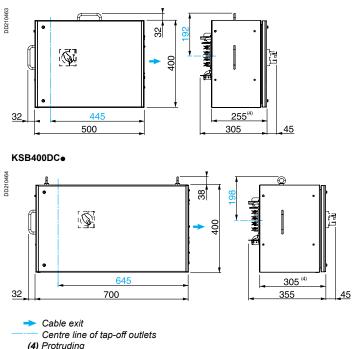
X = 726.5





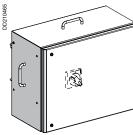


KSB250DC



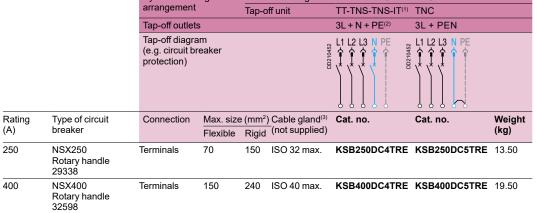
250 to 400 A tap-off units from Canalis KS range for Compact NSX circuit breakers IP55

Tap-off units for measurements and metering, not eqquiped



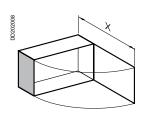
KSB•••DC•TRE

| The cover of the is in the Off posit | | ened or closed only | when the circuit breaker |
|---|-----------------|---------------------|--------------------------|
| System earthing | Busbar trunking | TT-TNS-TNC-IT(1) | TNC |

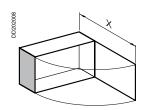


(1) The neutral must be protected or not distributed (3L+PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.

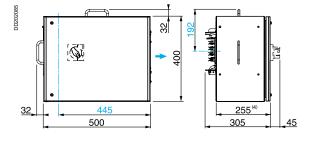
KSB250DC•TRE



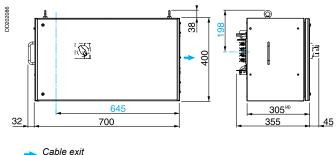
X = 726.5



X = 976.5





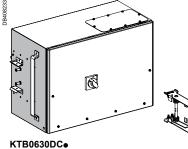


Cable exit
 Centre line of tap-off outlets
 (4) Protruding

630 A tap-off units from Canalis KT range for Compact NSX circuit breakers IP55

Canalis KTA

DC - Tap-off units for Compact NSX, fixed, front-connected circuit breakers, not equipped



Tap-off units to be installed on 2 meters elements, only on central outlet. The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

| | | System earth | 0 | oar trunking | TT-TNS-TNC-IT | (1) TNC | |
|---------------|----------------------------|---|------------------------------|--|----------------------------|------------|----------------|
| | | arrangement | Tap- | offunit | TT-TNS-TNS-IT | (1) TNC | |
| • | | Tap-off polar | ity | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| | | Tap-off diagr (e.g. circuit b protection) | | | | | |
| Rating (A) | Type of circuit breaker | Connection | Max. size (mm L or N / PE | Cable gland⁽³⁾ (not supplied) | | Cat. no. | Weight (kg) |
| 630(4)(6) | NSX630 | Terminals | 2 x 300 / 1 x 15 | 0 ISO 70 max. | KTB0630DC4 | | 45 |
| | Rotary handle 32598 | Terminals | 2 x 300 / 1 x 15 | ISO 70 max. | | KTB0630DC5 | 46 |

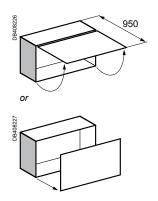
(1) The neutral must be protected or not distributed (3L+PE) for the IT system.
 (2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).

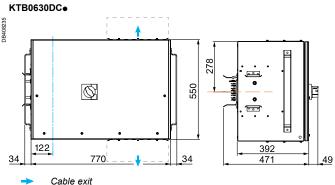
(3) Maximum diameter by unipolar cable.

(4) De-rating coefficient to apply: 0.9.

(5) The auto clamping system is included in the reference and delivered in the box.(6) To be installed on KT ED type distribution length only.

For an installation on Canalis KT delivered before 2016 contact our help desk.

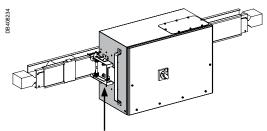




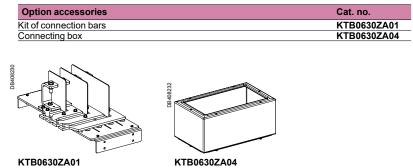
Center line of tap-off outlets

Axis of Canalis KT

--- Connection box to be fitted above or below



The auto clamping system has to be installed on the KT ED distribution units (5) $\,$



50 to 100 A tap-off units from Canalis KS range for NF fuses IP55

Tap-off units with isolator for cylindrical fuses Disconnection by opening the tap-off unit cover

 Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

 System earthing
 Busbar trunking

 TT-TNS-TNC-IT⁽¹⁾

| DD210468 | |
|-----------|-------------------|
| | |
| KSB•••SF• | Rating F (A) (|

| | | , , | | | 5 | | | |
|--------|--|--|----------|-------|------------------------------|------------------------------|--|--------|
| | | arrangement | | Tap-c | off unit | TT-TNS-TNS-IT ⁽¹⁾ | TNC | |
| | e , | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| | | Tap-off diagram (e.g. fuse protecti | on) | | | | L1 L2 L3 N PE 1 1 12 L3 N PE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| Rating | For fuses | Connection | | |) Cable gland ⁽³⁾ | | Cat. no. | Weight |
| (A) | (not supplied) | | Flexible | Rigid | (not supplied) | | | (kg) |
| 50 | NF 14 x 51 Type gG : 50 A max. Type aM : 50 A max. | Terminals | 25 | 25 | ISO 50 max. | KSB50SF4 | KSB50SF5 | 2.40 |
| 100 | NF 22 x 58 Type gG : 100 A max. | Terminals | 50 | 50 | ISO 63 max. | KSB100SF4 | KSB100SF5 | 5.00 |

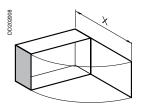
Type gG : 100 A max. Type aM : 100 A max.

(1) The neutral must be not distributed (3L+PE) for the IT system.

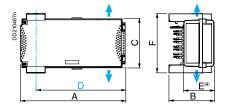
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible only if N not distributed).

(3) Maximum diameter for a multipolar cable.

KSB50SFe, KSB100SFe



 $X = 432.5 (KSB50SF_{\bullet})$ $X = 545.5 (KSB100SF_{\bullet})$



Cable exit
 Centre line of tap-off outlets
 (4) Protruding

| Dimensions | Ratin | g (A) |
|-------------|-------|-------|
| | 50 | 100 |
| A | 356 | 444 |
| B C | 153 | 178 |
| С | 167 | 202 |
| | 309 | 397 |
| D E F | 103 | 128 |
| F | 202 | 220 |

Tap-off units with isolator for blade-type fuses

100 to 400 A tap-off units from **Canalis KS range for NF fuses IP55**

Tap-off unit disconnection by opening or closing the cover should be carried out

only if the downstreamload is de-energised. It is possible to install an OF contact

TT-TNS-TNC-IT⁽¹⁾ TNC

TNC

3L + PEN

L1 L2 L3 N PE

TT-TNS-TNS-IT⁽¹⁾

3L + N + PE⁽²⁾

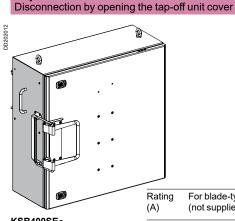
L1 L2 L3 N PE

triggered by cover opening (see the "Accessories" section, page 126).

Busbar trunking

Tap-off unit

Canalis KTA



KSB400SE



(e.g. fuse protection) Î Î DD21047 Î Î Î î JD210 Ф Щ Rating For blade-type fuses Connection Max. size (mm²) Cable gland Weight Cat. no. Cat. no. Flexible Rigid (not supplied) (A) (not supplied) (kg) 100 ISO 63(3) max. KSB100SE5(5) Size 00 Terminals 50 50 KSB100SE4(5) 5.00 Type gG : 100 A max. Type aM : 100 A max. 160 Size 00 Terminals 35 50 ISO 20(4) max. KSB160SE4 KSB160SE5 11.00 Type gG : 160 A max. Type aM : 160 A max. Size 0 Terminals 35 50 ISO 20(4) max. KSB160SF4 KSB160SF5 11.00 Type gG : 160 A max. Type aM : 160 A max. 250 Size 1 Terminals 150 150 ISO 32(4) max. KSB250SE4 KSB250SE5 20.00 Type gG: 250 A max. Type aM : 250 A max. 400 ISO 40⁽⁴⁾ max. KSB400SE4 KSB400SE5 Size 2 240 240 29.20 Terminals Type gG: 400 A max. Type aM : 400 A max.

(1) The neutral must be not distributed (3L+PE) for the IT system.

(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible only if N not distributed).

(3) Maximum diameter for a unipolar cable.

(4) Cable gland for multipolar cable only.

(5) For 100A dimensions, see "Tap-off units with insulators for cylindrical fuses", page 119 cat. no. KSB100SF.

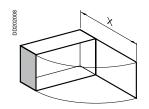
KSB160SEe, KSB250SEe

System earthing

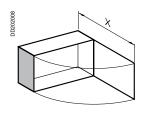
arrangement

Tap-off polarity

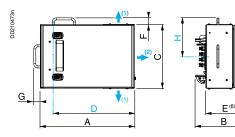
Tap-off diagram



X = 577.5 (KSB160SE) X = 777 (KSB250SE•)

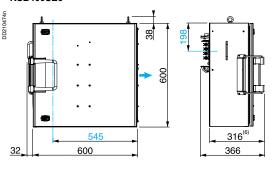


X = 855



| Dimensions | Ratin | ig (A) |
|-----------------------|-------|--------|
| | 160 | 250 |
| A | 450 | 600 |
| A B C | 257 | 308 |
| С | 300 | 400 |
| D | 395 | 548 |
| E | 207 | 258 |
| F | 32 | 32 |
| D E F G H | 32 | 32 |
| Н | 182 | 192 |

KSB400SE



Cable exit: (1) exit of KSB160See, (2) exit of KSB250SEe Centre line of tap-off outlets (6) Protruding

25 to 63 A tap-off units from Canalis KS range for DIN fuses IP55

Tap-off units with isolator for screw-type fuses Disconnection by opening the tap-off unit covert

25 50 63

KSB••S•• Rating F (A) F

 Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

 System earthing
 Busbar trunking

 TT-TNS-TNC-IT⁽¹⁾
 TNC

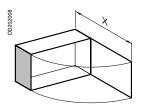
| | Oystern earthing | Dusba | artuanking | | TNC | | | |
|---------------------------------------|-----------------------------|--|-----------------------|----------------|--|----------------------------|---|----------------|
| | | arrangement | Tap-o | ff unit | TT-TNS-TNS-IT ⁽¹⁾ | TNC | | |
| | | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | Tap-off diagram (e.g. fuse protection | on) | | uzpuiccu d | | L1 L2 L3 N PE 1 1 1 2 L3 N PE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| ating \) | For fuses (not supplied) | Connection | Max. size Flexible | (mm²) Rigid | Cable gland ⁽³⁾ (not supplied) | Cat. no. | Cat. no. | Weight (kg) |
| 5 | Diazed E27 | Terminals | 25 | 25 | ISO 50 max | KSB25SD4 | KSB25SD5 | 2.40 |
|) | Néozed E18 | Terminals | 25 | 25 | ISO 50 max. | KSB50SN4 | KSB50SN5 | 2.40 |
| 3 | Diazed E33 | Terminals | 25 | 25 | ISO 63 max. | KSB63SD4 | KSB63SD5 | 2.40 |

(1) The neutral must be not distributed (3L+PE) for the IT system.

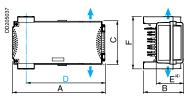
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible only if N not distributed).

(3) Maximum diameter for a multipolar cable.

KSB••S••



X = 432.5 (KSB25SD●, KSB50SN●) X = 545.5 (KSB63SD●)



Cable exit
 Centre line of tap-off outlets
 (4) Protruding

| Dimensions | Rating (A) | | | |
|------------|------------|-----|--|--|
| | 25 and 50 | 63 | | |
| A | 356 | 444 | | |
| В | 153 | 178 | | |
| C | 167 | 202 | | |
| D | 309 | 397 | | |
| E | 103 | 198 | | |
| F | 202 | 220 | | |

Tap-off units with isolator for blade-type fuses

100 to 400 A tap-off units from **Canalis KS range for DIN fuses** IP55

Tap-off unit disconnection by opening or closing the cover should be carried out

only if the downstreamload is de-energised. It is possible to install an OF contact triggered by cover opening (see the "Accessories" section, page 126).

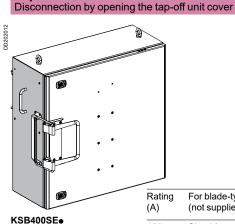
Busbar trunking

Tap-off unit

TT-TNS-TNC-IT⁽¹⁾ TNC

TT-TNS-TNS-IT(1) TNC

Canalis KTA



0010170

KSB160SE. KSB250SE

RUDODOCUC

| | | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | | |
|---------------|--|--------------------------------------|-----------------------|-----------------|---------------------------------|----------------------------|--------------------------|----------------|--|
| | | Tap-off diagram (e.g. fuse protec | | | | | | | |
| Rating (A) | For blade-type fuses (not supplied) | Connection | Max. size Flexible | e (mm² Rigid |) Cable gland (not supplied) | Cat. no. | Cat. no. | Weight (kg) | |
| 100 | Size 00 Type gG : 100 A max. Type aM : 100 A max. | Terminals | 50 | 50 | ISO 63 ⁽³⁾ max. | KSB100SE4 ⁽⁵⁾ | KSB100SE5 ⁽⁵⁾ | 5.00 | |
| 160 | Size 00 Type gG : 160 A max. Type aM : 160 A max. | Terminals | 35 | 50 | ISO 20 ⁽⁴⁾ max. | KSB160SE4 | KSB160SE5 | 11.00 | |
| 250 | Size 1 Type gG : 250 A max. Type aM : 250 A max. | Terminals | 150 | 150 | ISO 32 ⁽⁴⁾ max. | KSB250SE4 | KSB250SE5 | 20.00 | |
| 400 | Size 2 Type gG : 400 A max. Type aM : 400 A max. | Terminals | 240 | 240 | ISO 40 ⁽⁴⁾ max. | KSB400SE4 | KSB400SE5 | 29.20 | |
| | (1) The neutral must be not distributed (3L+PE) for the IT system. | | | | | | | | |

(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible only if N not distributed).

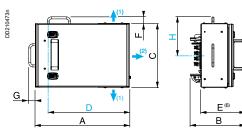
System earthing

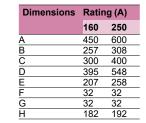
arrangement

(3) Maximum diameter for a unipolar cable. (4) Cable gland for multipolar cable only.

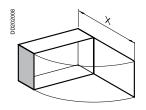
(5) For 100 A dimensions, see "Tap-off units with insulators for cylindrical fuses", page 119 cat. no. KSB100SF.

KSB160SEe, KSB250SEe

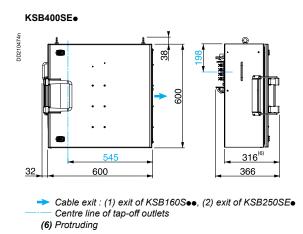








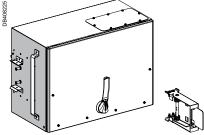






630 A tap-off units from Canalis KT range with switchdisconnector for DIN fuses **IP55**

SD - Tap-off units with switch-disconnector



KTB0630SD.

Tap-off units to be installed on 2 meters elements, only on central outlet. The cover of the tap-off unit may be opened or closed only when the switchdisconnector is in the Off position.

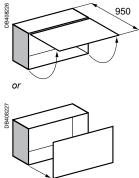
| | | System eart | <u> </u> | usbar trunking | TT-TNS-TNC-I | T ⁽¹⁾ TNC | |
|---------------|---------------|---------------------------------|-----------------------------|--------------------------------|----------------------------|----------------------|----------------|
| • | | arrangemen | t T | ap-off unit | TT-TNS-TNS-I | T ⁽¹⁾ TNC | |
| | | Tap-off polar | rity | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| | | Tap-off diagr (e.g. fuse pro | | | | | |
| Rating (A) | Type of fuses | Connection | Max. size (r L or N / PE | nm²) Cable glar (not suppli | | Cat. no. | Weight (kg) |
| 630(4)(6) | DIN size 3 | Terminals | 2 x 300 / 1 x | (150 ISO 70 ma | AX. KTB0630SD4 | | 64 |
| | | Terminals | 2 x 300 / 1 x | 150 ISO 70 ma | ax. | KTB0630SD5 | 68 |

(1) The neutral must be protected or not distributed (3L+PE) for the IT system.
 (2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).

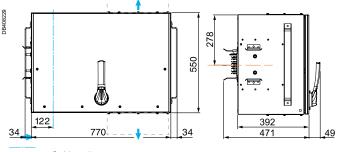
(3) Maximum diameter by unipolar cable.(4) De-rating cœfficient to apply: 0.87.

(6) The auto clamping system is included in the reference and delivered in the box.
 (6) To be installed on KT ED type distribution length only.

For an installation on Canalis KT delivered before 2016 contact our help desk.





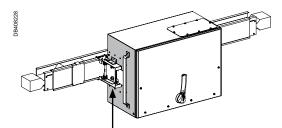


Cable exit

Center line of tap-off outlets

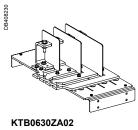
Axis of Canalis KT

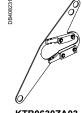
Connection box to be fitted above or below



The auto clamping system has to be installed on the KT ED distribution units (5)

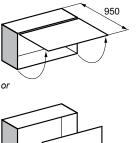
| Option accessories | Cat. no. |
|-------------------------|-------------|
| Kit of connection bars | KTB0630ZA02 |
| Extension rotary handle | KTB0630ZA03 |
| Connecting box | KTB0630ZA04 |







KTB0630ZA03

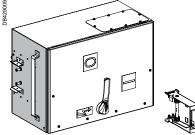


630 A tap-off units from Canalis KT range with switchdisconnector for DIN fuses **IP55**

Canalis KTA

KTB0630SE

SE - Tap-off units with switch-disconnector internal arc tested IEC 61-641



Tap-off units to be installed on 2 meters elements, only on central outlet. The cover of the tap-off unit may be opened or closed only when the switchdisconnector is in the Off position. To be installed on KT ED type distribution length only.

System earthing Busbar trunking TT-TNS-TNC-IT⁽¹⁾ TNC arrangement Tap-off unit TT-TNS-TNS-IT⁽¹⁾ TNC Tap-off polarity 3L + N + PE⁽²⁾ 3L + PEN Tap-off diagram L1 L2 L3 111213 DD230226 (e.g. fuse protection) Î ጎ Î DD23 Π Type of fuses Connection Max. size (mm²) Cable gland⁽³⁾ Cable Cat. no. Cat. no. Weight (not supplied) exit (kg) L or N / PE (kg) side DIN size 3 Terminals 2 x 300 / ISO 70 max. Right KTB0630SE4R 72 1 x 150 KTB0630SE4L 72 Left Right KTB0630SE5R 78 Left KTB0630SE5L 78

> (1) The neutral must be protected or not distributed (3L+PE) for the IT system. (2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).

(3) Maximum diameter by unipolar cable.

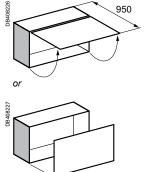
(4) De-rating coefficient to apply: 0.87.

KTB0630SE

B40900

(5) The auto clamping system and the kit of connection bars are included in the reference and delivered in the box.

For an installation on Canalis KT delivered before 2016 contact our help desk.



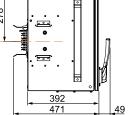


Rating

630(4)

(A)







122

34

Center line of tap-off outlets

770

Axis of Canalis KT

Connection box to be fitted above or below

| Option accessories | Cat. no. |
|---------------------------------------|-------------|
| Extension rotary handle | KTB0630ZA03 |
| Connecting box | KTB0630ZA04 |
| Plate with 5 cable glands 24 to 40 mm | KTB0000GP01 |
| Plate with 1 cable clamp 30 to 70 mm | KTB0000GP02 |
| Plate with 2 cable clamps 30 to 70 mm | KTB0000GP03 |

34



KTB0630ZA03

C

KTB0000GP01



KTB0630ZA04





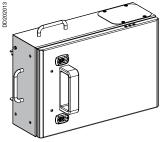
KTB0000GP03

DB 408228

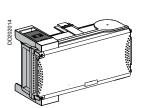
The auto clamping system has to be installed on the KT ED distribution units (5)

32 to 160 A tap-off units from **Canalis KS range for BS fuses** IP55

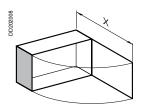
Tap-off units for screw-mounted fuses Disconnection by unplugging the tap-off unit



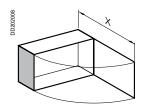
KSB160SG4



KSBeeSG4



X = 432.5 (KSB32SG4) X = 545.5 (KSB80SG4)



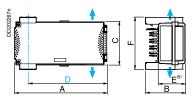
X = 577.5

Tap-off units to be installed on 2 meters elements, only on central outlet. Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

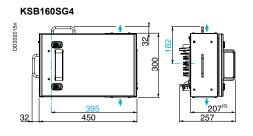
| | | | | | 0 | | |
|---------------|-----------------------------|---------------------------------------|------|-------|---|------------------------------|----------------|
| | | System earthing | | Busba | ar trunking | TT-TNS-TNC-IT ⁽¹⁾ | |
| | | arrangement | | Tap-o | ff unit | TT-TNS-TNS-IT ⁽¹⁾ | |
| | | Tap-off polarity | | | | 3L + N + PE ⁽²⁾ | |
| | | Tap-off diagram (e.g. fuse protect | ion) | | DD2(10470 | | |
| Rating (A) | For fuses (not supplied) | Connection | | | Cable gland (not supplied) | Cat. no. | Weight (kg) |
| 32 | BS88A1 | Terminals | 25 | 25 | ISO 50 ⁽³⁾ max | KSB32SG4 | 2.40 |
| 80 | BS88 A1 or A3 | Terminals | 35 | 50 | ISO 63 ⁽³⁾ max or ISO 20 ⁽⁴⁾ max | KSB80SG4 | 5.00 |
| 160 | BS88 B1 or B2 | Terminals | 35 | 50 | ISO 20 ⁽⁴⁾ max | KSB160SG4 | 11.00 |
| | | | | | | | |

(1) The neutral must be not distributed (3L+PE) for the IT system. (2) Also suitable for tap-off unit 3L + PE (N not distributed). (1) Maximum diameter for a multipolar cable.
(4) Maximum diameter for a unipolar cable.

KSB32SG4, KSB80SG4



| Dimensions | Rating | g (A) |
|----------------------------|--------|-------|
| | 32 | 80 |
| A | 356 | 444 |
| A B C D E F | 153 | 178 |
| С | 167 | 202 |
| D | 309 | 397 |
| E | 103 | 128 |
| F | 202 | 220 |



Cable exit Centre line of tap-off outlets (5) Protruding

Accessories for tap-off units from Canalis KS range

IP55

Canalis KTA

Accessories for all tap-off units for modular devices

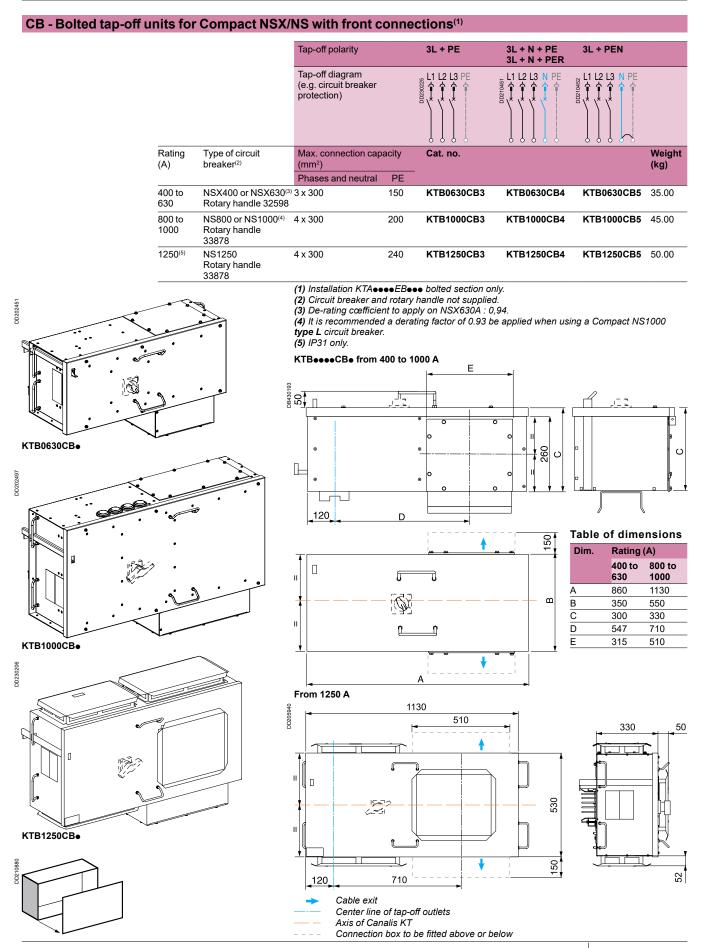
| Designation | Description | Cat. no. | Weight (kg) |
|-------------------------------|---|----------|----------------|
| Modular blanking plate | Divisible set of 10 x 5 | 13940 | 0.08 |
| Adhesive label ⁽¹⁾ | Set of 12 label-holders (H = 24 mm, W = 180 mm) | 08905 | - |
| | Set of 12 labels (H = 24 mm, W = 432 mm) | 08903 | - |
| | Set of 12 divisible labels (H = 24 mm, W = 650 mm) | 08907 | - |

(1) Self-adhesive support complete with transparent cover and paper label.

Accessories for all sheet-metal tap-off units

| Designation | For tap-off unit | Order in multiples of | Cat. no. | Weight (kg) |
|---|----------------------|--------------------------|-----------|----------------|
| Cover contact (break before opening) | KSB100S● to KSB400S● | 1 | KSB400ZC1 | 0.03 |

Bolted tap-off units from Canalis KT for Compact NSX/NS 400 to 1250 A circuit breakers IP54

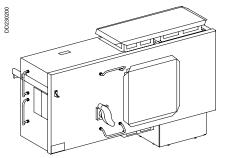


630 and 1000 A bolted tap-off units with switch-disconnectors for DIN fuses IP31

Canalis KTA

HF - Bolted tap-off units with switch-disconnectors⁽¹⁾

| | | Tap-off polarity | Tap-off polarity | | 3L + N + PE 3L + N + PER | 3L + PEN | |
|--------------------|--|---|------------------|----------------------|-----------------------------|------------|----------------|
| | | Tap-off diagram (e.g. circuit breaker protection) | | | | | |
| Rating (A) | DIN fuse size (not supplied) ⁽²⁾ | Max. connection cap (mm ²) | acity | Cat. no. | | | Weight (kg) |
| | | Phases and neutral | PE | _ | | | |
| 630 ⁽³⁾ | Т3 | 3 x 300 | 150 | KTB0630HF3 | KTB0630HF4 | KTB0630HF5 | 54.00 |
| 1000(3)(4) | T4 | 4 x 300 | 200 | KTB1000HF3 | KTB1000HF4 | KTB1000HF5 | 96.00 |
| ~ | | (1) Installation KTA | ••EB | ••• bolted section d | only. | | |

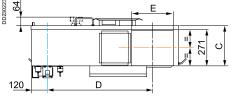


(2) Switch-disconnectors and rotary handle supplied.

(3) Derating coefficient to apply:0.8.

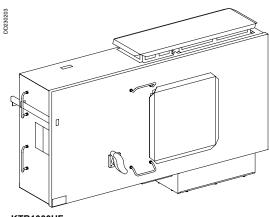
(4) KTB1000HF• cannot be installed on EB straight lengths.

KTB•••HF

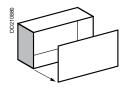




KTB0630HF•







57 ſ п ۵ 🛚 ш Mш 152 J. 51.5

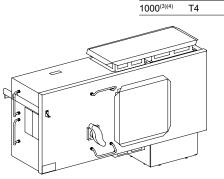
Table of dimensions

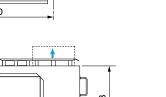
| Dim. | Rating (A) | |
|------|------------|------|
| | 630 | 1000 |
| A | 1108 | 1438 |
| В | 480 | 690 |
| С | 300 | 330 |
| D | 786.5 | 1010 |
| E | 315 | 510 |

Cable exit

Center line of tap-off outlets

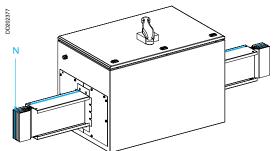
Axis of Canalis KT Connection box to be fitted above or below





Coupling isolators from 1000 to 2500 A **IP55**

SL - Compact NS type NA coupling isolators

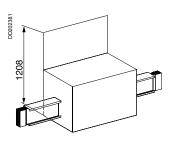


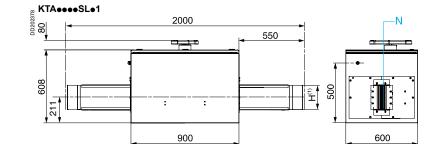
Fits equally on ducting in a flat position, on the edge (door accessible from above or below) or vertically. Tap-off unit door locking is achieved using a door key lock.

| Rating | Type of | Cat. no. | | | Weight |
|--------|------------------------|-------------|-------------|-----------------------------|--------|
| (A) | isolator (supplied) | 3L + PE | 3L + N + PE | 3L + N + PER ⁽¹⁾ | (kg) |
| 1000 | NS1000 NA | KTA1000SL31 | KTA1000SL41 | KTA1000SL51 | 135.00 |
| 1250 | NS1250 NA | KTA1250SL31 | KTA1250SL41 | KTA1250SL51 | 140.00 |
| 1600 | NS1600 NA | KTA1600SL31 | KTA1600SL41 | KTA1600SL51 | 150.00 |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA KTA••••SL71.

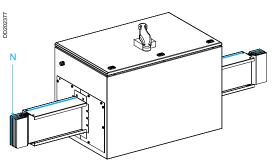
KTA



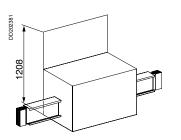


(1) See the "Trunking cross-section" table below.

SL - Interpact INV coupling isolators



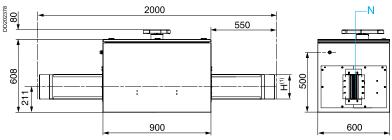
KTA



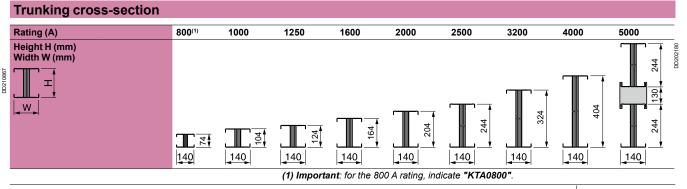
Fits equally on ducting in a flat position, on the edge or vertically. Tap-off unit door locking is achieved using a door key lock.

| Rating | Type of | Cat. no. | | | Weight |
|--------|------------------------|-------------|-------------|--------------|--------|
| (A) | isolator (supplied) | 3L + PE | 3L + N + PE | 3L + N + PER | (kg) |
| 2000 | INV2000 | KTA2000SL31 | KTA2000SL41 | KTA2000SL51 | 170.00 |
| 2500 | INV2500 | KTA2500SL31 | KTA2500SL41 | KTA2500SL51 | 180.00 |

KTAeeeeSLe1



(1) See the "Trunking cross-section" table below.

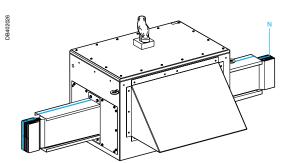


2500 A internal arcing resistant coupling isolator

IP55

Canalis KTA

RL - Coupling isolator with Interpact INV



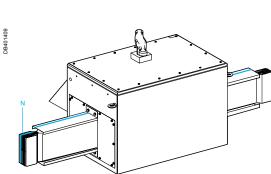
To be installed edgeways on busbar trunking, door accessible from above or below. The enclosure door is fitted with a key lock.

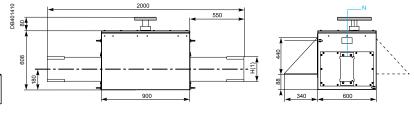
| Rating | Type of switch | Cat. no. | Weight | |
|--------|----------------|-------------|--------------|-------------------|
| (A) | (supplied) | 3L + N + PE | 3L + N + PER | [–] (kg) |
| 2500 | INV 2500 right | KTA2500RL61 | KTA2500RL71 | 300.00 |
| 2500 | INV 2500 left | KTA2500RL62 | KTA2500RL72 | 300.00 |
| - | | | | |

This unit has a short circuit withstand Icw = 110 kA 0.1 s and an internal arcing withstand for 110 kA 0.3 s.

The coupling device can support only one closure at 80 kA.

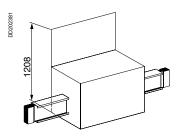
Switchdisconnector inside: Interpact INV ref: 31368 for 3P+PEN, ref:31369 for 3P+N+PER





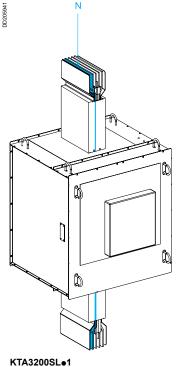
KTA2500RL62, KTA2500RL72

KTA2500RL61, KTA2500RL71



Coupling isolators 3200 A IP55

SL - Masterpact NW coupling isolators



RIAJ2003L

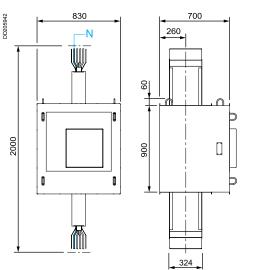
Notice: If the coupling isolator is installed on a **horizontal** busbar trunking the device must be only used as a disconnector and without any accessories (MX, XF, Motor MCH...).

| Rating | Type of | Cat. no. | | | Weight |
|---------|------------------------|--------------|--------------|-----------------------------|--------|
| (A) | isolator (supplied) | 3L + PE | 3L + N + PE | 3L + N + PER ⁽¹⁾ | (kg) |
| 3000(2) | NW/3200 HA | KTA3200SI 31 | KTA3200SI 41 | KTA3200SI 51 | 320.00 |

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••SL51 by KTA••••SL71.

(2) The use of this coupling isolator requires derating the busway run to 3000 A.

KTA3200SL•1



Protection of the run using Compact NS circuit breakers from 1000 à 1600 A

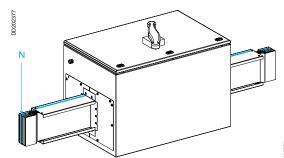
Canalis KTA

KTA

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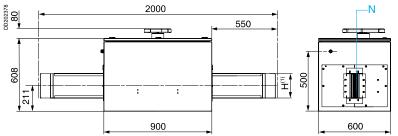
PL - Protection of the run using Compact NS circuit breakers



Fits equally on ducting in a flat position, on the edge or vertically. Tap-off unit door locking is achieved using a door key lock.

| Rating | Type of | Cat. no. | Cat. no. | | | | | | |
|--------|---|-------------|-------------|-----------------------------|--------|--|--|--|--|
| (A) | isolator ⁽²⁾ 3L + PE (supplied) | | 3L + N + PE | 3L + N + PER ⁽³⁾ | (kg) | | | | |
| 1000 | NS1000 N | KTA1000PL31 | KTA1000PL41 | KTA1000PL51 | 135.00 | | | | |
| 1250 | NS1250 N | KTA1250PL31 | KTA1250PL41 | KTA1250PL51 | 140.00 | | | | |
| 1600 | NS1600 N | KTA1600PL31 | KTA1600PL41 | KTA1600PL51 | 150.00 | | | | |

KTA



(1) See the "Trunking cross-section" table below.

(2) Manual fixed compact NS circuit breakers type N equipped with a Micrologic 2.0 control unit.

(3) To order the 3L+N+PER version with reinforced Isc, replace KTA••••PL51 by KTA••••PL71.

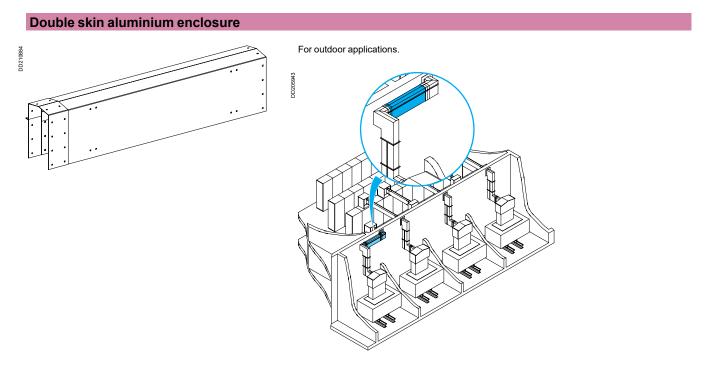
Protection of a run > 1600 A

To install protection of a run > 1600 A, consult your sales office.

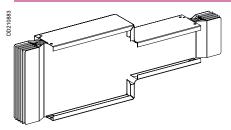
| Trunking cross-section | | | | | | | | | |
|--|--------|------|------|------|------|----------------|------|------|---------|
| Rating (A) | 800(1) | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Height H (mm) Width W (mm) | | | | | | | | | 244 |
| | | | | | | <u>۲</u> میلاب | | | 130 244 |
| ≼ | | | | | | | 354 | | |
| | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 |
| (1) Important: for the 800 A rating, indicate "KTA0800". | | | | | | | | | |

Special products

For further information about the use and the dimensions, consult your sales office.



Reduction sections



For reducing busbar trunking ratings. **NOTE**: must be used in conjunction with appropriate protection.

Table of sizes



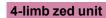
Edgewise elbow with made to measure angles

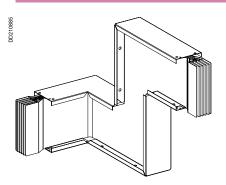


Catalogue numbers and dimensions

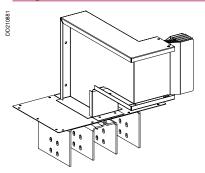
Special products

Canalis KTA





Edgewise/flat elbow feed unit



On demand

- Surface treatment on conductors for corrosive atmospheres.
- Special colours.
- Seaworthy packaging.

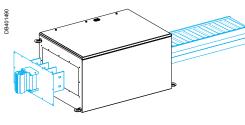
∎ etc.

Canalis KH substitution by Canalis KT

KTA/KHF connection elements

Canalis KTA or KHF

HT - Connection elements



KTB0

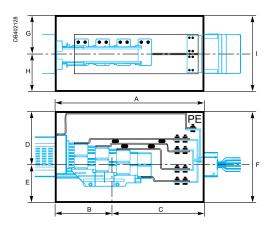
| L + PE | | | |
|------------|--|---|---|
| | 3L + N + PE | 3L + N + PER | Weight (kg) |
| TB0350HT01 | KTB0350HT01 | KTB0350HT01 | 63.00 |
| TB0350HT02 | KTB0350HT02 | KTB0350HT02 | 80.00 |
| | - | KTB0350HT12 | 80.00 |
| TB0510HT01 | KTB0510HT01 | KTB0510HT01 | 88.00 |
| TB0510HT02 | KTB0510HT02 | KTB0510HT02 | 127.00 |
| TB0510HT03 | KTB0510HT03 | KTB0510HT03 | 137.00 |
| | - | KTB0510HT11 | 88.00 |
| | TB0350HT02 TB0510HT01 TB0510HT02 | TB0350HT02 KTB0350HT02 - TB0510HT01 KTB0510HT01 TB0510HT02 KTB0510HT02 TB0510HT03 KTB0510HT03 | TB0350HT02 KTB0350HT02 KTB0350HT02 - KTB0350HT12 TB0510HT01 KTB0510HT01 KTB0510HT01 TB0510HT02 KTB0510HT02 KTB0510HT02 TB0510HT03 KTB0510HT03 KTB0510HT03 |

Table of dimensions

| | Α | в | С | D | Е | F | G | н | 1 |
|-------------|-----|-------|-------|-----|-----|-----|-----|-----|-----|
| KTB0350HT01 | 850 | 331.5 | 518.5 | 300 | 300 | 600 | 258 | 208 | 466 |
| KTB0350HT02 | 850 | 331.5 | 518.5 | 300 | 300 | 600 | 258 | 208 | 466 |
| KTB0350HT12 | 850 | 331.5 | 518.5 | 300 | 300 | 600 | 258 | 208 | 466 |
| KTB0510HT01 | 890 | 310 | 580 | 300 | 300 | 600 | 329 | 306 | 635 |
| KTB0510HT02 | 890 | 310 | 580 | 300 | 300 | 600 | 329 | 306 | 635 |
| KTB0510HT03 | 890 | 310 | 580 | 300 | 300 | 600 | 329 | 306 | 635 |
| KTB0510HT11 | 890 | 310 | 580 | 300 | 300 | 600 | 329 | 306 | 635 |

| KHF type | Rating | L busway | KT type | Rating | H busway | H flange | Connection re |
|--------------------|------------|-----------|------------------------|----------------|----------------|--------------|---------------|
| KHF14 | 1000 | 166 | KTA1000 | 1000 | 104 | 230 | |
| KHF16 | 1200 | 166 | KTA1250 | 1250 | 124 | 230 | KTB0350HT0 |
| KHF18 | 1450 | 166 | KTA1600 | 1600 | 164 | 350 | _ |
| KHF26 | 2200 | 238 | KTA2500 | 2500 | 244 | 350 | - ктвоз50нто |
| KHF28 | 2500 | 238 | KTA2500 | 2500 | 244 | 350 | KIB0550HIG |
| KHF27 | 2200 | 310 | KTA2500 | 2500 | 244 | 350 | - KTB0350HT |
| KHF29 | 2500 | 310 | KTA2500 | 2500 | 244 | 350 | Ribeccenti |
| KHF36 | 3000 | 310 | KTA3200 | 3200 | 324 | 510 | - KTB0510HT |
| KHF38 | 3500 | 310 | KTA4000 | 4000 | 404 | 510 | |
| KHF39 | 3500 | 382 | KTA4000 | 4000 | 404 | 510 | KTB0510HT |
| KHF46 | 4000 | 382 | KTA4000 | 4000 | 404 | 510 | - KTB0510HT |
| KHF48 | 4500 | 382 | KTC5000 (1) | 5000 | 404 | 510 | KERASALIT |
| KHF56 | 5000 | 454 | KTC5000 ⁽¹⁾ | 5000 | 404 | 510 | KTB0510HT |
| KHF58 | 5500 | 454 | etails of the pro | | nsion with k | CT is not po | ssidie |
| KHF18 | 238 | | 310 | | 1111111 | | 454 |
| KTA1000 | KTA1250 |) KTA1600 |) KTA2000 | KTA250 | | | |
| | 140 121 | | | | | | 404 |
| KHF Pola | rity | | | KTA P | olarity | | |
| | | | | 3L+PE | | | |
| 3L+PE | | | | | | | |
| 3L+PE 3L+1/2N+P | Ϋ́Ε | | | 3L+N+ | PE | | |
| - | ΡE | | | 3L+N+ 3L+N+ | | | |

(2) Version with 120 mm² Cu conductor or entire conductor.



Canalis KH substitution by Canalis KT Preserved KH tap-off units

and substitution table

| Canalis KTA |
|-------------|
|-------------|

| Switch and fuse carriers 3L+P 3L+N 3L+N 3L+P Circuit breaker manuel 3L+N Circuit breaker electrical control 3L+N 3L+P | PE N+PE PEN NP+PE | Rating 160 250 400 630 160 250 400 630 160 250 400 630 160 250 400 630 160 250 400 630 200 315 500 50 100 200 315 400 630 50 100 200 315 400 500 630 50 100 200 250 30 50 100 200 250 200 250 200 250 200 <t< th=""><th>Catalogue number KH016SD13 KH025SD13 KH040SD13 KH063D13 KH063D13 KH016SD14 KH025SD14 KH040SD15 KH040SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD24 KH025SD33 KH005SD33 KH005SD34 KH010SD34 KH02SSE341 KH005SD34 KH005SD34 KH005SD35 KH005SD35 KH005SD35 KH005SD35</th><th>Removed Removed Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved</th><th>Substitued by KH025SD15 KH025SD15 KH063SD15 KH063SD14 - KH063SD15 KH063SD14 - KH063SD15 KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 No No No KH025SE351 KH040SE351 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 - KH040SE341</th></t<> | Catalogue number KH016SD13 KH025SD13 KH040SD13 KH063D13 KH063D13 KH016SD14 KH025SD14 KH040SD15 KH040SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD24 KH025SD33 KH005SD33 KH005SD34 KH010SD34 KH02SSE341 KH005SD34 KH005SD34 KH005SD35 KH005SD35 KH005SD35 KH005SD35 | Removed Removed Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved | Substitued by KH025SD15 KH025SD15 KH063SD15 KH063SD14 - KH063SD15 KH063SD14 - KH063SD15 KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 No No No KH025SE351 KH040SE351 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 - KH040SE341 |
|--|----------------------------|---|---|---|---|
| Switch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+N 3L+N 3L+P Circuit breaker manuel 3L+N 2lircuit breaker electrical control 3L+N 3L+P | PEN NP+PE PE | 400 630 160 250 400 630 160 250 400 630 160 250 400 630 160 250 400 630 200 315 500 50 100 200 315 400 50 100 250 315 400 500 100 200 250 | KH025SD13 KH040SD13 KH063SD13 KH016SD14 KH02SSD14 KH040SD14 KH040SD14 KH063SD14 KH040SD15 KH063SD15 KH005SD24 KH005SD33 KH005SD34 KH010SD34 KH02SSE341 KH040SE341 KH063SE341 KH005SD34 KH005SD35 KH005SD35 | Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | KH063SD15 KH063SD15 KH025SD14 - KH025SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 No No No KH025SE351 KH025SE351 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| Switch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+N 3L+P 3L+N 3L+P 2ircuit breaker manuel 3L+N 2ircuit breaker electrical control 3L+N 3L+P | PEN NP+PE PE | 630 160 250 400 630 160 250 400 630 160 250 400 630 160 250 400 630 200 315 500 50 100 200 315 400 500 315 400 500 250 315 400 500 100 200 250 | KH063SD13 KH016SD14 KH025SD14 KH040SD14 KH063SD14 KH063SD15 KH025SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD24 KH02SD33 KH00SD24 KH02SD33 KH00SD33 KH00SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH005SD34 KH063SE341 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | KH063SD15 KH025SD14 - KH025SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 No No No KH025SE351 KH025SE351 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| Switch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+N 3L+P 3L+N 3L+P 2ircuit breaker manuel 3L+N 2ircuit breaker electrical control 3L+N 3L+P | PEN NP+PE PE | 160 250 400 630 160 250 400 630 160 250 400 630 160 250 400 630 200 315 500 50 100 200 315 400 630 50 100 50 100 200 250 315 400 500 500 500 500 500 500 500 500 50 100 200 250 | KH016SD14 KH025SD14 KH040SD14 KH063SD14 KH016SD15 KH025SD15 KH040SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD24 KH02SD24 KH00SD24 KH00SD33 KH005SD34 KH02SSD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH04SE3411 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved | KH025SD14 - KH063SD14 - KH025SD15 - KH063SD15 - KH063SD15 - KH063SD15 - KH063SD15 No No No KH025SE351 KH025SE351 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| witch and fuse carriers 3L+P 3L+N | PEN NP+PE PE | 250 400 630 160 250 400 630 160 250 400 630 200 315 500 50 100 200 250 315 400 630 50 50 100 250 50 100 50 50 100 250 250 250 315 400 50 50 250 315 400 50 50 250 315 400 50 250 250 250 250 250 250 25 | KH025SD14 KH040SD14 KH063SD14 KH06SD15 KH02SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD15 KH063SD14 KH063SD24 KH02SD33 KH005SD34 KH005SD34 KH02SSE341 KH040SE341 KH063SD34 KH063SE341 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH063SD14 - KH025SD15 - KH063SD15 - KH063SD15 No No No No No KH025SE351 KH040SE351 KH025SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | NP+PE PE N+PE | 400 630 160 250 400 630 160 250 400 630 250 400 630 250 400 630 200 315 500 200 250 315 400 500 50 100 50 100 200 250 | KH040SD14 KH063SD14 KH06SD15 KH02SSD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD14 KH063SD15 KH063SD14 KH063SD15 KH063SD24 KH00SD33 KH00SD33 KH00SD33 KH00SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH040SE341 KH063SE341 KH063SE341 KH005SD35 KH003SE341 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH025SD15 - KH063SD15 - KH063SD15 No No No No No KH025SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P 3L+N 3L+N 3L+N 3L+N 3L+N 3L+N 3L+N | NP+PE PE N+PE | 630 160 250 400 630 160 250 400 630 250 400 630 200 315 500 100 200 315 400 50 100 250 315 400 500 100 200 250 | KH063SD14 KH016SD15 KH02SSD15 KH040SD15 KH063SD15 KH005SD24 KH00SD33 KH005SD34 KH005SD34 KH005SD34 KH005SD34 KH02SSE341 KH040SE3411 KH050SD34 KH063SE341 KH005SD35 KH005SD35 | Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH025SD15 - KH063SD15 - KH063SD15 No No No No No KH025SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | NP+PE PE N+PE | 160 250 400 630 160 250 400 630 200 315 500 100 200 315 50 100 250 315 400 50 100 250 315 400 500 100 200 250 | KH016SD15 KH025SD15 KH040SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD15 KH063SD24 KH02SD24 KH02SD33 KH05SD34 KH010SD34 KH02SSE341 KH040SE341 KH040SE341 KH05SD34 KH040SE341 KH05SD34 KH040SE341 KH05SD35 KH005SD35 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH063SD15 - KH063SD15 No No No No KH025SE351 KH040SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | NP+PE PE N+PE | 250 400 630 250 400 630 200 315 500 50 100 200 250 315 400 500 630 50 100 200 250 | KH025SD15 KH040SD15 KH063SD15 KH063SD1530758 KH063SD1530758 KH063SD1530758 KH063SD1530758 KH063SD1530758 KH005SD24 KH003SD24 KH003SD24 KH003SD33 KH005SD33 KH00SSD34 KH02SSE341 KH02SSE341 KH040SE341 KH060SD34 KH060SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH063SD15 - KH063SD15 No No No No KH025SE351 KH040SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PE N+PE | 400 630 160 250 400 630 200 315 500 50 100 200 315 500 50 100 250 315 400 500 630 50 100 200 250 | KH040SD15 KH063SD15 KH063SD1530758 KH016SD24 KH02SD24 KH003SD1530758 KH016SD24 KH02SD24 KH003SD24 KH003SD23 KH020SD33 KH050SD33 KH005SD34 KH02SSE341 KH02SSE341 KH040SE341 KH060SD34 KH060SE341 KH060SE341 KH060SE341 KH060SE341 KH060SE341 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH063SD15 No No No No KH025SE351 KH040SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PE N+PE | 630 160 250 400 630 200 315 500 50 100 2200 315 500 50 100 250 315 400 500 630 50 100 200 250 | KH063SD15 KH063SD1530758 KH016SD24 KH02SSD24 KH040SD24 KH02SD33 KH02SSD33 KH00SD34 KH02SD34 KH00SD34 KH02SD34 KH02SD34 KH02SD34 KH02SSE341 KH040SE341 KH00SSD34 KH02SSE341 KH063SE341 KH063SE341 KH005SD34 KH005SD34 | Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | - KH063SD15 No No No No KH025SE351 KH040SE351 KH040SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PE N+PE | 160 250 400 630 200 315 500 50 100 2200 315 500 50 100 250 315 400 500 630 50 100 200 250 | KH063SD1530758 KH016SD24 KH02SSD24 KH040SD24 KH02SD23 KH02SD33 KH005SD33 KH00SD34 KH00SD34 KH02SD34 KH005SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH02SD34 KH005SD34 KH005SD34 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | No No No KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PE N+PE | 250 400 630 200 315 500 50 100 250 315 400 500 630 50 100 200 250 | KH016SD24 KH025SD24 KH040SD24 KH063SD24 KH005SD33 KH005SD33 KH005SD34 KH02SD33 KH005SD34 KH02SD34 KH02SSE341 KH040SE341 KH063SE341 KH063SE341 KH063SE341 KH053SD34 | Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | No No No KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 |
| witch and fuse carriers 3L+P 3L+N 3L+N 3L+P ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PE N+PE | 250 400 630 200 315 500 50 100 250 315 400 500 630 50 100 200 250 | KH025SD24 KH040SD24 KH063SD24 KH020SD33 KH05SD33 KH005SD34 KH005SD34 KH020SD34 KH020SD34 KH02SSE341 KH040SE341 KH050SD34 KH005SE341 KH005SD34 KH005SD35 KH005SD35 | Removed Removed Removed Removed Removed Removed Removed Removed Removed Preserved Removed Preserved Removed Preserved Preserved Removed | No No No KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 - KH040SE341 |
| 3L+N 3L+P 3L+N 3L+P 3L+P | N+PE | 400 630 200 315 500 100 200 250 315 400 500 630 200 250 315 400 500 630 50 100 200 250 | KH040SD24 KH063SD24 KH020SD33 KH050SD33 KH050SD33 KH005SD34 KH010SD34 KH020SD34 KH020SD34 KH020SD34 KH020SD34 KH02SSE341 KH040SE341 KH050SD34 KH050SD34 KH040SE341 KH050SD34 KH005SD35 KH005SD35 | Removed Removed Removed Removed Removed Removed Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | No No KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 |
| ircuit breaker manuel 3L+N 3L+P 3L+P 3L+P 3L+P 3L+P 3L+P 3L+P | N+PE | 630 200 315 500 100 200 250 315 400 500 630 50 100 250 315 400 500 630 200 250 | KH063SD24 KH020SD33 KH031SD33 KH050SD33 KH005SD34 KH002SD34 KH02SD34 KH02SSE341 KH040SE341 KH040SE341 KH060SD34 KH005SD35 KH005SD35 | Removed Removed Removed Removed Removed Removed Preserved Removed Preserved Preserved Removed Preserved Preserved Removed Preserved Removed | No KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| ircuit breaker manuel 3L+N 3L+P 3L+P 3L+N 3L+P 3L+P 3L+P 3L+P | N+PE | 200 315 500 50 200 250 315 400 500 630 50 100 200 250 | KH020SD33 KH031SD33 KH050SD33 KH005SD34 KH010SD34 KH02SD34 KH02SSE341 KH040SE341 KH040SE341 KH060SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 | Removed Removed Removed Removed Removed Preserved Removed Preserved Preserved Preserved Preserved Preserved Preserved Preserved Removed | KH025SE351 KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - KH040SE341 - KH040SE341 - KH040SE341 |
| ircuit breaker manuel 3L+N 3L+P 3L+P 3L+P 3L+P 3L+P 3L+P 3L+P | N+PE | 315 500 50 100 200 250 315 400 500 630 50 100 200 250 | KH031SD33 KH050SD33 KH005SD34 KH010SD34 KH02SD34 KH02SSE341 KH031SD34 KH005SD34 KH025SE341 KH040SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH063SE341 KH005SD35 KH005SD35 | Removed Removed Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed Preserved Removed | KH040SE351 KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH040SE341 - KH040SE341 - KH040SE341 |
| rcuit breaker manuel 3L+N 3L+N 3L+N 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | 500 50 100 200 250 315 400 500 630 50 100 200 250 | KH050SD33 KH005SD34 KH010SD34 KH020SD34 KH02SSE341 KH031SD34 KH040SE341 KH060SD34 KH060SD34 KH060SD34 KH060SD34 KH060SD34 KH060SD34 KH060SD34 KH060SD35 KH005SD35 | Removed Removed Removed Preserved Removed Preserved Removed Preserved Preserved Removed Preserved Removed | KH063SE351 KH025SE341 KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - |
| rcuit breaker manuel 3L+N 3L+N 3L+N 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | 50 100 200 250 315 400 500 630 50 100 200 250 | KH005SD34 KH010SD34 KH020SD34 KH025SE341 KH031SD34 KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH003SE341 | Removed Removed Preserved Removed Preserved Removed Preserved Removed Preserved | KH025SE341 KH025SE341 KH025SE341 - KH040SE341 - |
| rcuit breaker manuel 3L+N 3L+N 3L+N 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | 100 200 250 315 400 500 630 50 100 200 250 | KH010SD34 KH020SD34 KH025SE341 KH031SD34 KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH005SD35 | Removed Removed Preserved Removed Preserved Removed Preserved Removed | KH025SE341 KH025SE341 - KH040SE341 - |
| rcuit breaker manuel 3L+N 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | PEN | 200 250 315 400 500 630 50 100 200 250 | KH020SD34 KH025SE341 KH031SD34 KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH00SD35 | Removed Preserved Removed Preserved Removed Preserved Preserved | KH025SE341 - KH040SE341 - |
| rcuit breaker manuel 3L+N 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | PEN | 250 315 400 500 630 50 100 200 250 | KH025SE341 KH031SD34 KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH010SD35 | Preserved Removed Preserved Removed Preserved | - KH040SE341 - |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 315 400 500 630 50 100 200 250 | KH031SD34 KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH010SD35 | Removed Preserved Removed Preserved | - |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 400 500 630 50 100 200 250 | KH040SE341 KH050SD34 KH063SE341 KH005SD35 KH010SD35 | Preserved Removed Preserved | - |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 500 630 50 100 200 250 | KH050SD34 KH063SE341 KH005SD35 KH010SD35 | Removed Preserved | - KH063SE341 |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 630 50 100 200 250 | KH063SE341 KH005SD35 KH010SD35 | Preserved | KH063SE341 |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 50 100 200 250 | KH005SD35 KH010SD35 | | |
| ircuit breaker manuel 3L+N 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | PEN | 100 200 250 | KH010SD35 | | - |
| ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | | 200 250 | | Removed | KH025SE351 |
| rcuit breaker manuel 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | 250 | KH020SD35 | Removed | KH025SE351 |
| rcuit breaker manuel 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | | 1110200000 | Removed | KH025SE351 |
| rcuit breaker manuel 3L+N 3L+P rcuit breaker electrical control 3L+N 3L+P | | 045 | KH025SE351 | Preserved | - |
| ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | | 315 | KH031SD35 | Removed | KH040SE351 |
| ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | | 400 | KH040SE351 | Preserved | - |
| ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | | 500 | KH050SD35 | Removed | KH063SE351 |
| ircuit breaker manuel 3L+N 3L+P ircuit breaker electrical control 3L+N 3L+P | | 630 | KH063SE351 | Preserved | - |
| rcuit breaker electrical control 3L+P | NP+PE | 200 | KH020SD44 | Removed | No |
| ircuit breaker electrical control 3L+P | | 315 | KH031SD44 | Removed | No |
| ircuit breaker electrical control 3L+P | | 500 | KH050SD44 | Removed | No |
| ircuit breaker electrical control 3L+N 3L+P | N+PE | 160 | KH016SD541 | Removed | KH025SD541 |
| ircuit breaker electrical control 3L+N 3L+P | | 250 | KH025SD541 | Preserved | - |
| ircuit breaker electrical control 3L+N 3L+P | | 400 | KH040SD541 | Removed | KH063SD541 |
| ircuit breaker electrical control 3L+N 3L+P | | 630 | KH063SD541 | Preserved | - |
| 3L+P | PEN | 160 | KH016SD551 | Removed | KH025SD551 |
| 3L+P | | 250 | KH025SD551 | Preserved | - |
| 3L+P | | 400 | KH040SD551 | Removed | KH063SD551 |
| 3L+P | | 630 | KH063SD551 | Preserved | - |
| 3L+P | N+PE | 160 | KH016SD542 | Removed | KH025SD542 |
| | | 250 | KH025SD542 | Preserved | - |
| | | 400 | KH040SD542 | Removed | KH063SD542 |
| | | 630 | KH063SD542 | Preserved | - |
| | PEN | 160 | KH016SD552 | Removed | KH025SD552 |
| luller isolater | | 250 | KH025SD552 | Preserved | - |
| uller isolator | | 400 | KH040SD552 | Removed | KH063SD552 |
| uller lealator | | 630 | KH063SD552 | Preserved | - |
| IUIICI ISUIALUI I JL+N | N+PE | 630 | KH063SD841 | Removed | No |
| 3L+P | | 100 | KH010SD85 | Preserved | - |
| | | 250 | KH025SD85 | Preserved | - |
| | | 400 | KH040SD85 | Preserved | - |
| | | 630 | KH063SD85 | Preserved | - |
| | | | KH063SD8502 | Removed | KH063SD85 |
| uller Isolator + Pelha 3L+P | PEN | 400 | KH040SD9502 | Preserved | - |
| | | 630 | KH063SD9502 | Preserved | - |
| umeco switch - | | - | KH0SD108919802 | Removed | No |
| | | | KH0SD108919803 | Removed | No |
| | | | KH0SD108920002 | Removed | No |
| | | | KH0SD108920002 | Removed | No |
| | | | KH0SD108922201 KH0SD108922202 | Removed | No |
| ther 21.1N | | 100 | | Removed | |
| ther 3L+N | | 100 | KH0SD107080401 | | No |
| | N+PE | 60 | KH0SD107076901 | Removed | No |
| 3L+P | | 100 | KH0SD107080402 | Removed | No |
| - | | 60 | KH0SD107076902 | Removed Removed | No No |

| tection | Polarity | Rating | Catalogue number | Status | Substitued by |
|----------------------|-----------|--------|--------------------------|--------------------|---------------|
| or and fuse carriers | 3L+PE | 160 | KH016SB131 | Removed | KH025SB131 |
| | | | KH016SB132 | Removed | KH025SB132 |
| | | 250 | KH025SB131 | Preserved | - |
| | | | KH025SB132 | Preserved | - |
| | | 400 | KH040SB131 | Removed | KH063SB131 |
| | | | KH040SB132 | Removed | KH063SB132 |
| | | 630 | KH063SB131 | Preserved | - |
| | | | KH063SB132 | Preserved | - |
| | | 1000 | KH086SB131 | Preserved | - |
| | | | KH086SB132 | Preserved | - |
| | | | KH0SB331132 | Removed | KH086SB132 |
| | 3L+N+PE | 160 | KH016SB141 | Removed | KH025SB141 |
| | | | KH016SB142 | Removed | KH025SB142 |
| | | 250 | KH025SB141 | Preserved | - |
| | | | KH025SB142 | Preserved | - |
| | | 400 | KH040SB141 | Removed | KH063SB141 |
| | | 000 | KH040SB142 | Removed | KH063SB142 |
| | | 630 | KH063SB141 | Preserved | |
| | | 1000 | KH063SB142 | Preserved | - |
| | | 1000 | KH086SB141 | Preserved | - |
| | 3L+PEN | 160 | KH086SB142 | Preserved | - |
| | 3L+PEN | 160 | KH016SB151 | Removed | No |
| | | 250 | KH016SB152 | Removed Removed | No |
| | | 250 | KH025SB151 | Removed | No No |
| | | 400 | KH025SB152 KH040SB151 | Removed | No |
| | | 400 | KH040SB151 | Removed | No |
| | | 630 | KH0403B152 KH063SB151 | Removed | No |
| | | 030 | KH063SB151 | Removed | No |
| | | 1000 | KH086SB151 | Removed | No |
| | | 1000 | KH086SB152 | Removed | No |
| | 3L+NP+PE | 160 | KH016SB241 | Removed | No |
| | JLTINFTFL | 100 | KH016SB242 | Removed | No |
| | | 250 | KH025SB241 | Removed | No |
| | | 230 | KH025SB242 | Removed | No |
| | | 400 | KH040SB241 | Removed | No |
| | | 400 | KH040SB242 | Removed | No |
| | | 630 | KH063SB241 | Removed | No |
| | | | KH063SB242 | Removed | No |
| | | 1000 | KH086SB241 | Removed | No |
| | | | KH086SB242 | Removed | No |
| l fuse carriers | 3L+PE | 1000 | KH086SB331 | Removed | No |
| | | | KH086SB332 | Removed | No |
| | 3P+PE | 250 | KH025SB331 | Removed | No |
| | | | KH025SB332 | Removed | No |
| | | 400 | KH040SB331 | Removed | No |
| | | | KH040SB332 | Removed | No |
| | | 630 | KH063SB331 | Removed | No |
| | | | KH063SB332 | Removed | No |
| | 3P+PEN | 1000 | KH086SB351 | Removed | No |
| | | | KH086SB352 | Removed | No |
| | 3L+N+PE | 250 | KH025SB341 | Removed | No |
| | | | KH025SB342 | Removed | No |
| | | | KH025SB441 | Removed | No |
| | | | KH025SB442 | Removed | No |
| | | 400 | KH040SB341 | Removed | No |
| | | | KH040SB342 | Removed | No |
| | | | KH040SB441 | Removed | No |
| | | | KH040SB442 | Removed | No |
| | | 630 | KH063SB341 | Removed | No |
| | | | KH063SB342 | Removed | No |
| | | | KH063SB441 | Removed | No |
| | | | KH063SB442 | Removed | No |
| | | 1000 | KH086SB341 | Removed | No |
| | | | KH086SB342 | Removed | No |

Catalogue numbers and dimensions

Canalis KH substitution by Canalis KT

Preserved KH tap-off units and substitution table

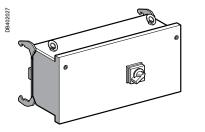
| Protection | Polarity | Rating | Catalogue number | Status | Substitued by |
|-------------------------------------|----------|--------|------------------|-----------|---------------|
| Switch and fuse carriers (con't | 3L+PEN | 250 | KH025SB351 | Removed | No |
| | | | KH025SB352 | Removed | No |
| | | 400 | KH040SB351 | Removed | No |
| | | | KH040SB352 | Removed | No |
| | | 630 | KH063SB351 | Removed | No |
| | | | KH063SB352 | Removed | No |
| Circuit breaker manuel | 3L+PE | 1000 | KH086SB5311 | Preserved | - |
| | | | KH086SB5312 | Preserved | - |
| | 3L+N+PE | 250 | KH025SB5411 | Removed | KH086SB5411 |
| | | | KH025SB5412 | Removed | KH086SB5412 |
| | | 400 | KH040SB5411 | Removed | KH086SB5411 |
| | | | KH040SB5412 | Removed | KH086SB5412 |
| | | 630 | KH063SB5411 | Removed | KH086SB5411 |
| | | | KH063SB5412 | Removed | KH086SB5412 |
| | | 1000 | KH086SB5411 | Preserved | - |
| | | | KH086SB5412 | Preserved | - |
| | 3L+PEN | 250 | KH025SB5511 | Removed | No |
| | | | KH025SB5512 | Removed | No |
| | | 400 | KH040SB5511 | Removed | No |
| | | | KH040SB5512 | Removed | No |
| | | 630 | KH063SB5511 | Removed | No |
| | | | KH063SB5512 | Removed | No |
| | | 1000 | KH086SB5511 | Removed | No |
| | | | KH086SB5512 | Removed | No |
| Circuit breaker electrical controle | 3P+PEN | 250 | KH025SB5521 | Removed | No |
| | | 400 | KH040SB5521 | Removed | No |
| | | 630 | KH063SB5521 | Removed | No |
| | 3L+N+PE | 250 | KH025SB5421 | Removed | No |
| | | | KH025SB5422 | Removed | No |
| | | 400 | KH040SB5421 | Removed | No |
| | | | KH040SB5422 | Removed | No |
| | | 630 | KH063SB5421 | Removed | No |
| | | | KH063SB5422 | Removed | No |
| | 3L+PEN | 250 | KH025SB5522 | Removed | No |
| | | 400 | KH040SB5522 | Removed | No |
| | | 630 | KH063SB5522 | Removed | No |
| Circuit breaker plug-out | 3L+PEN | 1000 | KH040DD411 | Removed | No |
| | | | KH0SB1393108 | Removed | No |
| | | | KH0SB1393132 | Removed | No |
| Others | - | 1000 | KH0SA345794 | Removed | No |
| | | | KH0SB1041086 | Removed | No |
| | | 1500 | KH0SA1088568 | Removed | No |
| | | 2000 | KH0SA1088123 | Removed | No |

Canalis KTA

250 and 630 A tap-off units from Canalis KH range for Compact NSX circuit breakers

IP31

Tap-off units for Compact NSX, fixed, front-connected circuit breakers, not equipped



KH0eeSD5ee

The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

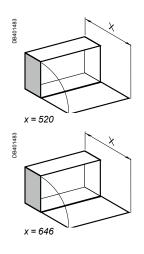
Plug-in tap-off units for extended rotary

| - | • | | | • | | |
|--|-------------------------------|---|---------------------------|---------------|------------|----------------|
| System earthing arrangement ⁽¹⁾ | | Busbar trunking | TT-TNS-TNC-IT | TNC | | |
| | | | Tap-off unit | TT-TNS-TNS-IT | TNC | |
| Tap-off | polarity | | | 3L + N + PE | 3L + PEN | |
| | diagram cuit breaker pro | tection) | | L1 L2 L3 N PE | | |
| Rating (A) | Type of circuit breaker | Cable capacity (mm ²) | Cable clamp on (mm) | Cat. no. | | Weight (kg) |
| 250 | NSX250 N/H/L | 1 x 150 | 3070 | KH025SD541 | KH025SD551 | 32.00 |
| 630 | NSX630 N/H/L | 2 x 300 | 2 x 3070 | KH063SD541 | KH063SD551 | 45.00 |
| | | | | | | |

(1) These units can be fitted either on Canalis KTA or KHF.

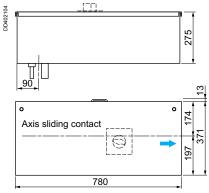
Plug-in tap-off units for motor mechanisme control 220 V - 50 Hz (not supplied)

| | n earthing ement ⁽¹⁾ | | Busbar trunking | TT-TNS-TNC-IT | TNC | |
|---------------|------------------------------------|---|---------------------------|---------------|------------|----------------|
| | | | Tap-off unit | TT-TNS-TNS-IT | TNC | |
| Tap-off | polarity | | | 3L + N + PE | 3L + PEN | |
| | diagram rcuit breaker pro | otection) | | | | |
| Rating (A) | Type of circuit breaker | Cable capacity (mm ²) | Cable clamp on (mm) | Cat. no. | | Weight (kg) |
| 250 | NSX250 N/H/L control 31541 | | | KH025SD542 | KH025SD552 | 32.00 |
| 630 | NSX630 N/H/L control 32841 | | | KH063SD542 | KH063SD552 | 45.00 |



KH025SD....

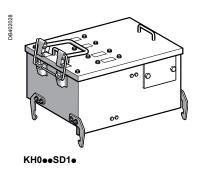
KH063SD...



250 and 630 A tap-off units from Canalis KH range for NF fuses IP31

Canalis KTA

Tap-off units with isolator for blade-type fuses



Tap-off disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

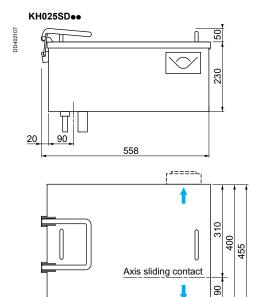
| System earthing arrangement ⁽¹⁾ | | Busbar trunking | TT-TNS-TNC-IT | TNC | | |
|--|--------------|---|---------------------------|---------------|-----------|----------------|
| | | | Tap-off unit | TT-TNS-TNS-IT | TNC | |
| Tap-off polarity | | - | | 3L + N + PE | 3L + PEN | |
| Tap-off diagram (e.g. fuse protec | | | | | | |
| | Fuse size | Cable capacity (mm ²) | Cable clamp on (mm) | Cat. no. | | Weight (kg) |
| 250 | 1 | 1 x 95 | 1 x 30-70 | KH025SD14 | KH025SD15 | 37.00 |
| 630 | 3 | 2 x 185 | 2 x 30-70 | KH063SD14 | KH063SD15 | 56.00 |

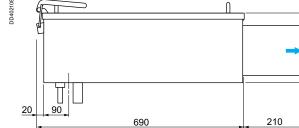
50

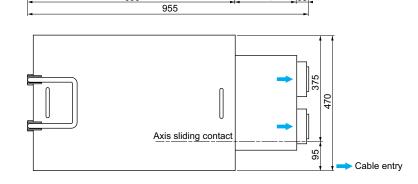
33

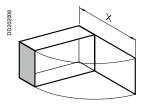
55

(1) These units can be fitted either on Canalis KTA or KHF.

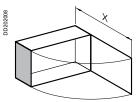








x = 790

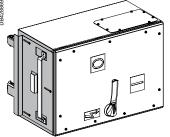


x = 920

KH063SD.

630 A tap-off units from Canalis KH range with switchdisconnector for DIN fuses

SE - Tap-off units with switch-disconnector internal arc tested IEC 61-641



Rati (A) $\overline{630^{\circ}}$

KHB0630SE

The cover of the tap-off unit may be opened or closed only when the switchdisconnector is in the Off position.

To be installed on KT EH type or on former KHF or KGF distribution length.

| | | | | - | | | | - | |
|------|---------------|----------------------------------|--------------------------|--------------|--|------------------|------------------------------|-------------|----------------|
| | | System earth | ning B | lusbar t | runking | | TT-TNS-TNC-IT ⁽¹⁾ | TNC | |
| | | arrangement | | Tap-off unit | | TT-TNS-TNS-IT(1) | TNC | | |
| | | Tap-off polari | ity | | | | 3L + N + PE ⁽²⁾ | 3L + PEN | |
| • | | Tap-off diagra (e.g. fuse pro | | | 500000 800000 | | L1 L2 L3 N PE 82202200 | | |
| ting | Type of fuses | Connection | Max. size L or N / PE | • • | Cable gland ⁽³⁾ (not supplied) | | Cat. no. | Cat. no. | Weight (kg) |
|)(4) | DIN size 3 | Terminals | 2 x 300 / | | ISO 70 max. | Right | KHB0630SE4R | | 72 |
| | | 1 x 150 | | | | Left | KHB0630SE4L | | 72 |
| | | | | | | Right | | KHB0630SE5R | 78 |
| | | | | | | Left | | KHB0630SE5L | 78 |

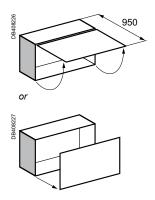
(1) The neutral must be protected or not distributed (3L+PE) for the IT system.

(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).

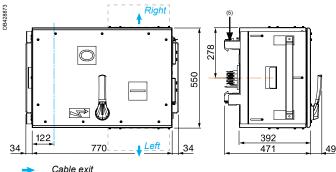
(3) Maximum diameter by unipolar cable.

(4) De-rating coefficient to apply: 0.87.

(5) The tap-off unit is delivered with automatic clamps, the kit of connection bars is included in the reference and delivered in the box.



KHB0630SE



Center line of tap-off outlets

Axis of Canalis KT

- Connection box to be fitted above or below

| Option accessories | Cat. no. |
|---------------------------------------|-------------|
| Extension rotary handle | KTB0630ZA03 |
| Connecting box | KTB0630ZA04 |
| Plate with 5 cable glands 24 to 40 mm | KTB0000GP01 |
| Plate with 1 cable clamp 30 to 70 mm | KTB0000GP02 |
| Plate with 2 cable clamps 30 to 70 mm | KTB0000GP03 |





KTB0630ZA03



KTB0630ZA04

KTB0000GP02

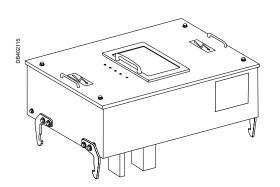


KTB0000GP03

100 to 630 A tap-off units from Canalis KH with disconnector Jean Muller IP43

Canalis KTA

Tap-off units with disconnector Jean Muller

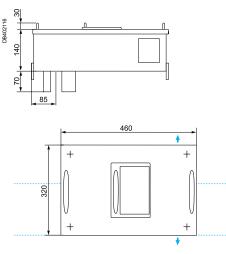


| System earthing arrangement ⁽¹⁾ | | | Busbar trunking | TNC | |
|--|------------------------------|--------------|--------------------------------|-----------|-------|
| | | | Tap-off unit | TNC | |
| Tap-of | f polarity | | 3L + PEN | | |
| | f diagram ise protection) | Cable | L1 L2 L3 N PE | Weight | |
| iui (A) | | Fuse size | capacity (mm ²) | Cat. no. | (kg) |
| 100 | With MULLER disconnector | 00 | 1 x 50 | KH010SD85 | 12.50 |
| 250 | With MULLER disconnector | 1 | 1 x 95 | KH025SD85 | 37.00 |
| 100 | With MULLER disconnector | 2 | 1 x 185 | KH040SD85 | 39.00 |
| 630 | With MULLER disconnector | 3 | 2 x 185 | KH063SD85 | 46.00 |

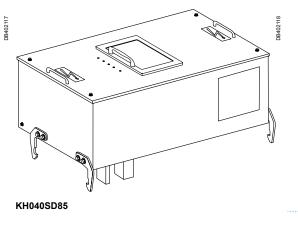
KH010SD85

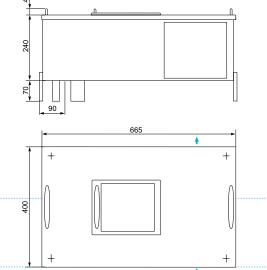
(1) These units can be fitted either on Canalis KTA or KHF.

KH010SD85



KH025SD85 - KH040SD85 - KH063SD85

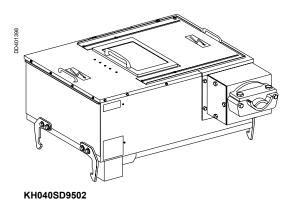




400 and 630 A tap-off units from **Canalis KH with disconnector Jean Muller**

IP43

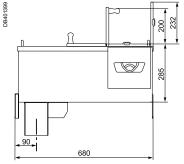
Tap-off units with disconnector internal arc tested IEC 61-641

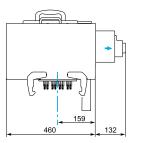


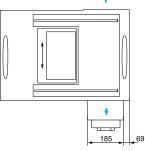
| Syster | System earthing arrangement ⁽¹⁾ | | Busbar trunking | TNC | | |
|---------|--|--------------|----------------------------|-------------|----------------|--|
| | | | Tap-off unit | TNC | | |
| Tap-of | f polarity | | | 3L + PEN | | |
| | f diagram ıse protection) | | | | | |
| lth (A) | | Fuse size | Cable capacity (mm²) | Cat. no. | Weight (kg) | |
| 400 | With MULLER disconnector | 2 | 1 x 185 | KH040SD9502 | 39.00 | |
| 630 | With MULLER disconnector | 3 | 2 x 185 | KH063SD9502 | 46.00 | |

(1) These units can be fitted either on Canalis KTA or KHF.

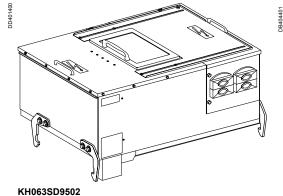




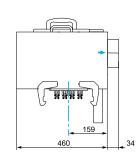


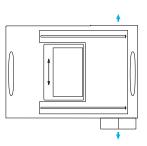


Connecting box is equipped with a 30 to 70 mm aluminium cable clamp.



90, 680





Connecting plate is equipped with 4 plastic cable clamps.





If 2 cables exit are needed, stand alone connecting box can be ordered.

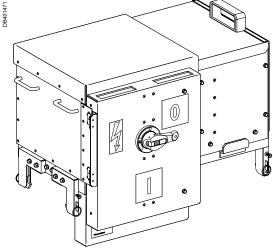
| Designation | Cat. no. |
|---|-----------|
| Connecting box for KH040SD9502 with a 30 to 70 mm aluminium cable clamp | KH040ZA07 |
| Connecting plate for KH063SD9502 with 4 plastic clamps | KH063ZA07 |

KH063ZA07

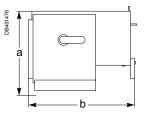
250 to 630 A tap-off units from Canalis KH range with Fupact INF fuse switch

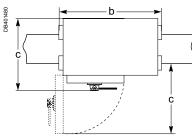
Canalis KTA

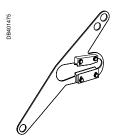
Tap-off units from Canalis KH range with Fupact INF fuse switch



KH0eeSE3e1

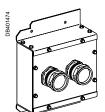






Extension handle.





Cable box with 1 hole + cable gland.

Cable box with 2 hole + cable

glands.

IP43

Tap-off unit installed under voltage, unloaded, for KTA2500, KTA3200, KTA4000.

Functionalities

■ Insulation and protection of the outlet by Fupact fuse-switch Schneider Electric (supplied).

■ To be used only above or below the busbar trunking.

| System earth | ing arrangement ⁽¹⁾ | Busbar trunking | TT-TNS-TNC-IT | TNC |
|----------------------------------|--------------------------------|--------------------------|---------------|---|
| | | Tap-off unit | TT-TNS-TNS-IT | TNC |
| Tap-off polari | ty | | 3L + N + PE | 3L+ PEN |
| Tap-off diagra (e.g. fuse pro | | | | N PE 3 ← 0 2 ← 0 1 ← 0 1 ← 0 0 ← 0 1 ← 0 0 ← 0 1 ← 0 0 ← 0 1 ← 0 0 ← 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Rating (A) | lth (A) | Fuse size (DIN 43653) | Cat. no. | |
| 250 | 250 | 1 | KH025SE341 | KH025SE351 |
| 400 | 350 | 2 | KH040SE341 | KH040SE351 |
| 630 | 500 | 3 | KH063SE341 | KH063SE351 |

(1) These units can be fitted either on Canalis KTA or KHF.

Dimensions KHOeeSE3e1

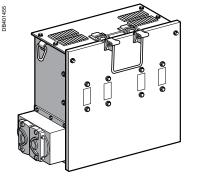
| Dimensions (mm) | KH025SEe1 | KH040SEe1 | KH063SEe1 |
|-----------------|-----------|-----------|-----------|
| а | 569 | 569 | 665 |
| b | 700 | 760 | 765 |
| с | 590 | 590 | 620 |
| d | 165 | 165 | 165 |
| e | 255 | 255 | 285 |
| f | 550 | 550 | 650 |

Optional accessories

| Accessories | Cat. no. |
|--|-----------|
| Extension handle (for KH0eeSE3e1) | KH063ZA03 |
| Cable box with 1 hole (for for KH025SE3●1) (cable gland not supplied, to be ordered separately) | KH025ZA05 |
| Cable box with 1 hole (for for KH040SE3●1) (cable gland not supplied, to be ordered separately) | KH040ZA05 |
| Cable box with 1 hole (for for KH063SE3●1) (cable gland not supplied, to be ordered separately) | KH063ZA05 |
| Cable box with 2 hole (for for KH040SE3●1) (cable gland not supplied, to be ordered separately) | KH040ZA06 |
| Cable box with 2 hole (for for KH063SE3●1) (cable gland not supplied, to be ordered separately) | KH063ZA06 |
| Cable gland (185 - 240 mm²) for cable boxes KH0●●ZA05 and KH0●●ZA06 | KH063ZA10 |

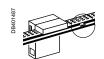
250 to 1000 A fixed tap-off units for Canalis KHF range, with isolator and fuse carriers **IP31**

Tap-off units with isolator for blade-type fuses



KH0eeSB1ee





In front of yellow label.

Opposite of yellow label.



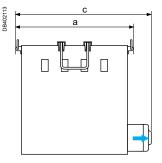
The cover of the tap-off unit may be opened or closed only when the load is switched Off.

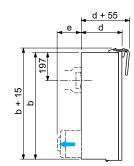
| System earthing arrangement ⁽¹⁾ | | Busbar trunking | IT-TT-TNS | | TT-TNS-TNC-IT | · (3) | |
|--|--------------|---|---------------------------|--------------|----------------|-------------------------|----------------|
| | | | Tap-off unit | IT-TT-TNS | | TT-TNS-TNS-IT | (3) |
| Tap-off | polarity | , | | 3L + PE | | 3L + N + PE | |
| Tap-off ((e.g. fus | | | | | | | |
| Rating (A) | Fuse size | Cable capacity (mm ²) | Cable clamp on (mm) | Cat. no. (4) | Weight (kg) | Cat. no. ⁽⁴⁾ | Weight (kg) |
| 250 | 1 | 1 x 150 | 1 x 30-70 | KH025SB13• | 46.00 | KH025SB14• | 48.00 |
| 630 | 3 | 2 x 300 | 2 x 30-70 | KH063SB13• | 71.00 | KH063SB14• | 75.00 |
| 1000 | 4 | 4 x 185 | - | KH086SB13. | 86.00 | KH086SB14• | 90.00 |

(1) To be installed only on Canalis KHF junction, do not use on Canalis KT. (3) Also suitable for tap-off unit 3L + PE (N not distributed).

(4) The reference number ends with 1 if the tap-off unit is mounted on the identification label side. The reference number ends with 2 if the tap-off unit is mounted on the opposite side to the label.

KH0eeSBeee





| Rating (A) | а | b | С | d | е |
|------------|-----|-----|-----|-----|-----|
| 160/250 | 540 | 500 | 630 | 265 | - |
| 400/630 | 640 | 600 | 750 | 290 | - |
| 1000 | 650 | 485 | - | 300 | 120 |

Connexion equipment for type SB⁽²⁾ tap-off units Note: this equipment sould be ordered at the same time as the SB tap-off unit.

| Type of busbar trunking | SB tap-off unit (except 1000 A) | SB tap-off unit 1000 A only |
|-------------------------|---------------------------------|-----------------------------|
| KHF 14/16 | KH016CB | KH016CB311571 |
| KHF 18 | KH018CB | KH018CB311571 |
| KHF 26/28 | KH026CB | KH026CB311571 |
| KHF 36/38 | КН036СВ | KH036CB311571 |
| KHF 46/48 | KH046CB | KH046CB311571 |
| KHF 56/58 | KH056CB | KH056CB311571 |

(2) The neutral must be not distributed (3L + PE) for the IT system.

Catalogue numbers and dimensions

Fixed tap-off units for Canalis KHF range, for circuit breaker NS630b, NS800, NS1000 IP31

Canalis KTA

DB40148(

Fixed tap-off units for Canalis KHF range

- Tap-off units are installed in the joint of 2 elements⁽¹⁾.
- The link between tap-off unit and busbar trunking is realised by a set connecting
- links (see below the complementary kit catalogue numbers).
- Connection of 3 cables maxi per phase (holes Ø 14).
- Protection indice: IP31.
- Type of circuit breaker:
- □ extended rotary handle ref. 33878
- □ fixed device with Front connection.

| System ea | System earthing arrangement ⁽¹⁾ | | Busbar trunking | IT-TT-TNS | TT-TNS-TNC-IT | |
|---------------------------------|--|--------------------------------|-----------------------------|-------------------------|---------------|----------------|
| | | | Tap-off unit | IT-TT-TNS | TT-TNS-TNS-IT | • |
| Tap-off po | larity | | | 3L + PE | 3L + N + PE | |
| Tap-off dia (e.g. circui | | protection) | | | | |
| Rated current In 35°C (2) | Control | Type of circuit breakers | Side | Cat. no. ⁽³⁾ | | Weight (kg) |
| 1000 A | Manual | N, H, L MG | In front of yellow label | KH086SB5311 | KH086SB5411 | 88.00 |
| | NS630b, NS800, NS1000 ⁽²⁾ | | Opposite of yellow label | KH086SB5312 | KH086SB5412 | 88.00 |

(1) To be installed only on Canalis KHF junction, do not use on Canalis KT.

(2) The circuit breaker more than 1000 A, with the same dimension, cannot be used on these tap-off units.

(3) The reference number ends with 1 if the tap-off unit is mounted on the identification label side. The reference number ends with 2 if the tap-off unit is mounted on the opposite side to the label.

Connexion equipment for type SB5 tap-off units

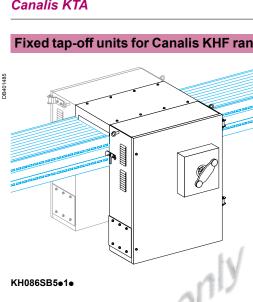
Opposite of yellow label.



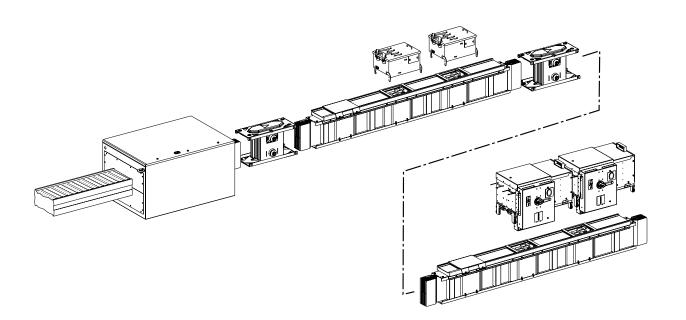
Complementary kit

Note: this equipment should be ordered at the same time as the SB tap-off unit.

| Type of busbar trunking | Cat. no. | Mounting position | |
|----------------------------|-------------|-------------------|---------|
| KHF 14/16/18 | KH018CB86NS | | \sim |
| KHF 26/28 | KH028CB86NS | | \land |
| KHF 36/38 | KH038CB86NS | or | |
| KHF 46/48 | KH048CB86NS | | |
| KHF 56/58 | KH058CB86NS | | |



Expansion of a Canalis KH line by means of Canalis KT



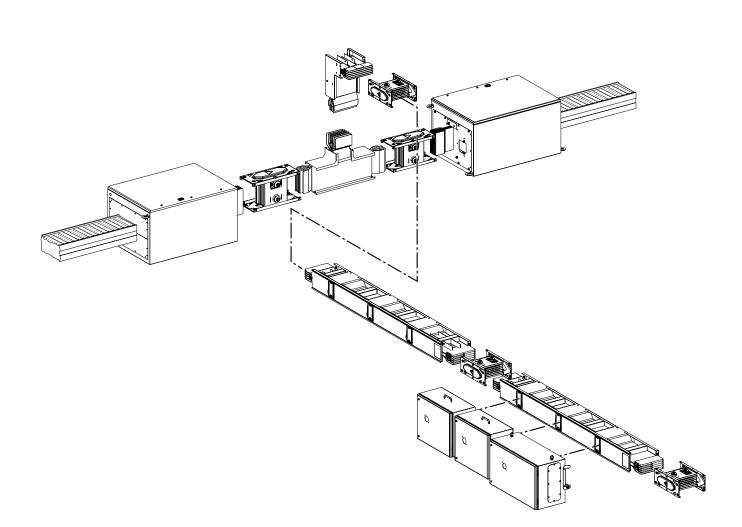
DB401535

Catalogue numbers and dimensions

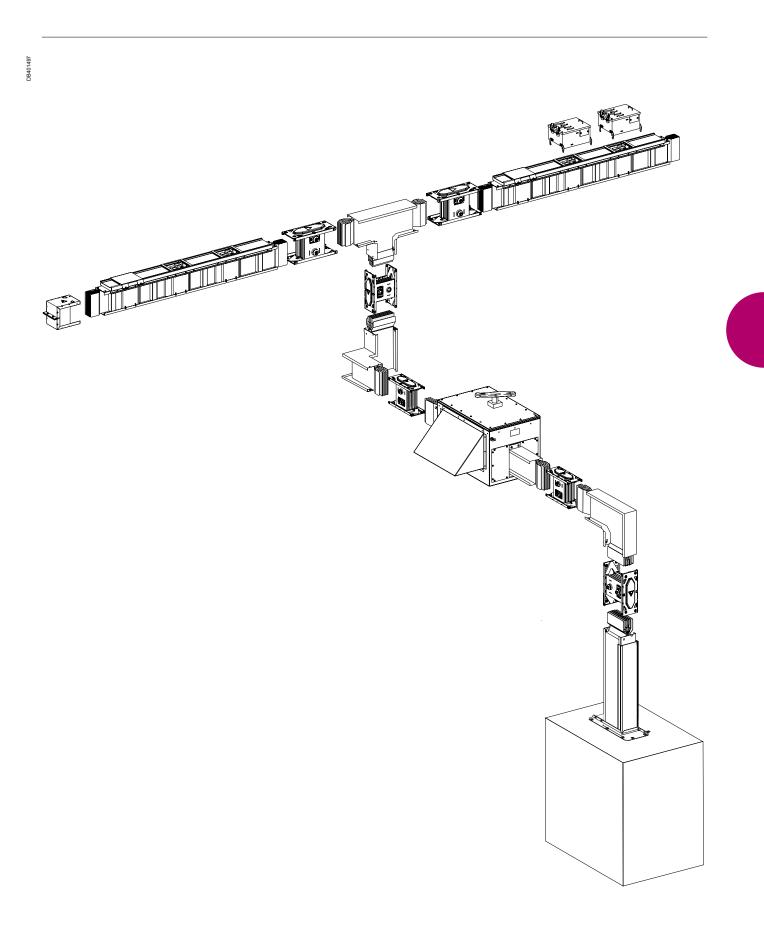
Canalis KTA

DB401534

Expansion of a Canalis KH line by means of Canalis KT with a T-piece tap-off unit



Mid KT line power supply with KH tap-off units installed



Design guide

| Introduction Presentation and description Catalogue numbers and dimensions | 3 23 49 |
|--|---------------------------------|
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Characteristics

Canalis KTA 3L + PE

Canalis KTA

Characteristics of run sections

| | Symbol | Unit | Busbar trunking rating (A) | | | | | | | | |
|---|---------------------------|------|---|------------|-----------|-------------|------------|------|------|------|------|
| General characteristics | | | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Compliance with standards | | | | | | IEC | C/EN 614 | 39-6 | | | |
| Protection degree | IP | | | | | | | | | | |
| | | | Any installation (indoors only) is possible for the busbar truncking: edgewise, flat or vertical. See test condition, page 176. | | | | | ise, | | | |
| Shock resistance | IK | | | | | | 08 | | | | |
| Nominal rated current at an ambient temperature of 35°C | Inc | А | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Rated insulation voltage | Ui | V | V 1000 | | | | | | | | |
| Rated operating voltage | erating voltage Ue V 1000 | | | | | | | | | | |
| Operating frequency | f | Hz | 50/60 (f | or 60 to 4 | 400 Hz AC | c or for DC | C, consult | us) | | | |

Short-circuit current withstand

Standard version 3L + PE

| Allowable rated peak current Ipk kA 64 110 110 143 242 248 189 198 264 Maximum thermal stress l ² t (t = 1 s) l ² t A ² s 10 ⁶ 961 2500 2500 4225 12100 12769 7396 8100 14400 | Allowable rated short-time withstand current (t = 1 s) | Icw | kA | 31 | 50 | 50 | 65 | 110 | 113 | 86 | 90 | 120 |
|---|--|-----|----------------------------------|-----|------|------|------|-------|-------|------|------|-------|
| Maximum thermal stress l ² t (t = 1 s) l ² t A ² s 10 ⁶ 961 2500 2500 4225 12100 12769 7396 8100 14400 | Allowable rated peak current | lpk | kA | 64 | 110 | 110 | 143 | 242 | 248 | 189 | 198 | 264 |
| | Maximum thermal stress I²t (t = 1 s) | l²t | A ² s 10 ⁶ | 961 | 2500 | 2500 | 4225 | 12100 | 12769 | 7396 | 8100 | 14400 |

Ratings 2000 and 2500 A are equipped in standard version with side reinforcements.

Conductor characteristics

Phase conductors

| Average resistance at an ambient temperature of 20°C | R ₂₀ | mΩ/m | 0.079 | 0.057 | 0.046 | 0.035 | 0.028 | 0.023 | 0.017 | 0.014 | 0.0115 |
|--|-----------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Average resistance at Inc and at 35°C | R ₁ | mΩ/m | 0.096 | 0.069 | 0.056 | 0.042 | 0.034 | 0.028 | 0.021 | 0.017 | 0.014 |
| Average reactance at Inc and at 35°C and at 50 Hz | X ₁ | mΩ/m | 0.018 | 0.016 | 0.015 | 0.013 | 0.011 | 0.008 | 0.007 | 0.007 | 0.004 |
| Average impedance at Inc and at 35°C and at 50 Hz | Z ₁ | mΩ/m | 0.097 | 0.071 | 0.058 | 0.044 | 0.035 | 0.029 | 0.022 | 0.018 | 0.0145 |
| PE = casing | | | | | | | | | | | |
| Average resistance at an ambient temperature of 20°C | | mΩ/m | 0.203 | 0.178 | 0.164 | 0.143 | 0.126 | 0.113 | 0.093 | 0.080 | 0.0565 |
| Casing (equivalent copper cross-section) | | mm ² | 120 | 130 | 140 | 155 | 165 | 180 | 190 | 200 | 360 |

Fault loop characteristics

| Symmetrical | Ph/PE | Average resistance | | R _{0 ph/PE} | mΩ/m | 0.809 | 0.676 | 0.587 | 0.490 | 0.420 | 0.370 | 0.303 | 0.256 | 0.185 |
|-------------|------------------------|--------------------|-------|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| components | at 20°C | Average reactance | | X _{0 ph/PE} | mΩ/m | 0.762 | 0.586 | 0.478 | 0.364 | 0.286 | 0.231 | 0.170 | 0.131 | 0.116 |
| method | | Average impedance | | Z _{0 ph/PE} | mΩ/m | 1.111 | 0.895 | 0.757 | 0.610 | 0.508 | 0.436 | 0.347 | 0.288 | 0.218 |
| Impedance | At 20°C | Average resistance | Ph/Ph | R _{b0 ph/ph} | mΩ/m | 0.160 | 0.115 | 0.097 | 0.073 | 0.059 | 0.051 | 0.038 | 0.031 | 0.026 |
| method | | | Ph/PE | R _{b0 ph/PE} | mΩ/m | 0.531 | 0.440 | 0.353 | 0.281 | 0.231 | 0.197 | 0.154 | 0.125 | 0.099 |
| | At Inc and | Average resistance | Ph/Ph | R _{b1 ph/ph} | mΩ/m | 0.193 | 0.140 | 0.120 | 0.091 | 0.075 | 0.066 | 0.049 | 0.039 | 0.033 |
| | at 35°C | | Ph/PE | R _{b1 ph/PE} | mΩ/m | 0.641 | 0.535 | 0.438 | 0.348 | 0.292 | 0.252 | 0.197 | 0.160 | 0.126 |
| | At Inc and | Average reactance | Ph/Ph | X _{b ph/ph} | mΩ/m | 0.040 | 0.029 | 0.024 | 0.019 | 0.015 | 0.013 | 0.010 | 0.008 | 0.007 |
| | at 35°C and at 50 H | z | Ph/PE | $X_{b ph/PE}$ | mΩ/m | 0.426 | 0.329 | 0.275 | 0.212 | 0.170 | 0.141 | 0.106 | 0.084 | 0.071 |

Other characteristics

Voltage drop

| | Line-to-line voltage drop, in volts (V) per 100 metres and per amp (A) at 50 Hz with load spread over the run. For the case of loads concentrated at the end of a run, the voltage drops are double those shown | | | | | | | | | | |
|--|--|---------------|-------------|------------|--------------|------------|-----------|-------------|------------|------------|-----------|
| | in this tab | | or loads t | Uncentra | lieu al life | enuora | run, me v | ollage un | ops are ut | | Se Shown |
| | This calc | ulation table | e applies t | o three-pl | hase load | s. For sin | gle-phase | e loads, th | ne voltage | e drop giv | en in the |
| | table is di | ivided by 1. | 732. | | _ | | | _ | ÷ | | |
| For a cosine ϕ of | 1 | V/100 m/A | 0.0083 | 0.0060 | 0.0049 | 0.0037 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | 0.9 | V/100 m/A | 0.0081 | 0.0060 | 0.0050 | 0.0038 | 0.0030 | 0.0025 | 0.0019 | 0.0016 | 0.00125 |
| | 0.8 | V/100 m/A | 0.0076 | 0.0056 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | 0.7 | V/100 m/A | 0.0069 | 0.0052 | 0.0043 | 0.0034 | 0.0027 | 0.0022 | 0.0017 | 0.0015 | 0.0011 |
| Average weight | | | | | | | | | | | |
| 3L + PE | | kg/m | 12 | 14 | 16 | 19 | 22 | 25 | 31 | 38 | 50 |
| Fire load value | | | | | | | | | | | |
| | | kWh/m | 2.1 | 2.9 | 3.2 | 3.9 | 5.7 | 6.2 | 8.9 | 11.2 | 12.4 |
| Radiated magnetic field | | | | | | | | | | | |
| Radiated magnetic field strength 1 metre from the trunking | В | μT | 0.4 | 0.5 | 0.75 | 0.9 | 1.3 | 1.6 | 2.1 | 3.0 | 3.8 |

Canalis KTA 3L + N + PE

| Characte | eristics o | f run sections | | Character 1 | 11:-:4 | Buch | | | er (🐴) | | | | | |
|---------------------------------|----------------------------|--|----------------|--|--|--------------|-----------------------------|------------------|---------------|------------|------------|-------------|------------|-----------|
| General | characte | ristics | | Symbol | Unit | Busba 800 | r trunki 1000 | ng ratin 1250 | g (A) 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Compliance v | | | | | | | | | | C/EN 614 | | | | |
| Protection de | gree | | | IP | | | | | | 55 | | | | |
| | | | | | | | tallation (i ertical. Se | | | | he busba | ar trunckir | ig: edgew | ise, |
| Shock resista | ince | | | IK | | | | | /I | 08 | | | | |
| | | n ambient temperature | e of 35°C | Inc | A | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Rated insulati Rated operati | | | | Ui Ue | V V | | | | | 1000 | | | | |
| Operating free | 0 0 | | | f | Hz | 50/60(| for 60 to 4 | 400 Hz A0 | C or for D | | us) | | | |
| Short-cir | cuit curr | ent withstand | | | | | | | | | | | | |
| | ersion 3L - | | | | | | | | | | | | | |
| Allowable rate | ed short-time | withstand current (t = | 1 s) | lcw | kA | 31 | 50 | 50 | 65 | 70 | 80 | 86 | 90 | 120 |
| | ed peak curre | | | lpk | kA A ² s 10 ⁶ | 64 | 110 | 110 | 143 | 154 | 176 | 189 | 198 | 264 |
| | rmal stress l ² | t (t = 1 s) L + N + PE for 250 | 0 A and | l ² t 3200 Δ c | | 961 | 2500 | 2500 | 4225 | 4900 | 6400 | 7396 | 8100 | 14400 |
| | | withstand current (t = | | Icw | kA | - | - | - | - | - | 113 | 113 | - | - |
| | ed peak curre | | , | lpk | kA | - | - | - | - | - | 248 | 248 | - | - |
| Maximum the | rmal stress | | | l²t | A ² s 10 ⁶ | - | - | - | - | - | 12769 | 12769 | - | - |
| Conduct | or chara | cteristics | | | | | | | | | | | | |
| Phase con | ductors | | | | | | | | | | | | | |
| | | ambient temperature o | f 20°C | R ₂₀ | mΩ/m | 0.079 | 0.057 | 0.046 | 0.035 | 0.028 | 0.023 | 0.017 | 0.014 | 0.0115 |
| | stance at Inc a | and at 35°C and at 35°C and at 50 | H7 | R ₁ X ₁ | $m\Omega/m$ | 0.096 | 0.069 | 0.056 | 0.042 | 0.034 | 0.028 | 0.021 | 0.017 | 0.014 |
| <u> </u> | | and at 35°C and at 50 and at 35°C and at 50 | | X ₁ Z ₁ | mΩ/m mΩ/m | 0.018 | 0.016 | 0.015 | 0.013 | 0.011 | 0.008 | 0.007 | 0.007 | 0.004 |
| PE = casing | | | | - | | 0.001 | 0.01 | 0.000 | 0.011 | 0.000 | 0.020 | 0.022 | 0.010 | 0.011 |
| | • | ambient temperature o | of 20°C | | mΩ/m | 0.203 | 0.178 | 0.164 | 0.143 | 0.126 | 0.113 | 0.093 | 0.080 | 0.056 |
| Casing (equiv | alent copper/ | cross-section) | | | mm² | 120 | 130 | 140 | 155 | 165 | 180 | 190 | 200 | 360 |
| Fault loo | p charac | cteristics | | | | | | | | | | | | |
| Symmetrical Ph/N | | Average resistance | | $R_{0ph/N}$ | mΩ/m | 0.345 | 0.248 | 0.209 | 0.159 | 0.128 | 0.111 | 0.083 | 0.066 | 0.056 |
| omponents at 20 nethod | at 20°C | Average reactance | | X _{0 ph/N} | mΩ/m | 0.143 | 0.103 | 0.087 | 0.067 | 0.054 | 0.046 | 0.035 | 0.028 | 0.023 |
| nounou | Ph/PE | Average impedance Average resistance | | Z _{0 ph/N} R _{0 ph/PE} | mΩ/m mΩ/m | 0.373 | 0.269 | 0.226 | 0.172 | 0.139 | 0.120 | 0.090 | 0.072 | 0.060 |
| | at 20°C | Average reactance | | X _{0 ph/PE} | $m\Omega/m$ | 0.762 | 0.586 | 0.478 | 0.450 | 0.420 | 0.231 | 0.303 | 0.230 | 0.100 |
| | | Average impedance | | Z _{0 ph/PE} | mΩ/m | 1.111 | 0.895 | 0.757 | 0.610 | 0.508 | 0.436 | 0.347 | 0.288 | 0.218 |
| mpedance | At 20°C | Average resistance | Ph/Ph | R _{b0 ph/ph} | mΩ/m | 0.160 | 0.115 | 0.097 | 0.073 | 0.059 | 0.051 | 0.038 | 0.031 | 0.026 |
| method | | | Ph/N | R _{b0 ph/N} | $m\Omega/m$ | 0.161 | 0.115 | 0.097 | 0.074 | 0.059 | 0.052 | 0.039 | 0.031 | 0.026 |
| | At Inc and | Average resistance | Ph/PE Ph/Ph | R _{b0 ph/PE} R _{b1 ph/ph} | $m\Omega/m$ $m\Omega/m$ | 0.531 | 0.440 | 0.353 | 0.281 | 0.231 | 0.197 | 0.154 | 0.125 | 0.099 |
| | at 35°C | , wordge recictance | Ph/N | R _{b1 ph/ph} | mΩ/m | 0.194 | 0.140 | 0.120 | 0.092 | 0.075 | 0.066 | 0.049 | 0.039 | 0.033 |
| | | | Ph/PE | R _{b1 ph/PE} | mΩ/m | 0.641 | 0.535 | 0.438 | 0.348 | 0.292 | 0.252 | 0.197 | 0.160 | 0.126 |
| | At Inc and at 35°C | Average reactance | Ph/Ph | X _{b ph/ph} | mΩ/m | 0.040 | 0.029 | 0.024 | 0.019 | 0.015 | 0.013 | 0.010 | 0.008 | 0.007 |
| | and at 50 H | z | Ph/N Ph/PE | X _{b ph/N} | mΩ/m mΩ/m | 0.064 | 0.047 | 0.040 | 0.030 | 0.024 | 0.021 | 0.016 | 0.013 | 0.011 |
| 0 41 1. | | 4 | | Ab ph/PE | 11122/111 | 0.420 | 0.329 | 0.275 | 0.212 | 0.170 | 0.141 | 0.100 | 0.004 | 0.071 |
| Other ch Voltage dro | | STICS | | | | | | | | | | | | |
| voltage urc | ,h | | | Line-to-lir | ne voltage o | drop, in vo | lts (V) pe | r 100 met | res and p | er amp (A | () at 50 H | z with loa | d spread | over |
| | | | | the run. F in this tab | or the case | ofloads | concentra | ted at the | end of a | run, the v | oltage dr | ops are d | ouble tho | se show |
| | | | | | ulation table | e applies t | o three-p | hase loac | ls. For sin | gle-phas | e loads, t | he voltage | e drop giv | en in the |
| | | | | table is di | vided by 1. | 732. | | | | | | | | |
| For a cosine of | p of | | | 1 | V/100 m/A | 0.0083 | 0.0060 | 0.0049 | 0.0037 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | | | | 0.9 | V/100 | 0.0081 | 0.0060 | 0.0050 | 0.0038 | 0.0030 | 0.0025 | 0.0019 | 0.0016 | 0.0012 |
| | | | | 0.0 | m/A | 0.0076 | 0.0055 | 0.0017 | 0.0000 | | | 0.0015 | 0.0015 | 0.001 |
| | | | | 0.8 | V/100 m/A | 0.0076 | 0.0056 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | | | | 0.7 | V/100 | 0.0069 | 0.0052 | 0.0043 | 0.0034 | 0.0027 | 0.0022 | 0.0017 | 0.0015 | 0.0011 |
| | | | | | m/A | | | | | | | | | |
| Average we | eight | | | | | | | | | | | | | |
| BL + N + PE | | | | | kg/m | 13 | 16 | 18 | 22 | 26 | 30 | 37 | 45 | 60 |
| Fire load va | alue | | | | | | | | | | | | | |
| | | | | | kWh/m | 2.5 | 3.6 | 4.1 | 5.9 | 7.3 | 8.0 | 11.5 | 14.4 | 16 |
| Dadiated | agnotic fi | ad | | | | | | | | | | | | |
| a amaten m | nagnetic fie | | | В | μT | 0.4 | 0.5 | 0.75 | 0.9 | 1.3 | 1.6 | 2.1 | 3.0 | 3.8 |
| | anetic field str | rength 1 metre from th | e | D | | | | | 0.9 | 1.0 | | Z. 1 | | |

Characteristics

Canalis KTA 3L + N + PER

With an internal aluminium PE conductor

Canalis KTA

| | | | | Symbol | Unit | Busba | r trunki | ng ratin | g (A) | | | | | |
|---------------------|----------------------------|-------------------------------|---------------|---|----------------------------------|-------------|----------------|------------|----------------------------|------------|-------------|--------------|------------|-----------|
| General | characte | ristics | | | | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Compliance v | | s | | | | _ | | | IE | C/EN 614 | 39-6 | | | |
| Protection de | gree | | | IP | | A | | | - 1- 1) : | 55 | | | | |
| | | | | | | | | | niy) is pos ndition, pa | | ne busba | ar trunckin | ıg: eagew | ise, |
| Shock resista | ince | | | IK | | | | | | 08 | | | | |
| Nominal rated | d current at a | n ambient temperature | e of 35°C | Inc | A | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Rated insulat | ion voltage | | | Ui | V | | | | | 1000 | | | | |
| Rated operation | <u> </u> | | | Ue | V | | | | | 1000 | | | | |
| Operating fre | quency | | | f | Hz | 50/60(| tor 60 to 4 | 100 Hz AC | C or for D | C, consult | us) | | | |
| Short-cir | cuit curr | ent withstand | | | | | | | | | | | | |
| Allowable rate | ed short-time | withstand current (t = | 1 s) | Icw | kA | 31 | 50 | 50 | 65 | 70 | 80 | 86 | 90 | 120 |
| Allowable rate | | | | lpk | kA | 64 | 110 | 110 | 143 | 154 | 176 | 189 | 198 | 264 |
| Maximum the | rmal stress l ² | ²t (t = 1 s) | | l²t | A ² s 10 ⁶ | 961 | 2500 | 2500 | 4225 | 4900 | 6400 | 7396 | 8100 | 14400 |
| Conduct | or chara | cteristics | | | | | | | | | | | | |
| Phase con | | | | | | | | | | | | | | |
| | | ambient temperature o | f 20°C | R ₂₀ | mΩ/m | 0.079 | 0.057 | 0.046 | 0.035 | 0.028 | 0.023 | 0.017 | 0.014 | 0.0115 |
| Average resis | | | | R ₁ | mΩ/m | 0.096 | 0.069 | 0.056 | 0.042 | 0.034 | 0.028 | 0.021 | 0.017 | 0.014 |
| | | and at 35°C and at 50 | | X ₁ | mΩ/m | 0.018 | 0.016 | 0.015 | 0.013 | 0.011 | 0.008 | 0.007 | 0.007 | 0.004 |
| • · | | and at 35°C and at 50 | | Z ₁ | mΩ/m | 0.097 | 0.071 | 0.058 | 0.044 | 0.035 | 0.029 | 0.022 | 0.018 | 0.0145 |
| | | um protective con | | | Ct | 0.00- | 0.077 | 0.015 | 0.00- | 0.00 | 0.00- | 0.005 | 0.045 | 0.011 |
| v | | ambient temperature o | t 20°C | | mΩ/m mm² | 0.065 | 0.052 300 | 0.046 | 0.037 480 | 0.031 | 0.028 | 0.022 960 | 0.018 | 0.014 |
| Aluminium cr | oss-section | | | | mm - | 210 | 300 | 360 | 480 | 600 | 720 | 960 | 1200 | 1440 |
| Fault loo | p charac | cteristics | | | | | | | | | | | | |
| Symmetrical | | Average resistance | | R _{0 ph/N} | mΩ/m | 0.345 | 0.248 | 0.209 | 0.159 | 0.128 | 0.111 | 0.083 | 0.066 | 0.056 |
| components | at 20°C | Average reactance | | $X_{0 \text{ ph/N}}$ | mΩ/m | 0.143 | 0.103 | 0.087 | 0.067 | 0.054 | 0.046 | 0.035 | 0.028 | 0.023 |
| method | | Average impedance | | Z _{0 ph/N} | mΩ/m | 0.373 | 0.269 | 0.226 | 0.172 | 0.139 | 0.120 | 0.090 | 0.072 | 0.060 |
| | Ph/PE | Average resistance | | R _{0 ph/PE} | mΩ/m | 0.479 | 0.342 | 0.287 | 0.218 | 0.175 | 0.153 | 0.114 | 0.091 | 0.077 |
| | at 20°C | Average reactance | | X _{0 ph/PE} | mΩ/m | 0.236 | 0.168 | 0.142 | 0.108 | 0.087 | 0.075 | 0.057 | 0.045 | 0.038 |
| Immedance | A+ 20°C | Average impedance | | Z _{0 ph/PE} | $m\Omega/m$ | 0.534 | 0.381 | 0.321 | 0.243 | 0.196 | 0.171 | 0.127 | 0.102 | 0.086 |
| Impedance method | At 20°C | Average resistance | Ph/Ph Ph/N | R _{b0 ph/ph} | $m\Omega/m$ $m\Omega/m$ | 0.160 | 0.115 0.115 | 0.097 | 0.073 | 0.059 | 0.051 | 0.038 | 0.031 | 0.026 |
| motriod | | | Ph/PE | R _{b0 ph/N} R _{b0 ph/PE} | $m\Omega/m$ | 0.101 | 0.113 | 0.108 | 0.074 | 0.059 | 0.052 | 0.039 | 0.031 | 0.020 |
| | At Inc and | Average resistance | Ph/Ph | R _{b1 ph/PE} | $m\Omega/m$ | 0.193 | 0.120 | 0.100 | 0.002 | 0.000 | 0.066 | 0.049 | 0.034 | 0.023 |
| | at 35°C | / Wordgo roolotanoo | Ph/N | R _{b1 ph/N} | mΩ/m | 0.194 | 0.140 | 0.120 | 0.092 | 0.075 | 0.066 | 0.049 | 0.039 | 0.033 |
| | | | Ph/PE | R _{b1ph/PE} | mΩ/m | 0.214 | 0.155 | 0.133 | 0.102 | 0.084 | 0.075 | 0.056 | 0.036 | 0.038 |
| | At Inc and | Average reactance | Ph/Ph | X _{b ph/ph} | mΩ/m | 0.040 | 0.029 | 0.024 | 0.019 | 0.015 | 0.013 | 0.010 | 0.008 | 0.007 |
| | at 35°C | | Ph/N | X _{b ph/N} | mΩ/m | 0.064 | 0.047 | 0.040 | 0.030 | 0.024 | 0.021 | 0.016 | 0.013 | 0.011 |
| | and at 50 H | Z | Ph/PE | $X_{b ph/PE}$ | mΩ/m | 0.095 | 0.069 | 0.058 | 0.044 | 0.036 | 0.031 | 0.023 | 0.019 | 0.016 |
| Other ch | aracteris | stics | | | | | | | | | | | | |
| Voltage dro | | | | | | | | | | | | | | |
| | 7 | | | Line-to-lir | ne voltage o | drop, in vo | lts (V) pe | r 100 met | res and p | er amp (A | A) at 50 H | z with loa | d spread | over |
| | | | | the run. F | or the case | | | | | | | | | |
| | | | | in this tab | le. Jation table | o applias t | o throo n | hasa loac | le Foreir | alo phas | o loade ti | ho voltag | a drop giv | on in the |
| | | | | | vided by 1. | | o unee-p | liase luad | 15.1 01 511 | gie-pilas | e ioaus, li | ne voltage | e urop giv | |
| For a cosine of | p of | | | 1 | V/100 | 0.0083 | 0.0060 | 0.0049 | 0.0037 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | | | | | m/A | | | <u> </u> | L | | | | | |
| | | | | 0.9 | V/100 | 0.0081 | 0.0060 | 0.0050 | 0.0038 | 0.0030 | 0.0025 | 0.0019 | 0.0016 | 0.0012 |
| | | | | 0.8 | m/A V/100 | 0.0076 | 0.0056 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | | | | 0.0 | m/A | 0.0076 | 0.0050 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 |
| | | | | 0.7 | V/100 | 0.0069 | 0.0052 | 0.0043 | 0.0034 | 0.0027 | 0.0022 | 0.0017 | 0.0015 | 0.0011 |
| | | | | | m/A | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Average w | | | | | | | | | | | | | | |
| 3L + N + PER | | | | | kg/m | 15 | 19 | 21 | 26 | 31 | 36 | 46 | 56 | 72 |
| Fire load v | alue | | | | | | | | 1 | 1 | | L | L | |
| i ilo loud li | | | | | kWh/m | 2.5 | 3.6 | 4.1 | 5.9 | 7.3 | 8.0 | 11.5 | 14.4 | 16 |
| | | | | | | | | | | | | | | |
| Radiated m | | eld rength 1 metre from th | | В | μT | 0.4 | 0.5 | 0.75 | 0.9 | 1.3 | 1.6 | 2.1 | 3.0 | 3.8 |

With an internal copper PE conductor and reinforced Icw

| - | - | | | Symbol | Unit | | | ng ratin | T • 7 | | | | | |
|--------------------------------|------------------------|---------------------------------------|---------------|---|---|--------------------------|--------------|------------|----------------|------------------------------|--------------------|------------|------------|----------|
| General o | | | | | | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| Compliance w Protection dec | | 5 | | IP | | Any ins | tallation (i | ndoors o | | C/EN 614 55 ssible for | 139-6 the busba | r trunckir | ng: edgew | vise, |
| | | | | | | flat or v | ertical. Se | e test cor | ndition, pa | · · | | | | |
| Shock resistar | | a ambient temperatur | o of 25°C | IK Inc | A | 800 | 1000 | 1250 | 1600 | 08 | 2500 | 3200 | 4000 | 5000 |
| Rated insulation | | n ambient temperature | 901 35 C | Ui | A V | 800 | 1000 | 1250 | 1600 | 1000 | 2500 | 3200 | 4000 | 5000 |
| Rated operatin | 0 | | | Ue | V | | | | | 1000 | | | | |
| Operating free | 0 0 | | | f | Hz | 50/60(| for 60 to 4 | 400 Hz A0 | C or for D | C, consul | t us) | | | |
| Short-cir | cuit curr | ent withstand | | | | | | | | | | | | |
| | | withstand current (t = | 1 s) | Icw | kA | 35 | 65 | 65 | 85 | 110 | 113 | 113 | 120 | 120 |
| Allowable rate | | · · · | / | lpk | kA | 73 | 143 | 143 | 187 | 242 | 248 | 248 | 264 | 264 |
| Maximum the | rmal stress | | | l²t | A ² s.10 ⁶ | 1225 | 4225 | 4225 | 7225 | 12100 | 12769 | 12769 | 14400 | 1440 |
| Conducto | or chara | cteristics | | | | | | | | | | | | |
| Phase conc | | | | _ | | | | | | | | | | |
| | | mbient temperature o | ot 20°C | R ₂₀ | $m\Omega/m$ | 0.079 | 0.057 | 0.046 | 0.035 | 0.028 | 0.023 | 0.017 | 0.014 | 0.011 |
| Average resis | | and at 35°C and at 50 | Hz | R ₁ X ₁ | mΩ/m mΩ/m | 0.096 | 0.069 | 0.056 | 0.042 | 0.034 | 0.028 | 0.021 | 0.017 | 0.014 |
| | | and at 35°C and at 50 | | Z ₁ | $m\Omega/m$ | 0.010 | 0.071 | 0.058 | 0.044 | 0.035 | 0.029 | 0.022 | 0.007 | 0.004 |
| | | protective conduc | | | | | | | | | | | | |
| | | mbient temperature c | | | mΩ/m | 0.050 | 0.039 | 0.034 | 0.026 | 0.022 | 0.019 | 0.014 | 0.012 | 0.009 |
| Copper cross- | section | | | | mm² | 210 | 300 | 360 | 480 | 600 | 720 | 960 | 1200 | 1440 |
| Fault loo | o charad | teristics | | | | | | | | | | | | |
| Symmetrical | | Average resistance | | $R_{0\text{ph/N}}$ | mΩ/m | 0.345 | 0.248 | 0.209 | 0.159 | 0.128 | 0.111 | 0.083 | 0.066 | 0.056 |
| components | at 20°C | Average reactance | | X _{0 ph/N} | mΩ/m | 0.143 | 0.103 | 0.087 | 0.067 | 0.054 | 0.046 | 0.035 | 0.028 | 0.023 |
| nethod | | Average impedance | | Z _{0 ph/N} | mΩ/m | 0.373 | 0.269 | 0.226 | 0.172 | 0.139 | 0.120 | 0.090 | 0.072 | 0.060 |
| | | Average resistance | | R _{0 ph/PE} | mΩ/m | 0.247 | 0.186 | 0.160 | 0.125 | 0.102 | 0.087 | 0.067 | 0.054 | 0.044 |
| | at 20°C | Average reactance | | X _{0 ph/PE} | mΩ/m | 0.111 | 0.087 | 0.077 | 0.062 | 0.017 | 0.045 | 0.035 | 0.029 | 0.023 |
| | AL 00%0 | Average impedance | | Z _{0 ph/PE} | mΩ/m | 0.270 | 0.205 | 0.177 | 0.139 | 0.104 | 0.098 | 0.075 | 0.061 | 0.049 |
| mpedance nethod | At 20°C | Average resistance | Ph/Ph Ph/N | R _{b0 ph/ph} | mΩ/m mΩ/m | 0.160 | 0.115 | 0.097 | 0.073 0.074 | 0.059 | 0.051 | 0.038 | 0.031 | 0.026 |
| notiou | | | Ph/PE | R _{b0 ph/N} R _{b0 ph/PE} | $m\Omega/m$ | 0.135 | 0.099 | 0.097 | 0.074 | 0.059 | 0.032 | 0.039 | 0.031 | 0.020 |
| | At Inc and | Average resistance | Ph/Ph | R _{b1 ph/pE} | mΩ/m | 0.193 | 0.140 | 0.120 | 0.004 | 0.075 | 0.066 | 0.049 | 0.039 | 0.022 |
| | at 35°C | · · · · · · · · · · · · · · · · · · · | Ph/N | R _{b1 ph/N} | mΩ/m | 0.194 | 0.140 | 0.120 | 0.092 | 0.075 | 0.066 | 0.049 | 0.039 | 0.033 |
| | | | Ph/PE | R _{b1 ph/PE} | mΩ/m | 0.162 | 0.120 | 0.102 | 0.078 | 0.065 | 0.055 | 0.041 | 0.035 | 0.028 |
| | At Inc and | Average reactance | Ph/Ph | $X_{b ph/ph}$ | mΩ/m | 0.040 | 0.029 | 0.024 | 0.019 | 0.015 | 0.013 | 0.010 | 0.008 | 0.007 |
| | at 35°C and at 50 H | 7 | Ph/N | X _{b ph/N} | mΩ/m | 0.064 | 0.047 | 0.040 | 0.030 | 0.024 | 0.021 | 0.016 | 0.013 | 0.011 |
| Other ch | | | Ph/PE | $X_{bph/PE}$ | mΩ/m | 0.047 | 0.037 | 0.032 | 0.026 | 0.022 | 0.019 | 0.014 | 0.012 | 0.010 |
| Other cha Voltage dro | | SUCS | | | | | | | | | | | | |
| | | | | run. For tl this table. This calcu | ne voltage ne case of ulation tabl vided by 1. | loads con e applies t | centrated | at the en | d of a run | , the volta | ge drops | are doub | le those s | shown ir |
| For a cosine φ | of | | | 1 | V/100 m/A | 0.0083 | | 0.0049 | 0.0037 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.001 |
| | | | | 0.9 | V/100 m/A | 0.0081 | 0.0060 | 0.0050 | 0.0038 | 0.0030 | 0.0025 | 0.0019 | 0.0016 | 0.001 |
| | | | | 0.8 | V/100 m/A | 0.0076 | 0.0056 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.001 |
| | | | | 0.7 | V/100 m/A | 0.0069 | 0.0052 | 0.0043 | 0.0034 | 0.0027 | 0.0022 | 0.0017 | 0.0015 | 0.001 |
| Average we | eight | | | | | | | | | | | | | |
| 3L + N + PER | | | | | kg/m | 15 | 19 | 21 | 26 | 31 | 36 | 46 | 56 | 72 |
| Fire load va | alue | | | | | | | | | | | | | |
| Padiated | agnetic fie | | | | kWh/m | 2.5 | 3.6 | 4.1 | 5.9 | 7.3 | 8.0 | 11.5 | 14.4 | 16 |
| | aunetic fle | au | | | | | | | | | | | | |
| | | ength 1 metre from th | ۵ | В | μT | 0.4 | 0.5 | 0.75 | 0.9 | 1.3 | 1.6 | 2.1 | 3.0 | 4.5 |

Canalis KTA

Characteristics of run sections

Other characteristics

Choice of products when harmonics are present (see "harmonic currents" for more details).

| THD ≤ 15 % | 15 % < THD ≤ 33 % | THD > 33 % | Busbar trunking | Rating (A) |
|------------|-------------------|------------|-----------------|------------|
| 800 | 630 | 500 | KTA | 800 |
| 1000 | 800 | 630 | KTA | 1000 |
| 1200 | 1000 | 800 | KTA | 1250 |
| 1600 | 1250 | 1000 | KTA | 1600 |
| 2000 | 1600 | 1250 | KTA | 2000 |
| 2500 | 2000 | 1600 | KTA | 2500 |
| 3200 | 2500 | 2000 | KTA | 3200 |
| 4000 | 3200 | 2500 | KTA | 4000 |
| 5000 | 4000 | 3200 | KTA | 5000 |

Example. For a total rms current of 2356 A (estimation based on power drawn by loads, including harmonics), the operational current is 2500 A. THD is estimated at 30 %. The appropriate trunking is KTA 3200 A.

Allowable current as a function of ambient temperature

Canalis busbar trunking is sized to operate at an ambient air which does not exceed +40°C and its average over a period of 24 h does not exceed +35°C. Above this value, the busbar trunking must be derated.

Where k1 = ambient temperature derating coefficient.

| | Symbol | Unit | Ambiant tempe | rature 24 hours a | average | | |
|--|--------|------|-----------------|---------------------|-------------------|-------------------|----------|
| | | °C | 35 | 40 | 45 | 50 | 55 |
| Busbar trunking installed indoors | k1 | % | k1=1 | k1=0.97 | k1=0.93 | k1=0.90 | k1=0.86 |
| Busbar trunking installed outside under an aluminium roof | k1 | % | See "Busbar tru | nking installed out | side under an alu | minium roof" on p | age 159. |
| Busbar trunking installed in a fire duct | k1 | % | Please, see you | r sales office. | | | |

Through-wall fire barrier

Tests performed in accordance with the requirements of NF EN 1363-1 and those specific to EN 1366-3.

| | Performance criteria | |
|-------------------------------|----------------------|--------------------|
| | Fire integrity | Thermal insulation |
| Without external fire barrier | 120 mn | 30 mn |
| With external fire barrier | 120 mn | 120 mn |

Tap-off unit characteristics

| General characteristics | Symbol | Unit | |
|--------------------------|--------|------|---|
| Protection degree | IP | | 55 |
| Shock resistance | IK | | 08 |
| Rated insulation voltage | Ui | V | 400 or 500 depending on protection device |
| Rated operating voltage | Ue | V | |
| Operating frequency | f | Hz | 50/60 |

Derating to apply to the KTA5000

| Installation type | Utilisation | |
|-----------------------|-------------|--------------|
| | Transport | Distribution |
| Edgewise installation | 0.96 | 0.9 |
| Flatwise installation | 0.85 | 0.85 |

Life Is On Schneider 157

Determining the rating Providing power distribution using Canalis

Canalis KTA

Apart from extreme atmospheres, Canalis can be installed anywhere!

The order described below is only aimed at presenting the different stages for a simple installation.

For a detailed design, it is necessary to use appropriate tools, approved by control bodies, in compliance with local installation standards. The *Ecodial* software, edited by Schneider Electric, meets this requirement perfectly.

Design order:

1 – Define run layouts.

- 2 Identify external influences.
- 3 Determine the current rating (lb).
- 4 Calculate the nominal current (In) taking into account derating coefficients.
- 5 Choose the busbar trunking rating.
- 6 Check the rating with respect to allowable voltage drop.
- 7 Check busbar trunking overloads.
- 8 Check the rating with respect to short-circuit withstand current.
- 9 Choose the source and feeder circuit breakers.

1 - Canalis busbar trunking layout

The layout of the distribution runs depends on the position of the loads and where the source is located.

Load protection is placed in the tap-off boxes, at the point of use.

A single and same Canalis busbar trunking supplies a group of loads of different ratings.

Schneider Electric has tools you can use to help you choose the architecture best suited to your application:

■ the Idpro software to simulate the organisation of your electrical networks

■ application orientated technical guides (car industry, data centers, shopping centres, etc).

2 - Identification of external influences



Protection degree

Canalis KT busbar trunking is IP55 and IPxxD by construction. This protection degree protects the busbar trunking against:

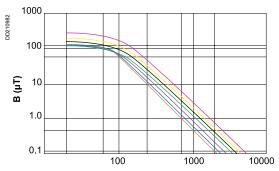
- dust
- penetration by a 1mm diameter wire
- water projections from all directions.

It can be installed in almost all premises; for more details see the "Determining the protection degree" "Degree of protection IP", page 176.

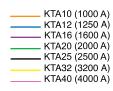
Wherever the busbar trunking must pass outside the building, an aluminium roof can be supplied; consult your Schneider Electric distributor for information concerning this option.

Corrosive atmosphere

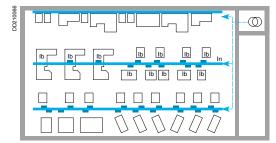
The busbar trunking has been qualified for industrial atmospheres. For sulphurous atmospheres such as sulphur dioxide (SO_2) and hydrogen sulphide (H_2S) , there is a suitable Canalis KT solution; consult your Schneider Electric distributor for more information on this option. **Example:** paper mills, water treatment works, etc.



distance from the center of the Busbar (mm)



3 - Determining the current rating (lb)



Radiated electromagnetic fields

According to the WHO (World Health Organisation), exposure to radiated electromagnetic fields above 0.2 micro Tesla can be dangerous causing a risk of cancer over the long term. Some countries have standardised the limit: Sweden = 0.2μ 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.

Calculation of the total current (Ib) absorbed by a run is equal to the sum of the currents absorbed by all of the loads.

The loads do not all operate at the same time and, as they are not continuously at full load, a stacking or simultaneity factor Ks has to be taken into account: Ib = Σ Ib load x Ks

Stacking factor Ks depending on the number of loads according to IEC 61439-1

| Application | Number of loads | Ks coefficient |
|---------------------|-----------------|----------------|
| Lighting, heating | - | 1 |
| Distribution | 23 | 0.9 |
| (mechanic workshop) | 45 | 0.8 |
| | 69 | 0.7 |
| | 1040 | 0.6 |
| | 40 and over | 0.5 |

Caution: for industrial installations, remember to take into account future increases in the number of machines. A 20 % reserve is recommended.

4 - Calculating nominal current (In) by applying a derating coefficient

Ambient temperature

Canalis busbar trunking is sized to operate at an average ambient temperature of +35°C. Above this value, the busbar trunking must be derated.

Example: Canalis KTA1250 A installed inside with an ambient temperature of 45° C: In = 1250 x 0.93 = 1162 A.

 $ln \ge lb \times k1 = lz$

Where k1 = ambient temperature derating coefficient.

| Type of installation | | Canalis KT | Ambient temperature 24 hours average (°C) | | | | | |
|---|------------------------|---------------|---|------------|--------------|------|------|--|
| | | | 35 | 40 | 45 | 50 | 55 | |
| Busbar trunking installed inside | \mathbb{T} | All | 1 | 0.97 | 0.93 | 0.90 | 0.86 | |
| Busbar trunking installed outside under an aluminium roof | $\widehat{\mathbb{T}}$ | All | 0.86 | 0.83 | 0.80 | 0.77 | 0.74 | |
| Busbar trunking installed in a fire duct | | | Please, s | ee your sa | lles office. | | | |

Sizing the busbar trunking

Canalis KTA

5 - Choosing the busbar trunking rating according to the nominal current In

| Nominal current In (A) | Busbar trunking | |
|------------------------|-----------------|--|
| 0 to 800 | KTA0800 | |
| 801 to 1000 | KTA1000 | |
| 1001 to 1250 | KTA1250 | |
| 1251 to 1600 | KTA1600 | |
| 1601 to 2000 | KTA2000 | |
| 2001 to 2500 | KTA2500 | |
| 2501 to 3200 | KTA3200 | |
| 3201 to 4000 | KTA4000 | |
| 4001 to 5000 | KTA5000 | |

6 - Checking the rating with respect to allowable voltage drop

The voltage drop between the start and all points of use must not be greater than the values in the table below:

| Installation supplied by: | Lighting | Other use |
|---|----------|-----------|
| Low voltage public distribution network | 3 % | 5 % |
| High voltage distribution network | 6 % | 8 % |

The allowable voltage drop is that which is compatible with correct load operation (refer to manufacturers' guides).

■ Read voltage drop in V/100 m/A for the busbar trunking chosen in accordance with temperature rise.

■ Determine the voltage drop for the worst case loads, i.e. those furthest from the source and for the highest current.

If the voltage drop exceeds allowable limits, choose the next rating up.

Re-check the voltage drop for the new rating.

Voltage drop, in volts per 100 metres and per amp for 3-phase 50 Hz current with load spread over the run. For loads concentrated at the end of a run (transport), the voltage drops are double those shown in the table below:

| Delta U for evenly distributed loads (V/100m/A) | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|---------|--|--|--|
| | KTA08 | KTA10 | KTA12 | KTA16 | KTA20 | KTA25 | KTA32 | KTA40 | KTA50 | | | |
| Cosine $\varphi = 1$ | 0.0083 | 0.0060 | 0.0049 | 0.0037 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 | | | |
| Cosine ϕ = 0.9 | 0.0081 | 0.0060 | 0.0050 | 0.0038 | 0.0030 | 0.0025 | 0.0019 | 0.0016 | 0.00125 | | | |
| Cosine ϕ = 0.8 | 0.0076 | 0.0056 | 0.0047 | 0.0036 | 0.0029 | 0.0024 | 0.0018 | 0.0015 | 0.0012 | | | |
| Cosine ϕ = 0.7 | 0.0069 | 0.0052 | 0.0043 | 0.0034 | 0.0027 | 0.0022 | 0.0017 | 0.0015 | 0.0011 | | | |

Example: for the KTA1600 A busbar trunking:

Ib = 1530 A In = 1600 A Length L = 87 m Cosine ϕ = 0.8. According to the above table, the voltage drop coefficient for 100 metres and per amp is equal to 0.0036 V/100 m/A.

0.0036 x 0.87 x 1530 = 4.79 V For a voltage = 400 V, in percentages: 4.79/400 = 0.0119 that is to say 1.2 %.

7 - Protecting against busbar trunking overloads

To allow for extensions, the busbar trunking is generally protected at its nominal current Inc (or its allowable current Iz if the ambient temperature coefficient k1 is applied).

Circuit breaker protection:

□ adjust Ir of the circuit breaker such that:

 $|z = |b x k| \le |r \le |nc|$

Circuit breaker protection allows the Canalis busbar trunking to be used at full capacity because the standardised nominal current In of the circuit breaker is $\ln \leq \ln c / K2$ where K2 = 1.

Protection using gG (gl) fuse:

 \Box determine the standardised nominal current In of the fuse such that: In \leq Inc/K2 where K2 = 1.1.

□ choose the standardised rating In that is equal to or just lower.

Check the following condition: $\ln \ge \ln x \, k1 = lz$.

If this condition is not met, choose the busbar trunking with the next rating up.

Note: using gl fuses for protection means reducing the busbar trunking's allowable current.

8 - Checking the rating and choice of circuit breaker with respect to short-circuit withstand current

Short-circuit current withstand is shown in the table below. This value must be greater than the prospective short-circuit current, at all points of

the installation.

Calculate the short-circuit current value at the worst case points.

■ Check the chosen rating allows the busbar trunking to cope with this short-circuit current.

If this is not the case, there are 2 possible solutions:

■ choose a higher rating busbar trunking and re-check

■ provide a peak current limiting protection system upstream of the busbar trunking.

Warning: regarding the TNS or TNC earthing system, based on the value of L-PE fault loop impedance and the level of L-PE short-circuit, choose the correct coordination between the protection and the busbar trunking.

Canalis KT is more than sized to cope with short-circuit currents. Some specific cases require checks to be carried out: transformers in parallel, low rating Canalis installed close to a transformer, etc.

Protection of circuits supplied by several paralleled transformers

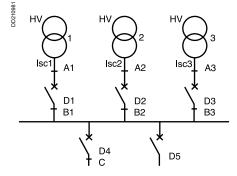
Canalis KTA

9 - Choosing source and feeder circuit breakers according to the number and rating of the supply transformers

The choice of a circuit breaker to protect a circuit depends mainly on the following 2 criteria

■ the nominal current of the source or the loads, which determines the appropriate rating of the device

the maximum short-circuit current at the point in question, which determines the minimum breaking capacity of the device.



For the case of several parallel transformers⁽¹⁾:

■ the source circuit breaker D1 must have a breaking capacity greater than the largest of the 2 following values:

□ either Isc1 (short-circuit at B1)

□ or lsc2 + lsc3 (short-circuit at A1)

■ the feeder circuit breaker D4 must have a breaking capacity greater than lsc1 + lsc2 + lsc3

The table allows the following to be determined:

■ the source circuit breaker, according to the number and rating of the supply transformers (in the case of a single transformer, the table recommends a fixed circuit breaker; in the case of several transformers, the table shows a drawout circuit breaker and a fixed circuit breaker)

■ the feeder circuit breaker, according to the sources and the nominal current rating of the feeder (the circuit breakers shown in the table can be replaced by limiter circuit breakers if the cascading technique is to be used with other circuit breakers downstream of the feeder).

(1) To couple several transformers in parallel, the transformers must have the same Usc, the same transformation ratio, the same coupling and the ratio of the power rating of the 2 transformers must be less than or equal to 2.

Example:

3 incoming 1250 kVA transformers 20 kV/410 V (In = 1760 A).

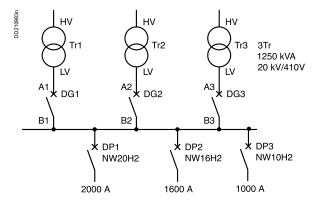
Feeders: including one 2000 A feeder, one 1600 A feeder and one 1000 A feeder. What circuit breakers should be fitted at the incomer and for the feeders? Incomer circuit breakers:

either the Drawout Masterpact NW20N1 or the Drawout NS2000N circuit breakers can be chosen. The choice will depend on the options required.

Feeder circuit breakers:

the NW20H2 for the 2000 A feeder, the NW16H2 for the 1600 A feeder and the NW10H2 for the 1000 A feeder are to be chosen.

These circuit breakers have the advantage of providing discrimination (full discrimination) with the NW12H1 or NS1250N circuit breakers.



Calculation assumption:

■ the upstream network short-circuit power is not defined

■ the transformers are 20 kV/410 V

■ between each transformer and corresponding circuit breaker there is 5 metres of KT busbar trunking

between a source circuit breaker and a feeder circuit breaker there is 1 metre of

■ the equipment is installed into a switchboard with an ambient temperature of 40°C.

| Transfor | rmer | | | Source | Source circuit breaker | Feeder Feeder circuit breaker | | | | | |
|-----------|--------|------------|-------------|--------------------------------|----------------------------------|--------------------------------|---------|---------|---------|---------|---------|
| P (kVA) | In (A) | Usc (%) | lsc (kA) | min. break. cap. (kA) | | min. break. cap. (kA) | ≤ 100 A | 160 A | 250 A | 400 A | 630 A |
| 1 transfe | ormer | | | | | | | | | | |
| 50 | 70 | 4 | 2 | 2 | NSX100N TM-D/STR22SE | 2 | NSX100N | | | | |
| 100 | 141 | 4 | 4 | 4 | NSX160N TM-D/STR22SE | 4 | NSX100N | NSX160N | | | |
| 160 | 225 | 4 | 6 | 6 | NSX250N TM-D/STR22SE | 6 | NSX100N | NSX160N | NSX250N | | |
| 250 | 352 | 4 | 9 | 9 | NSX400N STR23SE/53UE | 9 | NSX100N | NSX160N | NSX250N | NSX400N | |
| 400 | 563 | 4 | 14 | 14 | NSX630N STR23SE/53UE | 14 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 630 | 887 | 4 | 22 | 22 | NS1000N NT10H1 NW10N1 Micrologic | 22 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 800 | 1127 | 6 | 19 | 19 | NS1250N NT12H1 NW12N1 Micrologic | 19 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 1000 | 1408 | 6 | 23 | 23 | NS1600N NT16H1 NW16N1 Micrologic | 23 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 1250 | 1760 | 6 | 29 | 29 | NW20N1 Micrologic | 29 | NSX100H | NSX160N | NSX250N | NSX400N | NSX630N |
| 1600 | 2253 | 6 | 38 | 38 | NW25H1 Micrologic | 38 | NSX100H | NSX160H | NSX250H | NSX400N | NSX630N |
| 2000 | 2816 | 6 | 47 | 47 | NW32H1 Micrologic | 47 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 2500 | 3521 | 6 | 59 | 59 | NW40H1 Micrologic | 59 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 2 transfe | ormers | | | | | | | | | | |
| 50 | 70 | 4 | 2 | 2 | NSX100N TM-D/STR22SE | 4 | NSX100N | NSX160N | | | |
| 100 | 141 | 4 | 4 | 4 | NSX160N TM-D/STR22SE | 7 | NSX100N | NSX160N | NSX250N | | |
| 160 | 225 | 4 | 6 | 6 | NSX250N TM-D/STR22SE | 11 | NSX100N | NSX160N | NSX250N | NSX400N | |
| 250 | 352 | 4 | 9 | 9 | NSX400N STR23SE/53UE | 18 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 400 | 563 | 4 | 14 | 14 | NSX630N STR23SE/53UE | 28 | NSX100H | NSX160N | NSX250N | NSX400N | NSX630N |
| 630 | 887 | 4 | 22 | 22 | NS1000N NT10H1 NW10N1 Micrologic | 44 | NSX100H | NSX160H | NSX250H | NSX400N | NSX630N |
| 800 | 1127 | 6 | 19 | 19 | NS1250N NT12H1 NW12N1 Micrologic | 38 | NSX100H | NSX160H | NSX250H | NSX400N | NSX630N |
| 1000 | 1408 | 6 | 23 | 23 | NS1600N NT16H1 NW16N1 Micrologic | 47 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 1250 | 1760 | 6 | 29 | 29 | NW20N1 Micrologic | 59 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 1600 | 2253 | 6 | 38 | 38 | NW25H1 Micrologic | 75 | NSX100L | NSX160L | NSX250L | NSX400L | NSX630L |
| 2000 | 2816 | 6 | 47 | 47 | NW32H1 Micrologic | 94 | NSX100L | NSX160L | NSX250L | NSX400L | NSX630L |
| 2500 | 3521 | 6 | 59 | 59 | NW40H1 Micrologic | 117 | NSX100L | NSX160L | NSX250L | NSX400L | NSX630L |
| 3 transfe | ormers | | | | | | | | | | |
| 50 | 70 | 4 | 2 | 4 | NSX100N TM-D/STR22SE | 5 | NSX100N | NSX160N | NSX250N | | |
| 100 | 141 | 4 | 4 | 7 | NSX160N TM-D/STR22SE | 11 | NSX100N | NSX160N | NSX250N | NSX400N | |
| 160 | 225 | 4 | 6 | 11 | NSX250N TM-D/STR22SE | 17 | NSX100N | NSX160N | NSX250N | NSX400N | NSX630N |
| 250 | 352 | 4 | 9 | 18 | NSX400N STR23SE/53UE | 26 | NSX100H | NSX160N | NSX250N | NSX400N | NSX630N |
| 400 | 563 | 4 | 14 | 28 | NSX630N STR23SE/53UE | 42 | NSX100H | NSX160H | NSX250H | NSX400N | NSX630N |
| 630 | 887 | 4 | 22 | 44 | NS1000N NT10L1 NW10H1 Micrologic | 67 | NSX100H | | NSX250H | NSX400H | NSX630H |
| 800 | 1127 | 6 | 19 | 38 | NS1250N NT12H1 NW12N1 Micrologic | 56 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 1000 | 1408 | 6 | 23 | 47 | NS1600N NW16H1 Micrologic | 70 | NSX100H | NSX160H | NSX250H | NSX400H | NSX630H |
| 1250 | 1760 | 6 | 29 | 59 | NS2000N NW20N1 Micrologic | 88 | NSX100L | NSX160L | NSX250L | NSX400L | NSX630L |
| 1600 | 2253 | 6 | 38 | 75 | NS2500N NW25H2 Micrologic | 113 | NSX100L | NSX160L | NSX250L | NSX400L | NSX630L |
| | | 1. | 1 · · · | | | | | | | | |

Usc values as defined in HD 428.

Canalis KTA

Introduction

Coordination Protection of busbar trunking against overloads

System performance is guaranteed by coordination between the Schneider Electric circuit breaker protection and the distribution spread over the Canalis busbar trunking.

Fully coordinated distributed electrical distribution perfectly meets the requirements of safety, service continuity, system changes and simplicity.

In the following pages, we will explain the advantages of the Schneider Electric system and Schneider Electric circuit breaker protection, as well as the selection guide tables for coordination between the Schneider Electric circuit breakers and the Canalis busbar trunking.

The use of Schneider Electric circuit breakers provides:

protection against overloads and short-circuits;

■ coordination between the protective devices and the Canalis busbar trunking:

- □ full discrimination from 1 to 6300 A between all the circuit breakers of the Schneider Electric ranges
- □ cascading:

- reinforcement of the small and medium power busbar trunking short-circuit protective devices. This enables all short-circuit levels to be covered

- protection of tap-offs using standard circuit breakers: this is achieved whatever the position of the tap-off unit on the Canalis busbar trunking

■ the use of standard circuit breakers makes for simpler design whilst respecting a high level of dependability

■ fault location is quick and easy

■ resetting is easy once the fault has been cleared by the site operator.

In order to take into consideration thermal overload protection of busbar trunking, the different technologies of the protection switchgear and the maximum overload operating currents must be considered.

By design, the thermal adjustment of a circuit breaker is more accurate.

- lz = lb x k1 x k2
- □ lb : current rating
- □ Iz : allowable busbar trunking current
- □ k1 : temperature derating coefficient
- □ k2 : derating coefficient linked to the type of switchgear:
 - fuse k2 = 1.1
- circuit breaker k2 = 1.
- Iz = Ib x k1.
- In = I standardised fuse or circuit breaker.

Example:

- For a current rating Ib = 1900 A in an ambient temperature of 35°C:
- fuse protection:
 - lz = lb x k1 x k2 = 1900 x 1 x 1.1 = 2090 A
 - The correct choice of busbar trunking is the KTA25 (Iz = 2500 A)
- circuit breaker protection:
 - Iz = Ib x k1 x k2 = 1900 x 1 x 1 = 1900 A

The correct choice of busbar trunking is the KTA20 (Iz = 2000 A),

A difference of 20 % in the measurement of operating currents results in an overrating of the busbar trunking of 10 % if it is protected by fuses.

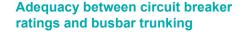
Explanations

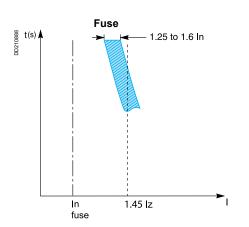
- Calibration of thermal asymptotes:
- □ the distribution fuse is calibrated to operate for overloads of between 1.25 and 1.6 times its nominal current (In fuse)

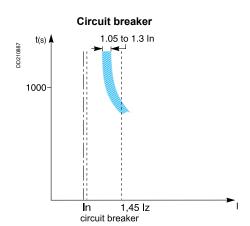
 \Box the circuit breaker is calibrated to operate for overloads of between 1.05 and 1.3 times (1.2 for circuit breakers with electronic protection) its setting current (Ir which is a function of circuit breaker In).

Maximum operating current:

□ the maximum limit for this current is set by installation standards (IEC 364, NFC 15-100, etc) at 1.45 times the allowable current of the busbar trunking.







Thermal setting accuracy

■ A fuse is for a fixed rating, a change in the current to be protected requires a change of fuse.

The spacing between 2 fuse ratings is around 25 %.

The typical ratings are conform to the numbers of the "Renard" series. Example: 40 - 50 - 63 - 80 - 100 - 125 - 160 - 200 - etc.

- The circuit breaker provides the possibility of fine adjustment:
- □ 5 % for circuit breakers fitted with standard thermal-magnetic trip units
- \square 3 % for circuit breakers fitted with electronic trip units.

A circuit breaker with a nominal rating of 100 A can be easily set to the following values:

Ir = 100 A, 95 A, 90 A, 85 A, 80 A.

Example:

A circuit breaker with a nominal rating of 1600 A set at 1440 A would be used to protect a KTA1600 (Inc = 1440 A) busbar trunking used in an ambient temperature of 50° C (k1 = 0.9).

akers fitted Circuit breakers fitted with electronic trip units have the following setting ranges: thermal protection Ir adjustable from 0.4 In to In

■ short-circuit protection adjustable from 2 Ir to 10 Ir

Example:

A 250 A circuit breaker (NS250N fitted with an STR22SE) can easily have the following settings:

- thermal protection from 100 to 250 A
- short-circuit protection from 200 to 2500 A.

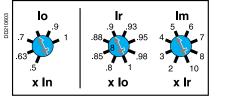
Avdantages

This provides great flexibility for:

modifications (flexibility), extensions (installation changes): the protective devices easily adapt to the load to be protected and to the earthing system (protection of personnel and equipment)

maintenance, the use of this type of device considerably reduces the stocks of maintenance components.





Example of setting possibilities.

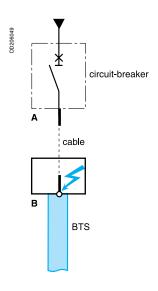
Coordination

Protection against short-circuits

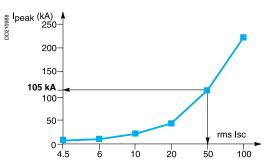
Canalis KTA

| Busbar trunking characteristics | The busbar trunking must meet all of the rules detailed in IEC 61439-1 and IEC 61439-6. The sizing of busbar trunking for short-circuits is determined by the following characteristics: I the allowable rated peak current lpk (kÂ). This characteristic represents the busbar trunking's instantaneous electrodynamic withstand limits. The peak current value is often the most restrictive instantaneous characteristic represents the allowable temperature rise limit of the conductors during a given time period (0.1 to 1s) I the thermal stress in A²s. This characteristic represents the instantaneous thermal stress withstand of the busbar trunking. In general, if the short-circuit generates fault conditions compatible with the first two characteristics, this constraint is "automatically satisfied". |
|---|--|
| Circuit breaker characteristics | The circuit breaker must satisfy the requirements of product construction standards (IEC 60947-2, etc) and installation standards (IEC 60364 or those in force in the country concerned), i.e. have a breaking capacity lcu ⁽¹⁾ greater than the prospective short-circuit current lsc at the point where it is installed. (1) Installation standard IEC 60364 and construction standards specify the breaking capacity of a circuit breaker as being: - the ultimate breaking capacity, lcu, if it is not coordinated with an upstream protective device, - the reinforced breaking capacity (cascading) if there is coordination with the upstream protective device. |
| Circuit breaker / busbar trunking system characteristics | When the busbar trunking is directly protected, the circuit breaker must be chosen as follows: Icu of the circuit breaker ≥ prospective lsc at point A I peak of the busbar trunking ≥ prospective asymmetrical or limited lsc at point A busbar trunking thermal withstand lcw ≥ thermal stress through the busbar trunking. |
| circuit-breaker Isc at point A | When the busbar trunking is protected downstream of a cable, the circuit breaker must be chosen as follows: Icu of the circuit breaker ≥ prospective lsc at point A I peak of the busbar trunking ≥ prospective asymmetrical or limited lsc at point B busbar trunking thermal withstand lcw ≥ thermal stress through the busbar trunking. |

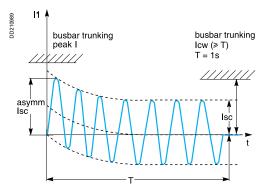
■ busbar trunking thermal withstand lcw ≥ thermal stress through the busbar trunking.



BTS



Current value of the 1st peak as a function of lsc rms.



Transient and established conditions of a short duration shortcircuit.

Circuit breaker/busbar trunking coordination

Non-limiting or time-delayed circuit

breaker

This is applicable for non-limiting circuit breakers (instantaneous or time-delayed) and time-delayed limiting circuit breakers. These are mainly air circuit breakers (≥ 800 A).

This type of circuit breaker is used for time discrimination and is therefore often associated with KT type busbar trunking.

It must be checked that the busbar trunking can handle the peak fault current to which it may be subjected and the thermal withstand during any time delay. The allowable peak current (I peak) of the busbar trunking must be greater than the peak current value of the prospective asymmetrical short-circuit current (Isc asym) at A.

The asymmetrical short-circuit current value is obtained by multiplying the symmetrical short-circuit current value (Isc) by a standardised asymmetrical coefficient (k).

It is the first value of the 1st transient asymmetrical peak of the short-circuit which is taken into account.

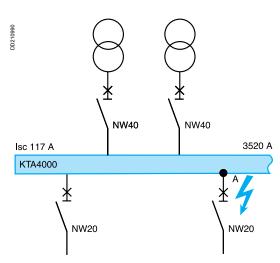
Standardised table for calculating asymmetrical short-circuit values

| Isc: prospective symmetrical short- circuit value | Asymmetrical coefficient |
|--|--------------------------|
| kA (rms value) | k |
| 4,5≤1≤6 | 1.5 |
| 6 < I ≤ 10 | 1.7 |
| 10 < I ≤ 20 | 2.0 |
| 20 < 1 ≤ 50 | 2.1 |
| 50 < I | 2.2 |

Example:

For a circuit with a prospective short-circuit current of 50 kA rms, the 1^{st} peak reaches 105 kÅ (50 kA x 2.1), see figure opposite.

The short-time withstand value (Icw) of the busbar trunking must be greater than the current flowing through the installation during the duration of the short-circuit (Isc) (duration T - total breaking time - including any time delay).



At point A, the prospective short-circuit current is 117 kArms. To meet this constraint, a reinforced KTA4000 is needed because: Icw KTA4000 > Isc prospective at point A.

The Icw or Ipk values of standard or reinforced KTA trunking allow the easy construction of circuits with time discrimination, even with high short-circuit values.

Canalis KTA

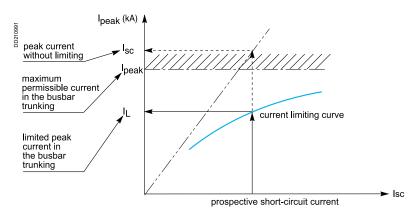
Circuit breaker/busbar trunking coordination Limiter circuit breaker

This is mainly applicable to the protection of busbar trunking using moulded case circuit breakers (\leq 1600 A).

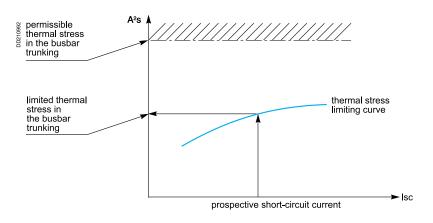
This type of circuit breaker is used for energy discrimination and is therefore often associated with Canalis KTA.

Here, it has to be checked that the busbar trunking can cope with the peak current (lpk) limited by the protective device and the corresponding thermal stress (A²s): ■ the peak current (l peak), once limited by the circuit breaker, must be less than the allowable peak current value of the busbar trunking

■ the thermal stress, once limited by the circuit breaker, must be less than the allowable thermal stress of the busbar trunking.

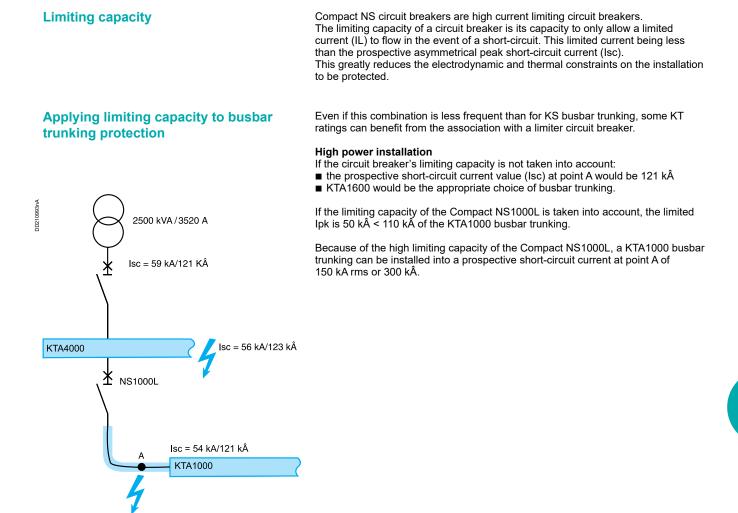


Checking peak I withstand of the busbar trunking.



Checking A²s withstand of the busbar trunking.

Protecting busbar trunking with a Compact NS circuit breaker



Selection guide

Canalis KTA

The selection guide below will, according to the prospective short-circuit current of the installation, allow you to determine the type of circuit breaker needed to fully protect the busbar trunking.

Example: for an installation with a prospective lsc of 150 kA, the circuit breaker needed to protect a KTA1250 A busbar trunking is a **NS100L** or **NT10L1** (the rating depends on the circuit's nominal current).

KTA0800 30 kA Type of Canalis busbar trunking 100 kA 150 kA Isc max kArms 50 kA 65 kA 85 kA NSX630N/H/S/L NSX630H/S/L NSX630S/L NSX630S/L Type of circuit Compact NSX NSX630L NSX630F (≥ 36 kA) breaker Compact NS NS630bN NS630bL NS630bLB **NS800N** NS800L NS800LB NS1000L NS1000N Masterpact MTZ1 MTZ1 06 H1/H2/H3/L1 MT71.061.1 MTZ1 08 H1/H2/H3/L1 MTZ1 08 L1 MTZ1 10 H1/H2/H3/L1 MTZ1 10 L1 Masterpact MTZ2 MTZ2 08 N1/H1/H2/L1 MTZ2 10 N1/H1/H2/L1 Masterpact NT NT06 H1 NT06 L1 NT08 H1 NT08 L1 NT10 H1 NT10 L1 Masterpact NW NW08H1 NW10H1 Type of Canalis busbar trunking KTA0800 Reinforced short-circuit level 30 kA 150 kA lsc max kArms 50 kA 65 kA 85 kA 100 kA NSX630N/H/S/L NSX630H/S/L Type of circuit Compact NSX NSX630F (≥ 36 kA) NSX630S/L NSX630S/L NSX630L breaker Compact NS NS630bN NS630bL NS630bLB NS800N NS800L NS800LB NS1000N NS1000L Masterpact MTZ1 MTZ1 06 H1/H2/H3/L1 MTZ1 06 L1 MTZ1 08 H1/H2/H3/L1 MTZ1 08 L1 MTZ1 10 H1/H2/H3/L1 MTZ1 10 L1 Masterpact MTZ2 MTZ2 08 N1/H1/H2/L1 MTZ2 10 N1/H1/H2/L1 Masterpact NT NT06 H1 NT0611 NT08 L1 NT08 H1 NT10 H1 NT10 L1 Masterpact NW NW08H1 NW10H1 **KTA1000** Type of Canalis busbar trunking 42 kA 65 kA 85 kA 100 kA 150 kA lsc max kArms 50 kA Type of circuit Compact NS NS800N NS800L NS1000N NS1000L breaker NS1250N Masterpact MTZ1 MTZ1 08 H1/H2/H3/L1 MTZ1 08 H2/H3/L1 MTZ1 08 L1 MTZ1 10 H1/H2/H3/L1 MTZ1 10 H2/H3/L1 MTZ1 10 L1 MTZ1 12 H1/H2/H3 MTZ1 12 H2/H3 Masterpact MTZ2 MTZ2 08 N1/H1/H2/L1 MTZ2 08 H1/H2/L1 MTZ2 10 N1/H1/H2/L1 MTZ2 10 H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 12 H1/H2/L1 NT08I 1 Masterpact NT NT08H1 NT08H2 NT10H1 NT10H2 NT10L1 NT12H1 NT12H2 Masterpact NW NW08N1 NW08H1 NW10N1 NW10H1 NW12N1 NW12H1 Type of Canalis busbar trunking **KTA1000 Reinforced short-circuit level** 42 kA 50 kA 65 kA 85 kA 100 kA 150 kA lsc max kArms Type of circuit Compact NS NS800N NS800H NS800L NS1000H NS1000L breaker NS1000N NS1250H Masterpact MTZ1 MTZ1 08 H1/H2/H3/L1 MTZ1 08 H2/H3/L1 MTZ1 08 H3/L1 MTZ1 08 L1 MTZ1 10 H1/H2/H3/L1 MTZ1 10 H2/H3/L1 MTZ1 10 H3/L1 MTZ1 10 L1 MTZ1 12 H1/H2/H3 MTZ1 12 H2/H3 MTZ1 12 H3 Masterpact MTZ2 MTZ2 08 N1/H1/H2/L1 MTZ2 08 H1/H2/L1 MTZ2 08 L1 MTZ2 10 N1/H1/H2/L1 MTZ2 10 H1/H2/L1 MTZ2 10 L1 MTZ2 12 H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 12 L1 NT08L1 Masterpact NT NT08H1 NT08H2 NT10H1 NT10H2 NT10L1 NT12H1 NT12H2 Masterpact NW NW08N1 NW08H1 NW08L1 NW10H1 NW10L1 NW10N1 NW12N1 NW12H1 NW12L1

For a voltage of 380/415 V

| Type of Cana | alis busbar trunking | KTA1250 | EO KA | CE LA | | 100 % | 450 1.4 |
|---------------------------------|------------------------------------|--|---|--|--|--|----------------------------|
| Type of circuit preaker | Isc max kArms Compact NS | 42 KA | 50 kA NS1000N NS1250N | 65 kA | 85 kA | 100 kA | 150 kA NS1000L |
| | Masterpact MTZ1 | MTZ1 10 H1/H2/H3/L1 MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3 | NS1600N MTZ1 10 H2/H3/L1 MTZ1 12 H2/H3 MTZ1 16 H2/H3 | MTZ1 10 L1 | 1 | 1 | |
| | Masterpact MTZ2 | MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 | MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 | | | | |
| | Masterpact NT | NT10H1 NT12H1 NT16H1 | NT10H2 NT12H2 NT16H2 | | | | NT10L1 |
| | Masterpact NW | NW10N1 NW12N1 NW16N1 | NW10H1 NW12H1 NW16H1 | | | | |
| Type of Cana | alis busbar trunking | KTA1250 Reinforced | | | | | |
| Type of circuit breaker | Isc max kArms Compact NS | 42 kA | 50 kA NS1000N NS1250N NS1600N | 65 kA NS1000H NS1250H NS1600H | 85 kA | 100 kA | 150 kA NS1000L |
| | Masterpact MTZ1 | MTZ1 10 H1/H2/H3/L1 MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3 | MTZ1 10 H2/H3/L1 MTZ1 12 H2/H3 MTZ1 16 H2/H3 | MTZ1 10 H3/L1 MTZ1 12 H3 MTZ1 16 H3 | MTZ1 10 L1 | | - 1 |
| | Masterpact MTZ2 | MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 | MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 | | MTZ2 10 L1 MTZ2 12 L1 MTZ2 16 L1 | | |
| | Masterpact NT | NT10H1 NT12H1 NT16H1 | NT10H2 NT12H2 NT16H2 | | | | NT10L1 |
| | Masterpact NW | NW10N1 NW12N1 NW16N1 | | NW10H1 NW12H1 NW16H1 | NW10L1 NW12L1 NW16L1 | | |
| Type of Canalis busbar trunking | | KTA1600 42 kA | 50 kA | 65 kA | 85 kA | 100 kA | 150 kA |
| Type of circuit oreaker | | 42 KA | NS1250N | NS1250H | 0 0 KA | 100 KA | 150 KA |
| | | | NS1600N | NS1600H NS1600bN NS2000N | | | |
| | Masterpact MTZ1 Masterpact MTZ2 | MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3 MTZ2 12 N1/H1/H2/L1 | MTZ1 12 H2/H3 MTZ1 16 H2/H3 MTZ2 12 H1/H2/L1 | MTZ1 12 H3 MTZ1 16 H3 | MTZ2 12 L1 | | |
| | | MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1 | MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/ | L1 | MTZ2 12 L1 MTZ2 16 L1 MTZ2 20 L1 | | |
| | Masterpact NT Masterpact NW | NT12H1 NT16H1 NW12N1 | NT12H2 NT16H2 | NW12H1 | | NW12L1 | |
| | · | NW16N1 NW20H1 | | NW16H1 NW20H1 | | NW12L1 NW16L1 NW20L1 | |
| Type of Cana | alis busbar trunking | KTA1600 PER Reinf | | | | 400 1-4 | 4501.4 |
| Type of circuit breaker | | 42 kA | 50 kA NS1250N | 65 kA NS1250H NS1600H NS1600bN NS2000N | 85 kA NS1600bH NS2000H | 100 kA | 150 kA |
| | Masterpact MTZ1 | MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3 | MTZ1 12 H2/H3 MTZ1 16 H2/H3 | MTZ1 12 H3 MTZ1 16 H3 | | | |
| | Masterpact MTZ2 | MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1 | | L1 | MTZ2 12 H2/L1 MTZ2 16 H2/L1 MTZ2 20 H2/H3/L1 | MTZ2 12 L1 MTZ2 16 L1 MTZ2 20 L1 | |
| | Masterpact NT Masterpact NW | NT12H1 NT16H1 NW12N1 | NT12H2 NT16H2 | NW12H1 | NW12H2 | | NW12L1 |
| | · | NW16N1 | | NW12H1 NW16H1 NW20H1 | NW12H2 NW16H2 NW20H2 | | NW12L1 NW16L1 NW20L1 |
| Type of Cana | alis busbar trunking | KTA2000 | 50 kA | GE KA | 95 kA | 100 - | 450 - 4 |
| Type of circuit breaker | Isc max kArms Compact NS | 42 KA | 50 kA | 65 kA NS1600bN NS2000N | 85 kA | 100 kA | 150 kA |
| | Masterpact MTZ1 | MTZ1 16 H1/H2/H3 | MTZ1 16 H2/H3 | MTZ1 16 H3 | | | |
| | Masterpact MTZ2 | MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1 MTZ2 25 H1/H2/H3 | | L1 | MTZ2 16 L1 MTZ2 20 L1 | | |
| | Masterpact NT Masterpact NW | NT16H1 NW16N1 | NT16H2 | NW16H1 | | NW 16 L1 | |
| | Masici paci INV | NW16N1 NW20H1 | | NW16H1 NW20H1 | | NW 16 L1 NW20L1 | |

Selection guide

Canalis KTA

| Type of Cana | alis busbar trunking | KTA2000 Reinforced | | | | 1 | |
|---|--|---|--|--|--------------------------------|--|---|
| | Isc max kArms | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA | 150 kA |
| Type of circuit preaker | Compact NS | | | NS1600bN NS2000N | NS1600bH NS2000H | | |
| andi | Masterpact MTZ1 | MTZ1 16 H1/H2/H3 | MTZ1 16 H2/H3 | MTZ1 16 H3 | 1020001 | | |
| | Masterpact MTZ2 | MTZ2 16 N1/H1/H2/L1 | MTZ2 16 H1/H2/L1 | | MTZ2 16 H2/L1 | | MTZ2 16 L1 |
| | Madioipadi Mi Zz | MTZ2 20 N1/H1/H2/H3/L1 | | /L1 | MTZ2 20 H2/H3/L | _1 | MTZ2 20 L1 |
| | | MTZ2 25 H1/H2/H3 | | | MTZ2 25 H2/H3 | | |
| | Masterpact NT | NT16H1 | NT16H2 | | | | |
| | Masterpact NW | NW16N1 | | NW16H1 | | NW16H2 | NW16L1 |
| | | NW20H1 | | NW20H1 | | NW20H2 | NW20L1 |
| | | NW25H1 | | NW25H1 | | NW25H2 | |
| Type of Cana | alis busbar trunking | KTA2500 | | | | | |
| | lsc max kArms | 42 kA | 50 kA | 65 kA | 80 kA | 100 kA | 150 kA |
| | Masterpact MTZ2 | MTZ2 20 H1/H2/H3/L1 | | | MTZ2 20 H2/H3/L1 | MTZ2 20 L1 | MTZ2 20 L1 |
| breaker | | MTZ2 25 H1/H2/H3 | | | MTZ2 25 H2/H3 | | |
| | Masterpact NW | MTZ2 32 H1/H2/H3 | | NW20H1 | MTZ2 32 H2/H3 NW20H2 | NW20L1 | NW20L1 |
| | Masterpact NVV | | | NW25H1 | NW20H2 NW25H2 | INVVZUL I | INVVZUL I |
| | | | | NW32H1 | NW32H2 | | |
| Type of Cana | alis busbar trunking | KTA2500 Reinforced | short-circuit lev | | 110032112 | | |
| . Jpc of Galla | lsc max kArms | 42 kA | 50 kA | 65 kA | 80 kA | 100 kA | 110 kA |
| Type of circuit | Masterpact MTZ2 | MTZ2 20 H1/H2/H3/L1 | | 50.01 | MTZ2 20 H2/H3/L | | MTZ2 20 H3/L1 |
| preaker | | MTZ2 25 H1/H2/H3 | | | MTZ2 25 H2/H3 | | MTZ2 25 H3 |
| | | MTZ2 32 H1/H2/H3 | | | MTZ2 32 H2/H3 | | MTZ2 32 H3 |
| | Masterpact NW | | | NW20H1 | | NW20H2 | NW20L1 (150 k/ |
| | | | | NW25H1 | | NW25H2 | NW25H3 |
| | | | | NW32H1 | | NW32H2 | NW32H3 |
| Type of Cana | alis busbar trunking | KTA3200 | | | | | |
| | lsc max kArms | | 50 kA | 65 kA | 85 kA | 100 kA | 110 kA |
| | Masterpact MTZ2 | MTZ2 25 H1/H2/H3 | | | MTZ2 25 H2/H3 | | |
| oreaker | | MTZ2 32 H1/H2/H3 | | | MTZ2 32 H2/H3 | | |
| | | MTZ2 40 H1/H2/H3 | | | MTZ2 40 H2/H3 | | |
| | Masterpact MTZ3 | MTZ3 40 H1/H2 | | | NIN 105110 | | |
| | Masterpact NW | | | NW25H1 NW32H1 | NW25H2 | | |
| | | | | NW40H1 | NW32H2 NW40H2 | | |
| | | | | 110040111 | NW40h2 NW40bH1 | | |
| Type of Cana | alis busbar trunking | KTA3200 Reinforced | l short-circuit lev | rel | | 1 | I |
| i)po or oun | lsc max kArms | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA | 110 kA |
| Type of circuit | Masterpact MTZ2 | MTZ2 25 H1/H2/H3 | | | MTZ2 25 H2/H3 | | MTZ2 25 H3 |
| oreaker | | MTZ2 32 H1/H2/H3 | | | MTZ2 32 H2/H3 | | MTZ2 32 H3 |
| | | MTZ2 40 H1/H2/H3 | | | MTZ2 40 H2/H3 | | MTZ2 40 H3 |
| | Masterpact MTZ3 | MTZ3 40 H1/H2 | - | | | | MTZ3 40 H2 |
| | Masterpact NW | | | NW25H1 | | NW25H2 | |
| | | | | NW32H1 | | NW32H2 | NW32H3 |
| | | | | NW40H1 | | NW40H2 | NW40H3 |
| T | | 1/74 4000 | | | | NW40bH1 | NW40bH2 |
| Type of Cana | alis busbar trunking | KTA4000 | | 0514 | | 40014 | |
| | Isc max kArms | 42 kA MTZ2 32 H1/H2/H3 | 50 kA | 65 kA | 90 kA MTZ2 32 H2/H3 | 100 kA | 110 kA |
| l ype of circuit breaker | Masterpact MTZ2 | MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 | | | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | | |
| breaker | Masterpact MTZ3 | MTZ3 40 H1/H2 | | | WI1Z2 40 HZ/H3 | | |
| | Musici paul MI 20 | MTZ3 40 H1/H2 MTZ3 50 H1/H2 | | | | | |
| | Masterpact NW | | | NW32H1 | NW32H2 | | |
| | | | | NW40H1 | NW40H2 | | |
| | | | | NW40bH1 | NW40bH1 | | |
| | | | | NW50H1 | NW50H1 | | |
| | | | | | • | | |
| Type of Cana | alis busbar trunking | KTA4000 Reinforced | short-circuit lev | /el | | | |
| Type of Cana | alis busbar trunking Isc max kArms | KTA4000 Reinforced 42 kA | short-circuit lev 50 kA | el 65 kA | 90 kA | 100 kA | 120 kA |
| •• | | | | | 90 kA MTZ2 32 H2/H3 | 100 kA | 120 kA MTZ2 32 H3 |
| Fype of circuit | lsc max kArms | 42 kA | | | | 100 kA | |
| Fype of circuit | lsc max kArms | 42 kA MTZ2 32 H1/H2/H3 | | | MTZ2 32 H2/H3 | 100 kA | MTZ2 32 H3 |
| Fype of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 | 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 | | 65 kA | MTZ2 32 H2/H3 | | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 |
| Fype of circuit | Isc max kArms Masterpact MTZ2 | 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 | | 65 kA | MTZ2 32 H2/H3 | NW32H2 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 |
| Type of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 | 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 | | 65 kA NW32H1 NW40H1 | MTZ2 32 H2/H3 | NW32H2 NW40H2 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 |
| Type of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 | 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 | | 65 kA NW32H1 NW40H1 NW40bH1 | MTZ2 32 H2/H3 | NW32H2 NW40H2 NW40bH1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 |
| Type of circuit preaker | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW | 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 | 50 kA | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 | MTZ2 32 H2/H3 | NW32H2 NW40H2 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 |
| Fype of circuit breaker | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 NW50H1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 |
| Type of circuit oreaker Type of Cana | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Alis busbar trunking Isc max kArms | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor 50 kA | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level 65 kA | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 120 kA |
| Type of circuit breaker Type of Cana Type of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3 | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level 65 kA | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 NW50H1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 120 kA MTZ2 32 H3 |
| Type of circuit breaker Type of Cana Type of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Alis busbar trunking Isc max kArms Masterpact MTZ2 | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level 65 kA | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 NW50H1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 120 kA MTZ2 32 H3 MTZ2 40 H3 |
| Type of circuit breaker Type of Cana | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Alis busbar trunking Isc max kArms | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level 65 kA | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 NW50H1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 |
| Type of circuit breaker Type of Cana Type of circuit | Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Alis busbar trunking Isc max kArms Masterpact MTZ2 | 42 kA MTZ2 32 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA5000 / KTA 5000 | 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 | 65 kA NW32H1 NW40H1 NW40bH1 NW50H1 t-circuit level 65 kA | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | NW32H2 NW40H2 NW40bH1 NW50H1 | MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40bH2 NW50H2 120 kA MTZ2 32 H3 MTZ2 40 H3 |

(1) L1 up to 150 kA.

| Type of Cana | alis busbar trunking | | | | | | | |
|----------------------------|----------------------|---|-------------------------------------|-------------------------------------|--|--|--|--------|
| | Isc max kArms | | 30 kA | 42 kA | 50 kA | 65 kA | 75 kA | 100 kA |
| Type of circuit breaker | Compact NS | | NS800N NS1000N NS1250N | NS800H NS1000H NS1250H | | | NS800LB | |
| | Masterpact MTZ1 | MTZ1 08 H1/H2/L1 MTZ1 10 H1/H2/L1 MTZ1 12 H1/H2 | MTZ1 08 H1/H | 12 | _ | | | |
| | Masterpact MTZ2 | MTZ2 08 N1/H1/H MTZ2 10 N1/H1/H MTZ2 12 N1/H1/H | 12/L1 | | MTZ2 08 H1/H2/L1 MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 | | | |
| | Masterpact NT | | | NT08H1/H2 NT10H1/H2 NT12H1/H2 | | | | |
| | Masterpact NW | | | NW08N1 NW10N1 NW12N1 | NW08H1 NW10H1 NW12H1 | | | |
| Type of Cana | alis busbar trunking | KTA1000 Reinf | forced short- | circuit level | | | | |
| | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 75 kA | 100 kA |
| | | | NS800N NS1000N NS1250N | NS800H NS1000H NS1250H | | | NS800LB | |
| | Masterpact MTZ1 | MTZ1 08 H1/H2/L1 MTZ1 10H1/H2/L1 MTZ1 12 H1/H2 | MTZ1 08 H1/H MTZ1 10H1/H2 | | _ | | | |
| | Masterpact MTZ2 | MTZ2 8 N1/H1/H2 MTZ2 10 N1/H1/H MTZ2 12 N1/H1/H | 12/L1 | | MTZ2 8 H1/H2/L1 MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 | MTZ2 8 H/L1 MTZ2 10 L1 MTZ2 12 L1 | | |
| | Masterpact NT | | | NT08H1/H2 NT10H1/H2 NT12H1/H2 | | | | |
| | Masterpact NW | | | NW08N1 NW10N1 NW12N1 | | NW08H1 NW10H1 NW12H1 | | |
| Type of Cana | alis busbar trunking | KTA1250 | | | | | | |
| | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 75 kA | 100 kA |
| Type of circuit breaker | Compact NS | | NS1000N NS1250N NS1600N | NS1000H NS1250H NS1600H | | | | |
| | | | | 10 | NS1600bN | | | |
| | Masterpact MTZ1 | MTZ1 08 H1/H2/L1 MTZ1 12 H1/H2 MTZ1 16 H1/H2 | MIZ1 08 H1/F | 12 | _ | | | |
| | Masterpact MTZ2 | MTZ2 10 N1/H1/F MTZ2 12 N1/H1/F MTZ2 16 N1/H1/F | 12/L1 | | MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 | | | |
| | Masterpact NT | | | NT10H1/H2 NT12H1/H2 NT16H1/H2 | | | | |
| | Masterpact NW | | | NW10N1 NW12N1 NW16N1 | NW10H1 NW12H1 NW16H1 | | | |
| Type of Cana | alis busbar trunking | KTA1250 Reinf | forced short- | circuit level | | | | |
| | lsc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 75 kA | 100 kA |
| Type of circuit breaker | Compact NS | | NS1000N NS1250N NS1600N | NS1000H NS1250H NS1600H | | | | |
| | | | | | NS1600bN | NS1600bN | | |
| | Masterpact MTZ1 | MTZ1 08 H1/H2/L1 MTZ1 12 H1/H2 MTZ1 16 H1/H2 | MTZ1 08 H1/H | 12 | - | | | |
| | Masterpact MTZ2 | MTZ2 10 N1/H1/F MTZ2 12 N1/H1/F MTZ2 16 N1/H1/F | 12/L1 | | MTZ2 10 H1/H2/L MTZ2 12 H1/H2/L MTZ2 16 H1/H2/L | 1 | MTZ2 10 L1 MTZ2 12 L1 MTZ2 16 L1 | |
| | Masterpact NT | | | NT10H1/H2 NT12H1/H2 NT16H1/H2 | | | | |
| | Masterpact NW | | | NW10N1 | NW10H1 | NW10H1 | NW10L1 | |

Canalis KTA

| Type of Cana | alis busbar trunking | | | | | | | |
|----------------------------|---------------------------------------|------------------------------------|--------------------|------------------------|------------------------------------|------------------|-----------------------------------|---------------|
| Trans of star 12 | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit breaker | Compact NS | | NS1250N NS1600N | NS1250H NS1600H | | | | |
| DIEGNEI | | | NUUUN | | - | NS1600bN | - | |
| | | | | | | NS2000N | | |
| | Masterpact MTZ1 | MTZ1 12 H1/H2 | • | • | | | | |
| | | MTZ1 16 H1/H2 | 10/1.4 | | | 1 | | |
| | Masterpact MTZ2 | MTZ2 12 N1/H1/H MTZ2 16 N1/H1/H | | | MTZ2 12 H1/H2/L MTZ2 16 H1/H2/L | | MTZ2 12 L1 MTZ2 16 L1 | |
| | | MTZ2 20 N1/H1/I | | | MTZ2 20 H1/H2/H | | MTZ2 20 L1 | |
| | Masterpact NT | | | NT12H1/H2 | | | | |
| | Masterpact NW | | | NT16H1/H2 NW12N1 | | NW12H1 | NW12L1 (≤ 75 kA) | |
| | Masterpact NW | | | NW16N1 | | NW12H1 | NW12L1 (≤ 75 kA) | |
| | | | | | | NW20H1 | NW20 L1 (≤ 75 kA) | |
| Type of Cana | alis busbar trunking | KTA1600 Rein | | | | | | |
| Type of circuit | Isc max kArms | 25 kA | 30 kA NS1250N | 42 kA NS1250H | 50 kA | 65 kA | 85 kA | 100 kA |
| breaker | Compact NS | | NS1600N | NS1600H | | | | |
| | | | | | - | NS1600bN | - | |
| | | | | | | NS2000N | | |
| | Masterpact MTZ1 | MTZ1 12 H1/H2 | | | | | | |
| | Masterpact MTZ2 | MTZ1 16 H1/H2 MTZ2 12 N1/H1/I | H2/L1 | | MTZ2 12 H1/H2/L | 1 | MTZ2 12 H2/L1 | MTZ2 12 L1 |
| | | MTZ2 16 N1/H1/H2/L1 | | | MTZ2 16 H1/H2/L | 1 | MTZ2 16 H2/L1 | MTZ2 16 L1 |
| | | MTZ2 20 N1/H1/H | H2/H3/L1 | | MTZ2 20 H1/H2/H | I3/L1 | MTZ2 20 H2/H3/L1 | MTZ2 20 L1 |
| | Masterpact NT | | | NT12H1/H2 NT16H1/H2 | | | | |
| | Masterpact NW | | - | NW12N1 | - | NW12H1 | NW12H2 (≤ 75 kA) | NW12L1 |
| | Madorpader | | | NW16N1 | | NW16H1 | NW16H2 (≤ 75 kA) | NW16L1 |
| | | | | | | NW20H1 | NW20H2 (≤ 75 kA) | NW20L1 |
| Type of Cana | alis busbar trunking Isc max kArms | KTA2000 | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit | | 20 KA | NS1600N | 42 KA NS1600H | JU KA | 03 KA | 00 KA | 100 KA |
| breaker | oompaarno | | | | _ | NS1600bN | - | |
| | | | | | | NS2000N | | |
| | Masterpact MTZ1 | MTZ1 16 H1/H2 | | | _ | NS2500N | _ | |
| | Masterpact MTZ2 | MTZ2 16 N1/H2 | H2/L1 | | MTZ2 16 H1/H2/L | 1 | MTZ2 16 L1 | |
| | · | MTZ2 20 N1/H1/H2/H3/L1 | | MTZ2 20 H1/H2/H3/L1 | | MTZ2 20 L1 | | |
| | | MTZ2 25 H1/H2/H | -13 | | | | | |
| | Masterpact NT Masterpact NW | | | NT16H1/H2 NW16N1 | | NW16H1 | _ | NW16L1 |
| | Masterpact | | | | | NW20H1 | | NW20L1 |
| | | | | | | NW25H1 | | |
| T | | | 6 l l | | | | | |
| Type of Cana | alis busbar trunking Isc max kArms | KTA2000 Rein | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit | | 20101 | NS1600N | NS1600H | 00101 | 00101 | | 100101 |
| breaker | | | | | | NS1600bN | | |
| | | | | | | NS2000N | | |
| | Masterpact MTZ1 | MTZ1 16 H1/H2 | | | _ | NS2500N | - | |
| | Masterpact MTZ2 | MTZ2 16 N1/H1/I | H2/L1 | | MTZ2 16 H1/H2/L | 1 | MTZ2 16 L1 | MTZ2 16 L1 |
| | | MTZ2 20 N1/H1/ | | | MTZ2 20 H1/H2/H | I3/L1 | MTZ2 20 H2/H3/L1 | MTZ2 20 H3/L1 |
| | | MTZ2 25 H1/H2/H | -13 | | | | MTZ2 25 H2/H3 | MTZ2 25 H3 |
| | Masterpact NT Masterpact NW | | | NT16H1/H2 NW16N1 | | NW16H1 | NW16H2 (≤ 75 kA) | NW16L1 |
| | Masterpaot | | | | | NW20H1 | | NW20H3 |
| | | | | | | NW25H1 | NW25H2 (≤ 75 kA) | NW25H3 |
| Type of Cana | alis busbar trunking | KTA2500 | 20 44 | 42 14 | 50 kA | CELA | 00 k A | 100 / 4 |
| Type of circuit | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA NS2000N | 80 kA | 100 kA |
| breaker | Compactivo | | | | | NS2500N | | |
| | | | | | | NS3200N | | |
| | Masterpact MTZ1 | MTZ1 16 H1/H2 | 10// 10// 1 | | NT70 00 111 8 10 10 | | | MTTO COLL |
| | Masterpact MTZ2 | MTZ2 20 N1/H1/H MTZ2 25 H1/H2/H | | | MTZ2 20 H1/H2/H | 13/L1 | MTZ2 20 H2/H3/L1 MTZ2 25 H2/H3 | MTZ2 20 L1 |
| | | MTZ2 32 H1/H2/ | | | | | MTZ2 32 H2/H3 | |
| | Masterpact NT | | | NT16H1/H2 | | | | |
| | Masterpact NW | | | | | NW20H1 | NW20H2 | NW20L1 |
| | | | | | | NW25H1 NW32H1 | NW25H2 NW32H2 | |

| Type of Cana | alis busbar trunking | KTA2500 Reinf | orced short-c | ircuit level | | | | |
|----------------------------|----------------------------------|---|---------------|--------------|---------------------|---|---|---|
| | lsc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit breaker | Compact NS | | | | | NS2000N NS2500N NS3200N | | |
| | Masterpact MTZ1 | MTZ1 16 H1/H2 | | | | N33200N | | |
| | Masterpact MTZ2 | | | | MTZ2 20 H1/H2/H3/L1 | | MTZ2 20 H2/H3/L1 | MTZ2 20 H3/L1 |
| | · | | | | | | MTZ2 25 H2/H3 MTZ2 32 H2/H3 | MTZ2 25 H3 MTZ2 32 H3 |
| | Masterpact NT | | | NT16H1/H2 | | | | |
| | Masterpact NW | | | | | NW20H1 NW25H1 NW32H1 | NW20H2 (≤ 80 kA) NW25H2 (≤ 80 kA) NW32H2 (≤ 80 kA) | NW20H3 NW25H3 NW32H3 |
| Type of Cana | alis busbar trunking | KTA3200 | | 1 | Laws a | | | |
| Tune of sizewit | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit breaker | Compact NS | | | | | NS2500N NS3200N | | |
| breaker | Masterpact MTZ2 | MTZ2 32 H1/H2/H MTZ2 40 H1/H2/H | | | 1 | N33200N | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | |
| | Masterpact MTZ3 | MTZ3 40 H1/H2 | | | | | 11122 10112,110 | |
| | Masterpact NW | | | | | NW25H1 | NW25H2 | |
| | | | | | | NW32H1 NW40H1 | NW32H2 NW40H2 NW40b H1/H2 | |
| Type of Cana | alis busbar trunking | KTA3200 Reinf | orced short-c | ircuit level | | | | |
| | lsc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit breaker | · . | | | | | NS2500N NS3200N | | |
| | Masterpact MTZ2 | MTZ2 40 H1/H2/H3 MTZ2 40 H2 | | | | MTZ2 32 H2/H3 MTZ2 40 H2/H3 | MTZ2 32 H3 MTZ2 40 H3 | |
| | Masterpact MTZ3 Masterpact NW | MTZ3 40 H1/H2 | | 1 | 1 | NW25H1 | NW25H2 | NW25H3 |
| | | | | | | NW23H1 NW32H1 NW40H1 | NW23H2 NW32H2 NW40H2 | NW23H3 NW32H3 NW40H3 NW40bH1/2 |
| Type of Cana | alis busbar trunking | KTA4000 | | 1 | Law end | | | |
| | Isc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit breaker | Masterpact MTZ2 | MT72 32 L1/L2/L | 3 | | | NS3200N | MT72 32 U2/U3 | |
| breaker | | MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ2 40 H2/H3 | | | | | | |
| | Masterpact MTZ3 | MTZ3 40 H1/H2 MTZ3 50 H1/H2 | | | | | | |
| | Masterpact NW | | | | | NW32H1 | NW32H2 | |
| | | | | | | NW40H1 | NW40H2 NW40bH1/H2 NW50 H1/H2 | |
| Type of Cana | alis busbar trunking | KTA4000 Reinf | | | | | | |
| | lsc max kArms | 25 kA | 30 kA | 42 kA | 50 kA | 65 kA | 85 kA | 100 kA |
| Type of circuit | | | | | | NS3200N | | |
| breaker | Masterpact MTZ2 | MTZ2 40 H1/H2/H3 MTZ2 40 H2/H3 | | | | | | |
| | Masterpact MTZ3 | MTZ3 40 H1/H2 MTZ3 50 H1/H2 MTZ3 63 H1/H2 | | | | | | |
| | Masterpact NW | | | | | NW32H1 NW40H1 | NW32H2 NW40H2 | NW32H3 NW40H3 NW40bH1/H2 NW50H1/H2 |
| Type of Cana | alis busbar trunking | KTA5000 | | | 1 | | | |
| | Isc max kArms Masterpact MTZ2 | 25 kA | 30 kA | 42 kA | 50 kA | | 85 kA MTZ2 32 H2/H3 | 100 kA MTZ2 32 H3 MTZ2 40 H3 |
| breaker | Masterpact MTZ3 | | | | | MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 MTZ3 63 H1/H2 | 2 | IVI 1 ZZ 40 TI3 |

Degree of protection

Canalis KTA

Degree of protection IP

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.

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 62-262 defines a coding system (IK code) indicating the degree of protection provided by electrical equipment enclosures against external mechanical impact.

Installation standard IEC 60-364 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.

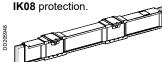
IK codeee

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.

Meaning of the numerals and letters representing the degree of protection IP.

The Canalis KTA busbar trunking products are designed to provide **IP55D and**



1st 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. | 0 | | |
| 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). | 1 | DD210014 | Ø 50 mm |
| Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm. | Protected against direct finger contact. | 2 | DD210015 | Ø12,5 mm |
| 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. | 3 | DD210016 | Ø2,5 mm |
| Protected against the penetration of solid objects having a diameter greater than 1 mm. | Protected against direct contact with a 1 mm diameter wire. | 4 | DD210017 | Ø1 mm |
| Dust protected (no harmful deposits). | Protected against direct contact with a 1 mm diameter wire. | 5 | DD210018 | \bigcirc |
| Dust tight. | Protected against direct contact with a 1 mm diameter wire. | 6 | DD210019 | |

 2^{nd} characteristic numeral: corresponds to protection of equipment against penetration of water with harmful effects.

Protection of equipment Non-protected. 0 Protected against vertical 1 dripping water (condensation). 50 Protected against dripping 2 water at an angle of up to 15°. Protected against rain at an 3 angle of up to 60°. Protected against splashing 4 water in all directions. Protected against water jets in 5 all directions. Test duration: 1 mn/m² casing Protected against powerful jets 6 of water and waves. Protected against the effects of 7 temporary immersion. Protected against the effects of 8 prolonged immersion under

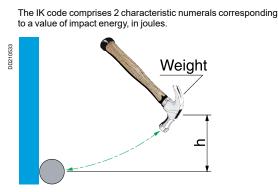
Additional letter

Corresponds to protection of persons against direct contact with live parts.

| A | With the back of the hand. |
|---|-----------------------------|
| В | With the finger. |
| С | With a 2.5 mm diameter tool |
| D | With a 1 mm diameter tool |

specified conditions.

Degrees of protection IK against mechanical impact



| 9 | | Weight (kg) | Height (cm) | Energy (J) | | |
|---|----|----------------|----------------|---------------|--|--|
| | 00 | Non-protected | | | | |
| | 01 | 0.20 | 7.50 | 0.15 | | |
| | 02 | | 10 | 0.20 | | |
| | 03 | | 17.50 | 0.35 | | |
| | 04 | | 25 | 0.50 | | |
| | 05 | | 35 | 0.70 | | |
| | 06 | 0.50 | 20 | 1 | | |
| | 07 | | 40 | 2 | | |
| | 08 | 1.70 | 30 | 5 | | |
| | 09 | 5 | 20 | 10 | | |
| | 10 | | 40 | 20 | | |

Harmonic currents

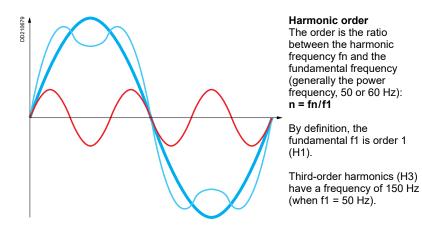
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Origin of harmonic currents

Harmonic currents are caused by non-linear loads connected to distribution systems, i.e. by loads that draw current with a waveform different that 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.



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 x i3/i1
- i3 = rms current of H3
- i1 = rms current of the fundamental

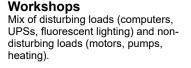
Assuming that H3 is preponderant among harmonics, the THD is close to the value of H3 (ih3(%)).

- There are two decisive factors:
- the types of connected devices:

□ disturbing loads: fluorescent lighting, computer hardware, rectifiers, arc furnaces, etc.

- $\hfill\square$ non-disturbing loads: heating, motors, pumps, etc.
- the ratio between the two types of disturbing loads.



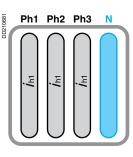


Low probability of harmonics THD ≤ 15 %.



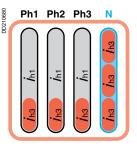
Offices Numerous disturbing loads (computers, UPSs, fluorescent lighting).

High probability of harmonics 15 % < THD ≤ 33 %. Effects of harmonics on Canalis busbar trunking



Fundamental frequency: ih1 (50 Hz)

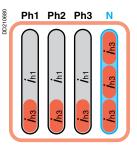
No current in the neutral. The conductors are correctly sized.

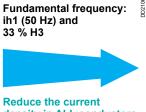


Fundamental frequency: ih1 (50 Hz) and 33 % of H3

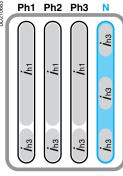
Abnormal temperature rise in the conductors caused by current at a higher frequency in the phases (skin effect) and current in the neutral caused by summing of the H3 harmonics.

The only effective solution





density in ALL conductors by using appropriately sized trunking.



Busbar-trunking selection

| THD ≤ 15 % | 15 % < THD ≤ 33 % | THD > 33 % | Busbar trunking | Rating (A) |
|------------|-------------------|------------|-----------------|------------|
| 800 | 630 | 500 | KTA | 800 |
| 1000 | 800 | 630 | KTA | 1000 |
| 1250 | 1000 | 800 | KTA | 1250 |
| 1600 | 1250 | 1000 | KTA | 1600 |
| 2000 | 1600 | 1250 | KTA | 2000 |
| 2500 | 2000 | 1600 | KTA | 2500 |
| 3200 | 2500 | 2000 | KTA | 3200 |
| 4000 | 3200 | 2500 | KTA | 4000 |

Example. For a total rms current of 2356 A (estimation based on power drawn by loads, including harmonics), the operational current is 2500 A. THD is estimated at 30 %. The appropriate trunking is KTA 3200 A.

For more information on harmonics

See the Cahier Technique publications on the Schneider Electric web site: www.se.com

Direct current

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Determining the DC current value

Thermal effect Rule

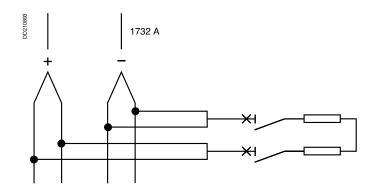
The total power dissipated as heat must remain constant in the duct: Pac = Pdc

Where:

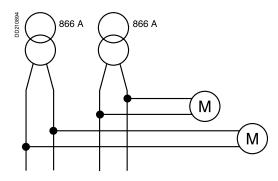
- the power dissipated as heat: **Pac** = 3 x R x lac² where:
- □ R= resistance of a conductor
- □ lac = conductor rms current
- the dissipated power for 4 conductors: **Pdc** = 4 x R x ldc² where:
- \Box Idc = direct current.

Selection table

1 source Case of 2 conductors in parallel for the + and 2 conductor 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):



| Busbar trunking rating (A) | 1 source | 2 sources |
|----------------------------|----------|-----------|
| 800 | 1386 | 693 |
| 1000 | 1732 | 866 |
| 1250 | 2165 | 1083 |
| 1600 | 2771 | 1385 |
| 2000 | 3464 | 1732 |
| 2500 | 4330 | 2165 |
| 3200 | 5542 | 2771 |
| 4000 | 6928 | 3464 |
| 5000 | 8660 | 4330 |

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: Unetwork = R x lsc + Uarc where:

■ Isc = (Unetwork - Uarc) / R

Isc = 0 when Uarc = Unetwork.

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.

Saline environment

For use in a saline environment, storage and installation precautions must be followed.

Please contact your sales office.

Frequencies 400 Hz

Canalis KTA

KT busbar trunking derating at 400Hz

Values at 35 °C. Application of a derating coefficient at 400 Hz combined with that for temperature derating.

| Busbar trunking derating | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | KTA08 | KTA10 | KTA12 | KTA16 | KTA20 | KTA25 | KTA32 | KTA40 |
| In (A) | 688 | 851 | 1014 | 1327 | 1635 | 2024 | 2394 | 3162 |
| Coefficient K at 400 Hz | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 |

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.

| ΔU evenly spread (mV. A. m) | | | | | | | | |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | KTA08 | KTA10 | KTA12 | KTA16 | KTA20 | KTA25 | KTA32 | KTA40 |
| Cos Φ = 1.0 | 0.079 | 0.068 | 0.057 | 0.044 | 0.038 | 0.033 | 0.025 | 0.020 |
| Cos Φ = 0.9 | 0.12 | 0.109 | 0.096 | 0.079 | 0.067 | 0.054 | 0.045 | 0.039 |
| Cos Φ = 0.8 | 0.13 | 0.121 | 0.108 | 0.089 | 0.076 | 0.060 | 0.051 | 0.045 |

Conductor characteristics

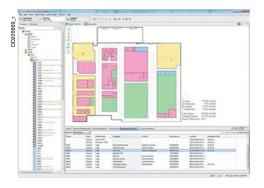
| Conductor impedance | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | KTA08 | KTA10 | KTA12 | KTA16 | KTA20 | KTA25 | KTA32 | KTA40 |
| Average ohmic resistance of phase and neutral conductors at $ln^{(1)}$ Rb1ph (m Ω /m) | 0.092 | 0.079 | 0.066 | 0.051 | 0.044 | 0.039 | 0.029 | 0.023 |
| Average resistance at In and rated F(Hz) (1) Xph (m Ω /m) | 0.14 | 0.128 | 0.120 | 0.104 | 0.088 | 0.064 | 0.059 | 0.056 |

(1) In line with the CENELEC RO.64.013 document.

Measurements and metering

Canalis part of StruxureWare

The StruxureWare platform

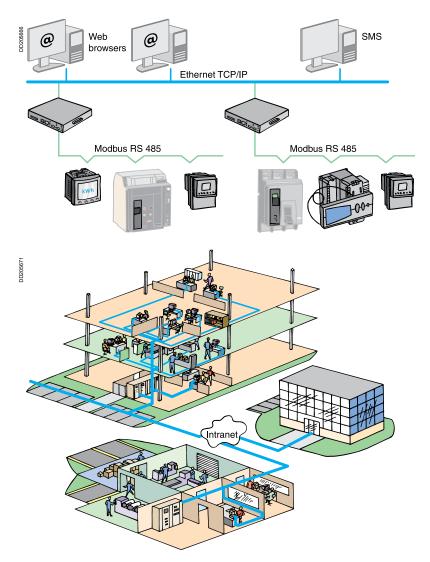


Canalis associated to Schneider Electric measurement and communication devices provides a simple solution to access information (status, measurements, etc.) available from your electrical distribution equipment (transformers, switchboards, busbar trunking).

This information can be accessed from any PC connected to your Ethernet network.

The supervision can make your company more competitive by:

- reducing operating costs
- optimising equipment performance
- improving the reliability of the electrical power supply.



Customer needs for measurements and metering

In all non-residential buildings, the need for sub-metering exists and is growing underthe combined effects of:

- national and supra-national energy regulations
- the need to reduce overheads and production costs
- the allocation of energy expenditures to cost centres
- the outsourcing of operations tasks to specialists.

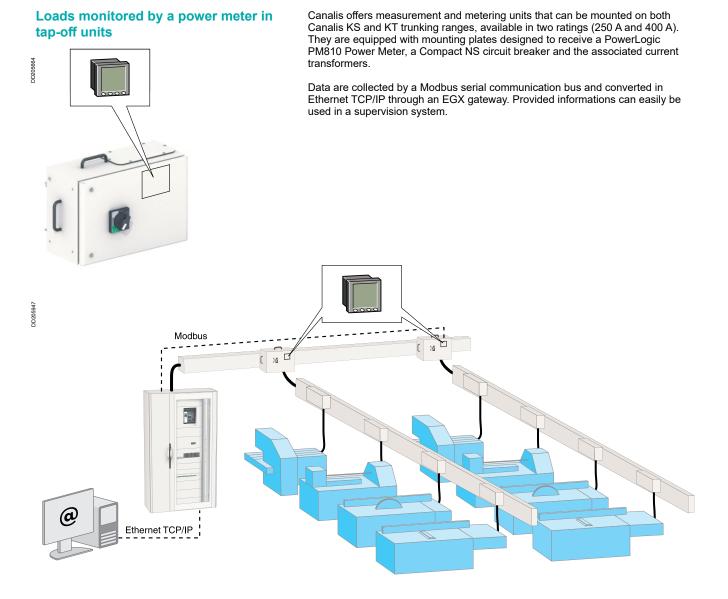
Operators must therefore have access to reliable pre-processed information in order to:

- identify areas for potential savings
- model building energy flows and anticipate evolving needs
- optimise energy supply and consumption.

Measurements and metering

Canalis part of StruxureWare

Canalis KTA



Data acquisition in distributed architectures

When busbar trunking is located upstream of a secondary trunking line, the measurement devices should be installed in the tap-off units.



Life Is On Schneider 185

Fire resistance

Canalis KTA

Definition of tests

- As required by standards, Canalis KT 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 1h30 in an insulating sheath.

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 § 8.1.3 IEC 61439-1 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 § 10.101 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.

Life Is On Schneider 186

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

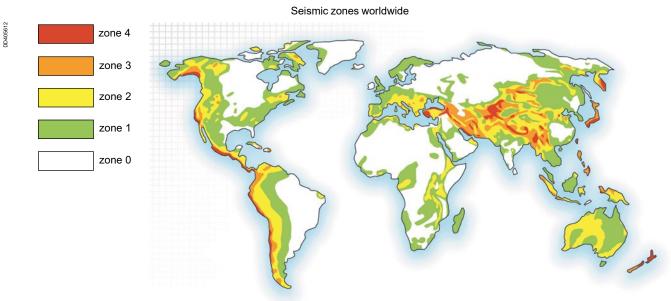
Its entire length inserted, the busbar trunking is taken as a specimen in an insulating sheath.

Result criteria

- The specimen is considered to have passed the test if:
- conductor continuity is preserved
- there is no short-circuit between conductors.

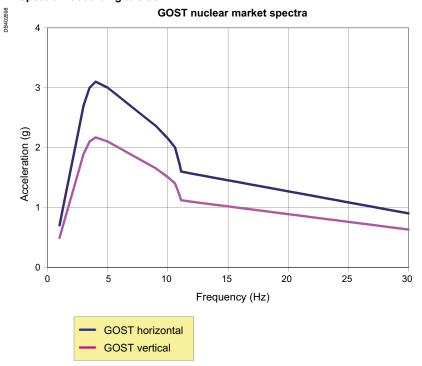
Seismic resistance

Canalis KTA



Canalis KT is seismic certified in accordance with the protocol described in IEC 60980 and a seismic level equivalent to >7 on the Richter scale and severity 9 on the international MSK-64 scale.

The spectrum used for testing is the one specified for civil engineering and nuclear applications in GOST 17516.1-90.



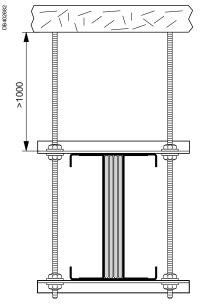
Spectrum according to GOST

Installation and support

Supports for conventional applications can be used for seismic applications by following the recommendations below:

For flexible support

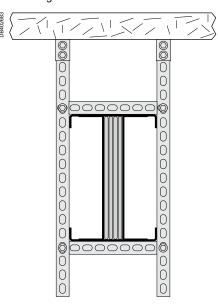
Use supports and rods, with a minimum length of 1000 mm and additional clamping as per the following diagram.



Safety limit: 250 mm round the busbar trunking (amplitude noted during testing).

For rigid support

Use of conventional mechanically welded consoles with rigid busbar trunking fastening.



For both cases:

its conventional fixing centre distances are maintained (3 m edgewise, 2 m flat)
 the levels achieved are applicable for horizontal, edgewise or flat or vertical installations.

Testing and commissioning procedure

Canalis KTA

All the operations described below are given for indication only. Under no circumstances can they be used to substitute the installation company's own procedures and engage Schneider Electric's responsibility.

Scope

High power busbar trunking, transformer-switchboard links.

Required tools

- Multimeter.
- 500 V megger.
- Roto-phase.

Prerequisites

- If need be, the old equipment has been removed from the premises.
- The new equipment has been manoeuvred into the premises where it is to be installed by the installation contractor.
- The equipment has been installed by the installation contractor in accordance with manufacturer's recommendations.

The equipment's installation diagram, connection diagram and assembly results sheet are available for the commissioning engineer.

De-energising the installation and making it safe

The works manager is responsible for worksite safety and must ensure the installation is de-energised and made safe in accordance with safety rules before any inspection or measurement is performed.

Equipment checking, positioning and identification

After the installation contractor has positioned, assembled and connected the busbar trunking in accordance with the supplied installation, assembly and connection diagrams, and using the recommended tools and handling equipment, the following characteristics must:

■ be noted,

■ be checked for compliance with respect to the details shown on the drawing.

| Brand | - | Busbar trunking rating: | - |
|--------------------|---|--|---|
| Equipment type: | - | Serial number: | - |
| Reference: | - | Date of manufacture: | - |
| Transformer power: | - | Source circuit breaker (busbar trunking protection): | _ |

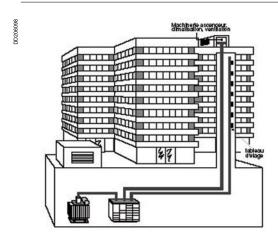
General visual inspection

The equipment has been chosen according to its electrical environment (rating and protection adapted to operating conditions). The following points do not require checking.

Points concerning reception, storage and handling

No signs of:

- shock (which may deteriorate internal insulation: conductor insulation on straight lengths or at the tap-off points or joint blocks)
- humidity or oxidation (equipment stored outside should have been covered with
- a plastic sheet, sheltered from humidity, dirt and dust)
- firm's label defining the product's characteristics.



Checking power connections

Points concerning installation and fittings

Assembly compliance with the specifications of the installation drawing, service instructions and the catalogue:

- no busbar trunking twisting
 positioning and distance of the busbar trunking with respect to the building
- fixings, compliance of the between centres distance of the equipment for flat or edgewise, horizontal or vertical distribution
- clamps, not fully blocked to allow movement due to longitudinal forces
- presence of expansion sections if necessary.

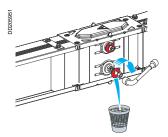
22 6 daN.m

General visual inspection

Check the number of connection parts and their cross-sections for each conductor (see "Installation guide").

Check insulation distances between 2 conductors and between conductors and metal panels.

Check the tightening torque of bolts not fitted with torque nuts. For bolts fitted with torque nuts, check the head has broken-off.



Check the bolt length exceeding the nut ; some bolts may have been removed and then put back, but left untightened.

Mark each tightened nut using indelible varnish. As well as a means of selfinspection to ensure correct tightening torque, it also allows any untightening to be identified.

Class 8-8 nuts and bolts (M8 on LV switchboard side, see "Commissioning Guide for Schneider Electric LV Switchboards").

| Bolt | Tightening torque |
|------|-------------------|
| HM16 | 16 daN.m |
| HM14 | 12 daN.m |
| HM12 | 7 daN.m |
| HM10 | 5 daN.m |

The results of all these checks must be noted on the results sheet by the installation contractor.

Checking insulation between live conductors

- These measurements and checks can only be performed if:
- each link is disconnected by an isolating device,

each link is disconnected from the upstream transformer, with the main circuit breaker upstream of the LV switchboard unplugged and in the open position. Test means: 500 V DC megger (DC to avoid capacitive currents) Measurements: 6 measurements between live conductors (between phases and

then between each phase and neutral).

- LV circuit insulation value, according to IEC 60364-6 (and 61.3.3) standard:
- rated voltage < 500 V</p> U test DC = 500 V Ri ≥ 1 MΩ
 - rated voltage > 500 V U test DC = 1000 V Ri ≥ 1 MΩ.



Testing and commissioning procedure

Canalis KTA

Checking the earth network and locks

Earth network

General visual inspection

- Check:
- the galvanised steel casing sides are earthed (note: this depends on the earthing system)
- connection quality
- cable cross-section

■ there are no loose metal parts (washers, screws) in the tap-off units.

Note: the results of these checks must have already been noted on the results sheet by the installation contractor.

Checking insulation between live conductors and earth

Following this check, each link must be reconnected to the upstream transformer (use the 2^{nd} available 6 daN.m torque bolt heads).

Test means: 500 V DC megger (DC to avoid capacitive currents) **Measurements:** between each phase or neutral⁽¹⁾ and earth (the casing if it is connected to earth).

LV circuit insulation value, according to IEC 60364-6 (and 61.3.3) standard:

- rated voltage < 500 V U test DC = 500 V Ri ≥ 1 MΩ
- rated voltage > 500 V U test DC = 1000 V Ri ≥ 1 MΩ.

(1) No neutral insulation if the earthing system is such that the neutral is connected to or used as the earth.

Caution: in this case, once the transformer has been reconnected (star secondary), the phaseearth measurement is the winding resistance.

PE protective circuit equipotential

Reference: IEC 61439-1:

Check PE protective circuit continuity by visual inspection and random continuity testing.

The previously performed "phases-PE" insulation test must have been compliant. **Test means:** ohmmeter.

Locks

To protect personnel by not allowing access to live parts through the use of locks. Only concerns key operated safety locks.

Checking connections and auxiliary testing

Check not relevant to busbar trunking.



De-energised equipment operating tests Checking source circuit breaker protection settings

Compliance check in accordance with the installation drawing specifications: Imax thermal

In magnetic.

Note: this check is only to be performed if the busbar trunking is commissioned at the same time as the transformer: the source circuit breaker protection setting checks are related to transformer commissioning. Check not relevant if the transformer has already been commissioned.

If this check is successful, the busbar trunking can be commissioned and the energised operating tests performed with the appropriate protective equipment

Commissioning and energised equipment operating tests

NOTE: commissioning can only be carried out by personnel with appropriate authorisations.

Preliminary operation: energising the off-load transformer. **Closing the source circuit breaker.**

Checking phase order

Objective: to detect, in order to correct, an inversion of the phases or neutral amongst the busbar trunking's 4 incoming and outgoing connections with respect to the transformer output.

Test means: roto-phase or 3-phase harmonic analyser.

If busbar trunking energising is successful, a progressive start-up of the factory must be requested to definitively validate commissioning.

If unsuccessful, the previous checks must be carried out again to try and locate the fault. Before undertaking this, the equipment must once again be made safe.

Final putting into service test

This test is performed once the busbar trunking has been energised. The progressive start-up of loads will highlight any undesirable phenomena due to the increased average load.

Real life operating test

Once the high power busbar trunking has been energised, the other busbar trunking must be gradually put into service starting with those furthest from the load, then each load itself, those with high pull-in currents, then the lighting, contactors, heating, motors, etc.

There must not be excessive vibration, and no sparkovers should be observed.

The test simply consists of checking correct busbar trunking operation according to:

- the average number of machines in operation
- the load variation of each individual load
- the simultaneous operation of machines (superimposing of peaks).

If everything is in order, the busbar trunking is declared "in-service". Testing is completed.

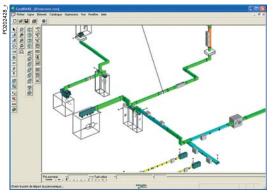
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Layout advice Run optimisation

Canalis KTA

PowerSet Canalis Design software



PowerSet Canalis Design software can be used to design the busbar trunking line.

The easy-to-use program creates a graphic model of the line, determines the length and draws up the list of Canalis KT parts to order.

The Canalis KT line is easy to specify simply by indicating the required dimensions. However, it is strongly advised to use the shortest and simplest path possible between the transformer and the switchboard.

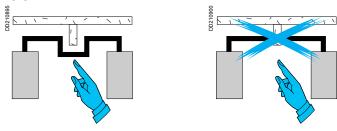
It is important to carefully plan the layout of the transformer and switchboard in order to use:

- the maximum number of standard components rather than made-to-measure components
- the minimum number of components for changing direction
- straight made-to-measure components rather than made-to-measure components for changing direction.

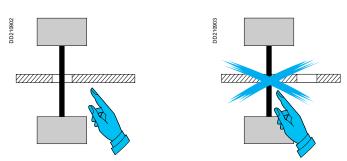
Advice

Before defining your busbar trunking run, it is recommended you pay particular attention to the various parameters which could be detrimental to the installation.

Obstacles that obstruct the busbar trunking such as beams, pipes, etc.



Badly positioned places for going through walls and floors.

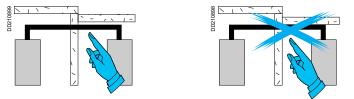


Joint positions in the middle of a partition wall.

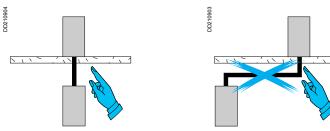


Insufficient ceiling height. If the busbar trunking must be installed edgewise between a transformer and switchboard, ensure the ceiling height is sufficient for fitting the joint blocks from the top.

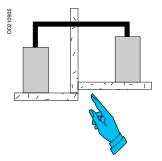
Reserve a space between the busbar trunking and the ceiling equal to 100 mm (variable depending on the rating, see "Catalogue numbers and dimensions").



Going through a floor to bottom feed a switchboard on the next floor.



Difference in floor levels of 2 rooms.



Also make sure that as the work progresses other tradesmen do not carry out installations that could hinder your initial layout.

Layout advice

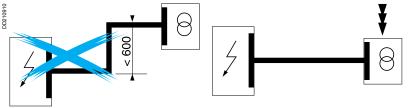
Run optimisation

Canalis KTA

Examples of link optimisation

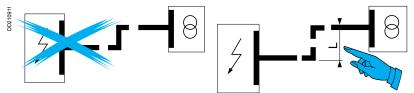
Example 1

Reducing the number of changes of direction by modifying the switchboard or transformer layout.



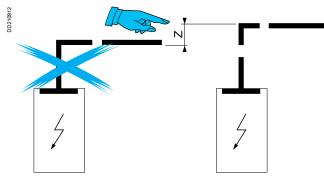
Example 2

Use of 2 standard elbows in place of a made to measure zed by increasing dimension "L".



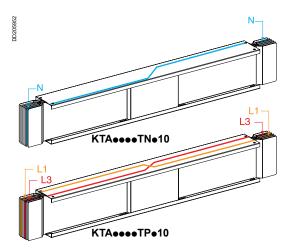
Modification of the busbar trunking height

By slightly increasing dimension "Z", replace a made to measure elbow feed connector with a standard feed connector and standard elbow section.

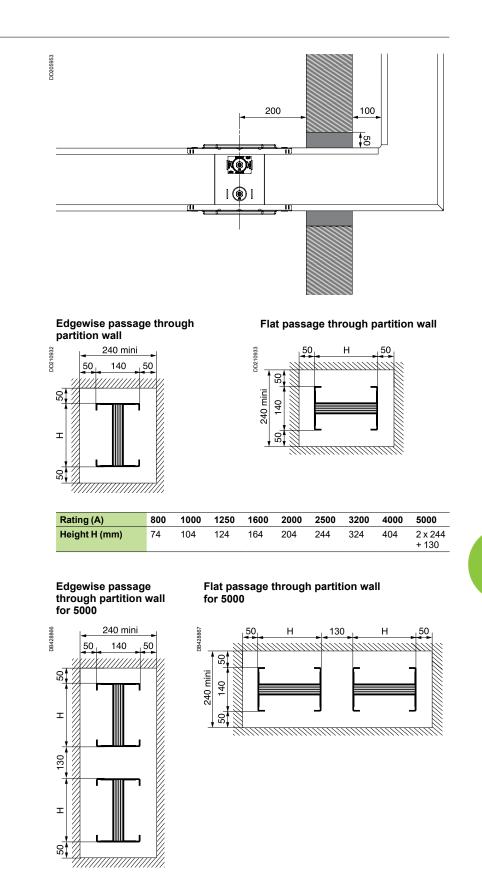


When choosing the layout of the electrical installation, it is important care is taken when positioning the neutral between the transformer and the switchboard. If the neutral position is different to that planned, it is recommended the transformer is moved, if possible, to align the neutral with respect to the switchboard's neutral. When it is not possible to move the transformer, it is recommended the phase order in the switchboard is inversed.

If this cannot be done, use the phase and neutral transposition section.



Neutral position



Layout advice Positioning and supports

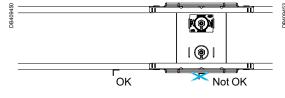
Canalis KTA

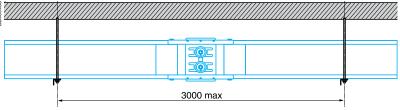
A support point as close as possible to the connections is needed because transformers, generator sets and switchboards must not support the weight of the busbar trunking.

In some industries, for service continuity reasons, transformers may be replaced quickly. The busbar trunking must be able to support itself.

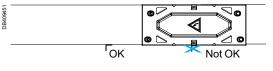
Edgewise horizontal installation

The maximum recommended distance between supports is 3 metres. In all cases, provide for 2 supports for 4 metre sections. For clamping busbar trunking to support brackets, see page 210.





Flat horizontal installation

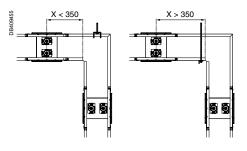


The recommended distance between supports is 2 metres. In addition, a support must be placed at 400 mm maximum from the joint block axis. For clamping busbar trunking to support brackets, see page 210.

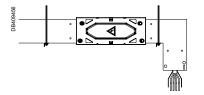
| B40945 | | | |
|---------|--------------|-----|---------|
| | | | N N |
| | | | |
| 400 max | 2000 max | r r | 400 max |
| 400 max | 2000 IIIax ► | | 400 max |

Example of spreading out supports

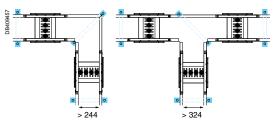
Supporting of LC elbow with a vertical branch

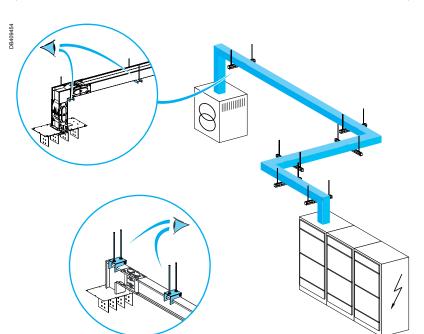


Supporting of LP elbow with a vertical branch



Supporting of LC elbows and TC tees (top view)



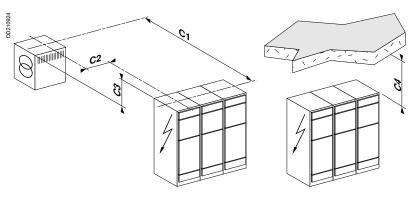


Rules to follow

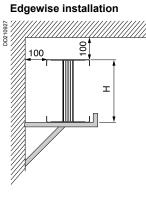
- An element must never be left unsupported.
- For easier leveling, always use two supports for each element wherever possible.
- A bracket must never coincide with a junction block.
- The capacity of fixing brackets in terms of supporting is at least the weight of the busbar trunking system plus 90 kg, in accordance with IEC 61439-6.
- Terminals must be fixed by its own brackets not be supported by transformers or switchboards.
- Vertical branches must be always supported the closer as possible to the elbow angle.
- Elbows and zeds must be supported individually.
- Supports must be installed close to junctions.

Defining the layout, dimensions to be provided

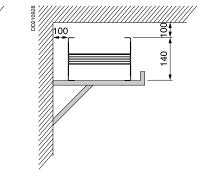
The position of the joint block with respect to the transformer axes and switchboard edges (defined in the "Installation guide").



Distance of the busbar trunking from the wall





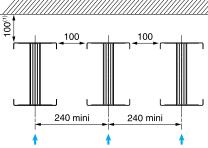


| Rating (A) | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
|---------------|-----|------|------|------|------|------|------|------|------------------|
| Height H (mm) | 74 | 104 | 124 | 164 | 204 | 244 | 324 | 404 | 2 x 244 + 130 |

Distance between busbar trunking (without tap-off units)

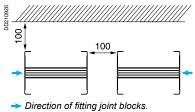
Edgewise installation

DD210925



(1) Provide 2 times the height if the joint block must be fitted from the top.
 Direction of fitting joint blocks.

Flat installation

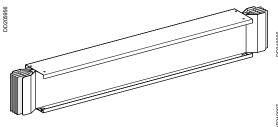


Layout advice

Anticipate unexpected worksite problems

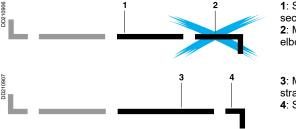
Canalis KTA





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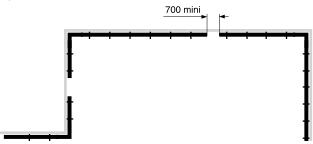
This section will be ordered after the gap to be filled has been measured at the end of the job. To optimise its delivery to site, prefer a straight section with a length of less than 2 metres rather than made to measure elbows.



1: Standard straight section. 2: Made to measure elbow.

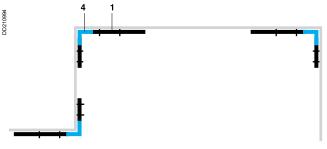
3: Made to measure straight section.4: Standard elbow.

On the drawing, provide a minimum dimension of 700 mm to guarantee an adjustment of ± 200 mm on-site. The minimum length of straight sections being equal to 500 mm.



Layout recommendations for adjustable or undecided sections

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).



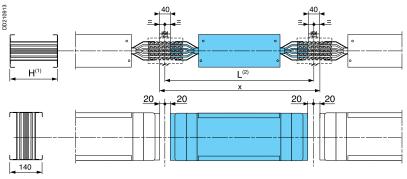
And then complete the layout with standard and made to measure straight sections.

Tips for determining dimensions at the worksite

Straight section

The nominal length "L" of a straight section is measured from the axis of the joint block to the other axis of the joint block, in millimetres (the joint block axis is located 20 mm from the end of the bars).

Dimension L of the standard or made to measure section = \mathbf{x} - 40 mm.

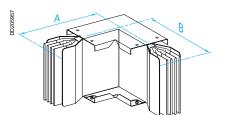


(1) For the different busbar trunking heights, see page 201.(2) See "Run sections" in "Catalogue numbers and Dimensions".

x : measured dimension.

Example: **x** = 1860 mm hence L = 1860 - 40 = 1820 mm.

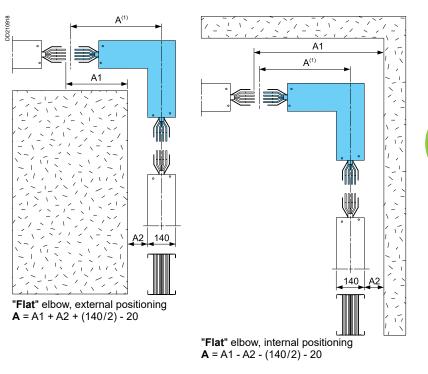
Change-of-directions



A and B: see "Changes of direction" in "Catalogue numbers and Dimensions".

Flat elbows

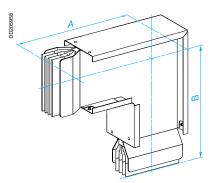
The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.



(1) See "Changes of direction" in "Catalogue numbers and Dimensions".

Layout advice Tips for determining dimensions at the worksite

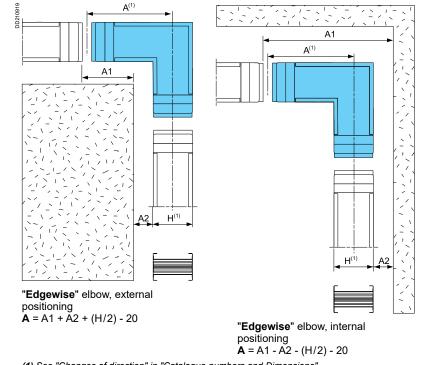
Canalis KTA



A and B: see "Changes of direction" in "Catalogue numbers and Dimensions"

Edgewise elbows

The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.

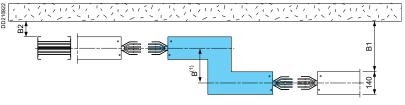


(1) See "Changes of direction" in "Catalogue numbers and Dimensions".



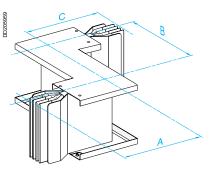
The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.

The nominal length of the intermediary branch(es) is measured from the axis of one branch to the axis of another.

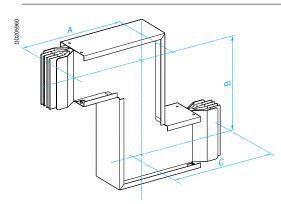


B = B1 - B2

(1) See "Changes of direction" in "Catalogue numbers and Dimensions".



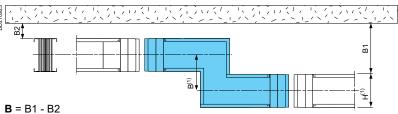
A, B and C: see "Changes of direction" in "Catalogue numbers and Dimensions".



Edgewise Zed

The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.

The nominal length of the intermediary branch(es) is measured from the axis of one branch to the axis of another.

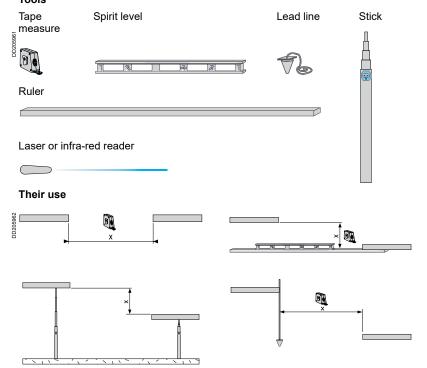


 A, B and C: see "Changes of direction" in "Catalogue numbers and Dimensions".
 B = B1 - B2

 (1) See "Changes of direction" in "Catalogue numbers and Dimensions".

Definition of final section parameters

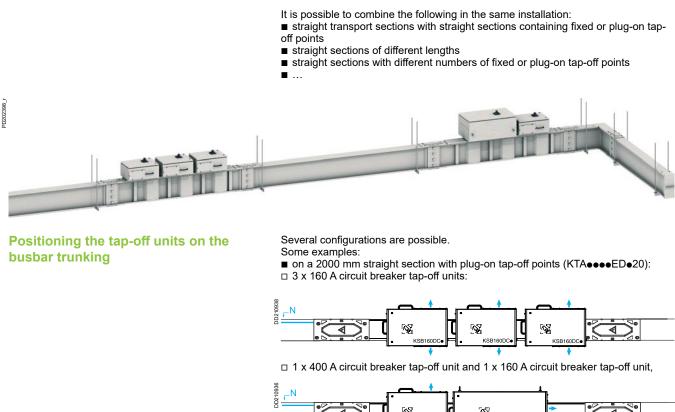
Reminder: the final section should preferably be a straight section. Take into account the neutral position when choosing the section. **Tools**

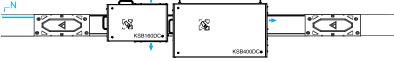


Horizontal distribution

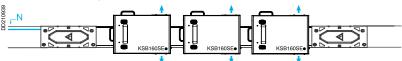
Positioning the tap-off units

Canalis KTA

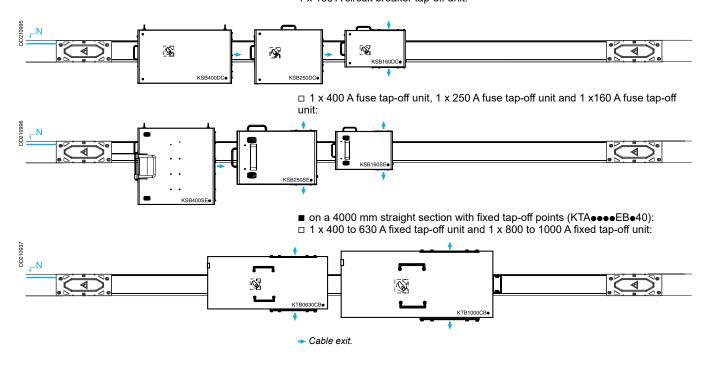




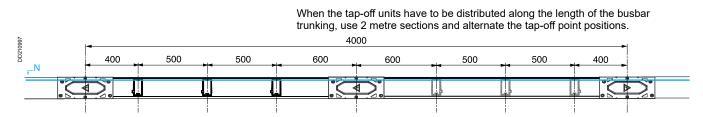
□ 3 x 160 A fuse tap-off units:



■ on a 4000 mm straight section with plug-on tap-off points (KTA●●●ED●40): □ 1 x 400 A circuit breaker tap-off unit, 1 x 250 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit:

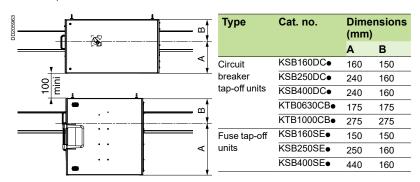


Tap-off units



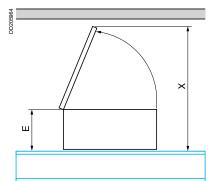
Recommendations for installing 2 parallel busbar trunking runs

For an installation with tap-off units, provide for a between centres distance that takes into account the minimum dimension of 100 mm and the dimensions A and B of the tap-off units.



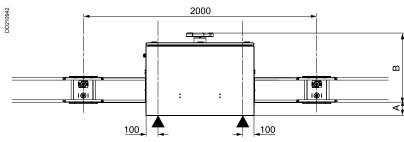
Tap-off unit door opening

Provide for a minimum distance of 1000 mm between the busbar trunking and the ceiling to allow for the opening of tap-off unit doors.



| Туре | Cat. no. | Dimensions (mm) | | | | |
|----------------------|-----------|--------------------|-------------------------|--|--|--|
| | | Х | E ⁽¹⁾ | | | |
| Circuit | KSB160DC• | 625.5 | 246 | | | |
| breaker | KSB250DC | 726.5 | 300 | | | |
| tap-off units | KSB400DC• | 976,5 | 350 | | | |
| Fuse tap-off | KSB160SE | 577,5 | 207 | | | |
| units | KSB250SE | 777 | 258 | | | |
| | KSB400SE | 855 | 316 | | | |
| (1) With the handle. | | | | | | |



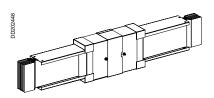


| Rating (A) | Dimensions (mm) | | | |
|------------|-----------------|-----|--|--|
| | A | В | | |
| 1000 | 159 | 529 | | |
| 1250 | 149 | 539 | | |
| 1600 | 129 | 559 | | |
| 2000 | 109 | 579 | | |
| 2500 | 89 | 599 | | |
| 3200 | 98 | 662 | | |

Horizontal distribution

Checking and compensating for expansion

Canalis KTA



Long part runs

Expansion poses a problem when:

■ the runs are made up of long straight sections

■ when the busbar trunking passes through an expansion joint between two buildings.

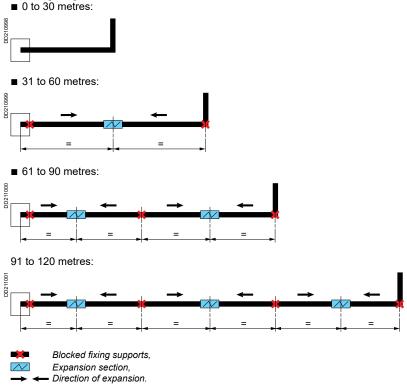
Electrical busbar trunking can be subjected to a multitude of load variations during its service life (e.g. day/night, summer/winter) which cause temperature rise differences and thus variable expansions.

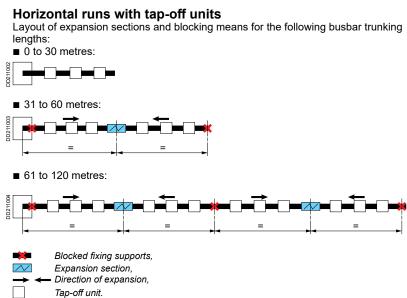
To absorb expansion in a Canalis KT busbar trunking, a specific section must be used: the expansion section.

Horizontal runs without tap-off units

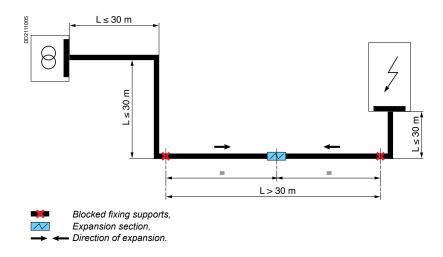
If the busbar trunking length is greater than 30 metres, provide for expansion sections and appropriate blocking means. The ends and, in some cases, the centre of part runs must be blocked in order to direct the extensions towards the expansion sections.

Layout of expansion sections and blocking means for the following busbar trunking lengths:





Transformer/switchboard links



Horizontal distribution

Checking and compensating for expansion

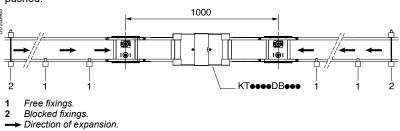
Canalis KTA

Rules for fixing busbar trunking to the supports

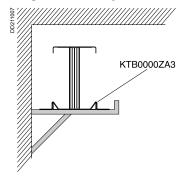
For correct system operation, the expansion of the part run in question must be directed towards the expansion section.

This implies:

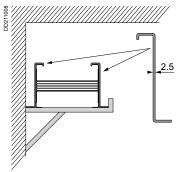
the busbar trunking must be free from all longitudinal movement on its supports
 the expansion section must be blocked on the opposite side to that by which it is pushed.



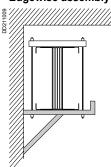
Installation of free fixings Edgewise assembly



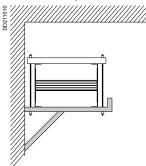
Flat assembly



Installation of blocked fixings Edgewise assembly

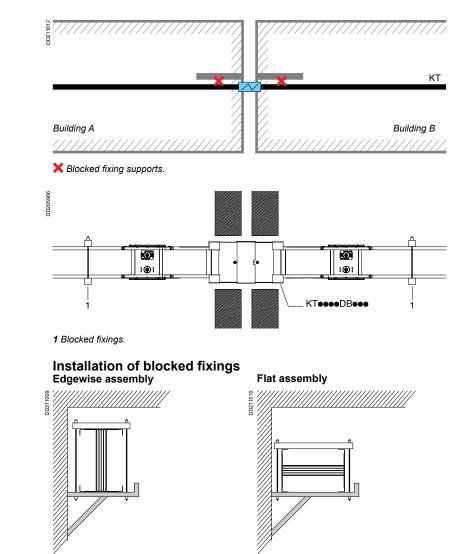


Flat assembly



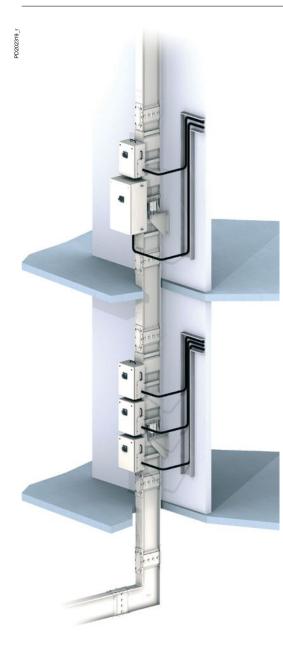
Passing through a joint between 2 buildings

Here, the expansion section allows the busbar trunking to absorb the forces due to the relative movement between the 2 buildings.



Rising mains General

Canalis KTA



Canalis KT enables power distribution to each floor of multi-storey buildings (office buildings, hotels, hospitals, etc).

In this application, Canalis KT retains all its construction principles:

Vertically mounted, the protection degree of the KT busbar trunking is IP55 as standard.

Installing a rising main

1 Installation principle

Installation at each floor of:

- a 2 metre distribution section
- a made to measure transport section to go through the floor slab
- a busbar trunking support
- up to 3 x 160 A tap-off units or a 250 or 400 A tap-off unit and a 160 A tap-off unit.

2 Installation feed

The installation feed is achieved using either a cable box or by direct connection to an electrical distribution switchboard.

3 Busbar trunking supports

The supports fix the vertical run section to the building structure. a floor slab support. It can be fixed to either the wall, to a wall bracket or directly to the floor, This type of fixing support has the following advantages:

- fitting to either the wall, to a wall bracket or directly to the floor
- height adjustment to make up for positioning errors
- depth adjustment from 50 to 100 mm
- spring adjustment to ensure distribution of the load at each floor

■ absorption of building stresses with respect to the busbar trunking (expansion, vibration, etc) thanks to the springs.

4 Tap-off units

All Canalis KS tap-off units can be mounted vertically on the Canalis KT without the risk of interference with the supports.

Positioning the neutral The busbar trunking must be positioned with the neutral on the right. Positioning the joint block It is important the joint block is not positioned in the floor slab. ≥ 200 We recommend you provide for a distance of: 500 mm for a floor fixing D205966 0 ≥ 1000 ≥ 400 ≥ 400 ≥ 200 0 8 500 Positioning the tap-offs The run sections are fitted with 3 tap-off points. Spaced at 500 mm intervals, they 500 provide a high density of tap-offs per floor. Edgewise passage through Flat passage through partition wall partition wall 800 240 mini D210932 D210933 50 140 50 50 50 240 mini 4 ≥ 400 Т 5

Positioning the busbar trunking without external fire barrier

Life Is On Schneider Belectric 213

3200

324

4000

404

2

50

Rating (A)

Height H (mm)

800

74

1000

104

1250

124

1600

164

2000

204

2500

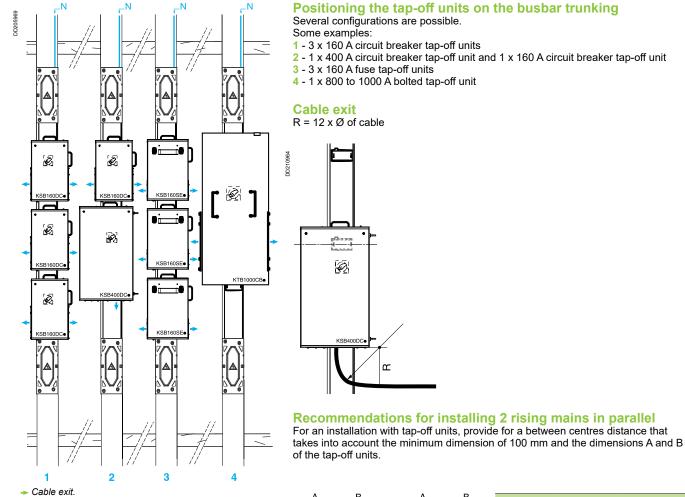
244

■ 400 mm between the floor slab and the joint block axis to be able to install a support to the wall or wall bracket to facilitate the re-filling of the hole and to cope with possible building faults (e.g. screed not indicated on the drawings). Provide

■ 200 mm between the upper joint block and the ceiling to allow the busbar trunking to be boxed-in when filling-in the hole with plaster or concrete.

Rising mains Positioning the tap-off units

Canalis KTA



В Туре Cat. no Dimensions (mm) Α в Circuit KSB160DC• 160 150 breaker KSB250DC• 240 160 tap-off units KSB400DC 240 160 KTB0630CB• 175 175 100 KTB1000CB• 275 275 mini KTB0630DC 275 275 Fuse tap-off KSB160SE 150 150 units

Tap-off unit door opening

If installed in a technical room, provide for a minimum distance of 1000 mm between the busbar trunking and the wall in order to be able to open the doors of the tap-off units.

KSB250SE

KSB400SE

KTB0630SD

250

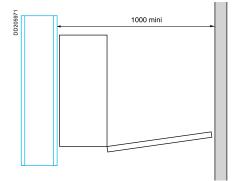
440

275

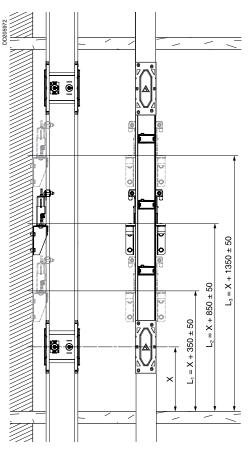
160

160

275



Positioning of supports



X≥400.

Spring hangers vertical supports KTB••••ZA5• are designed for buildings with an average gap between floors of 3 to 4 meters between each floor.

- If these distance is punctually reduced or increased (Max 5 meters with no more than 1 element without support in between) additional supports should then be added to fit a good column consistency. The average distance between supports should stay between 3 to 4 meters.

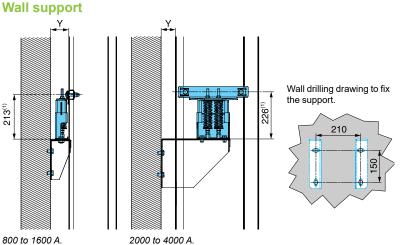
- Also, a distribution element with high rating tap offs (630 A and more) should have a spring hanger on its length.

2 fixing systems are available:

DD210967

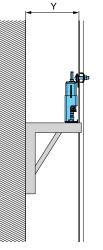
DD210966

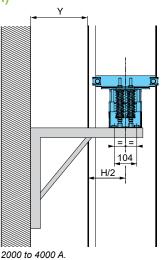
- a rear wall fixing system for 800 A to 1600 A busbar trunking
 a side wall fixing system for 2000 A to 4000 A busbar trunking.



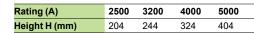
(1) Dimensions with free springs. Y : 50 mm minimum to 100 mm maximum

Wall bracket support (if Y > 100 mm)

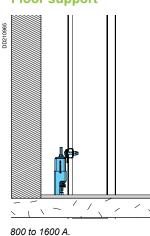


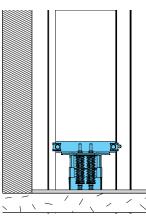


800 to 1600 A.







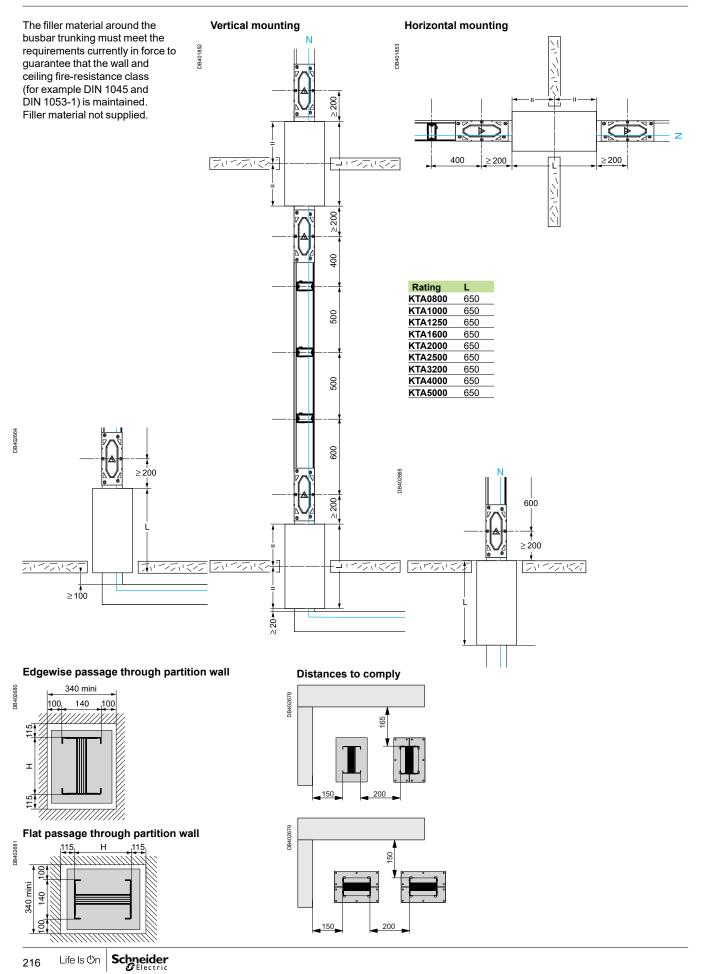


2000 to 4000 A.

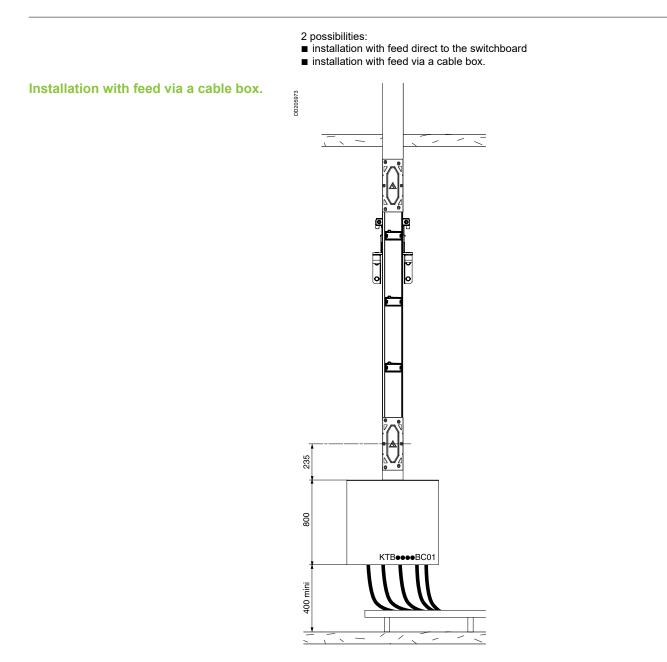
Rising mains

Positioning the external fire barriers

Canalis KTA



Installation with feed via a cable box or direct onto the switchboard

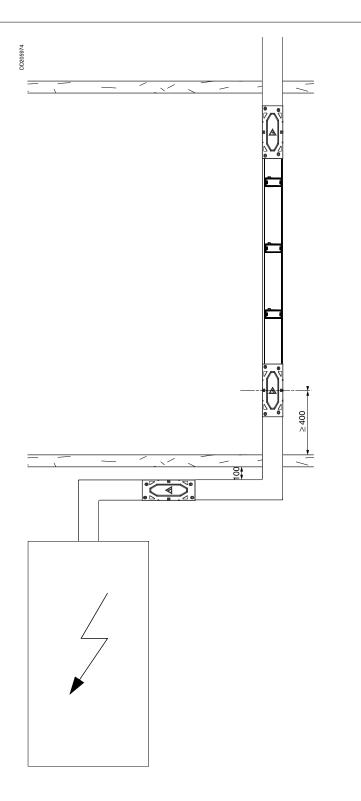


Rising mains

Installation with feed via a cable box or direct onto the switchboard



Installation with feed direct to the switchboard



Life Is On Schneider 219

Panorama of connection solutions

Canalis KTA

| The Sch | neider Ele | ectric syste | em | | | | | | | | | |
|-----------------------------|--------------------------------------|------------------------|------------|-----------|---|--|---|--|---|--|----------------------------------|---------------------|
| Compatibi | lity between | Trihal transfo | ormers/Ca | | omplete tr sing dedi- ansforme tested ar fast and shorter le dvantage No desig Simplifie pre-defir simplifie smaller s Transform Short lea Adaptab transform switchbo Continuit transform Safety: trunking compliar excellent Comfort: low level no noise | In work for d layout de ned positior d routing (c size (no add mer and sw ad times an le on the w ner end: ±1 bard end: pl ty of service ner can be ner, trunkin fully tested ce with sta t fire-withst | /Canalis H faces, the witchboar dised cont tallation the conne esign: n of the joi only three ditional cc vitchboarc ditional cc vitchboarc ditional cc vitchboarc ditional cc vitchboarc difewer c orksite: 5 mm adj hases car e: replaced g and swi in complia and capal magnetic i | KT/switchb trunking ca d for: nections ections. inting unit dimension vers required the section atalogue n ustments a be inverted in less that itchboard co in less that itchboard co | oard insta onnects d red). with conne umbers fo along all th ed. n one hou lesigned t | allation. irectly to t ections all or connect hree axes ir o be used | he dry-typ ready mou ions. | 3 |
| Trihal trans | formers | | | | Prisma P | or Okken s | witchboar | ds | | | | |
| Rating Naturally ventilated | ventilated | Forced ventilated (AF) | | | | W circuit b | | | | ircuit brea | | NW circuit breakers |
| | (AN) dry-type dry-type transformers, | | | | 800 A | 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A | 4000 A |
| | le max. | 25% overload | Interfaces | | 08/16 | | | | 20/25 | | 32 | 40 |
| | | accepted | | Junctions | H164 | | | | H244 | | H404 | H404 |

| | | accepted le max. | | Junctions | n 104 | | | | NZ44 | | M4V4 | H404 |
|----------|--------|---------------------|-----|-----------|---------|---------------------|---------|---------------------|---------------------|---------------------|---------------------|---------|
| 630 kVA | 887 A | 1109 A | n°1 | H124 | , | KTA1000, KTA1250 | , | KTA1000, KTA1250 | - | - | - | - |
| 800 kVA | 1126 A | 1408 A | n°2 | H164 | | KTA1250, KTA1600 | | KTA1250, KTA1600 | KTA1600 | KTA1600 | - | - |
| 1000 kVA | 1408 A | 1760 A | n°3 | H204 | KTA1600 | KTA1600 | KTA1600 | KTA1600 | KTA1600, KTA2000 | | - | - |
| 1250 kVA | 1760 A | 2200 A | n°4 | H244 | - | - | - | - | , | KTA2000, KTA2500 | - | - |
| 1600 kVA | 2253 A | 2816 A | n°5 | H324 | | | | | KTA2500 | KTA2500 | KTA3200 | KTA3200 |
| 2000 kVA | 2813 A | 3516 A | n°6 | H404 | - | - | - | - | - | - | KTA3200, KTA4000 | , |
| 2500 kVA | 3520 A | 4400 A | n°7 | H404 | - | - | - | - | - | - | KTA4000 | KTA4000 |

(1) The compatibilities indicated correspond to the electrical connection possibilities; in all cases, coordination between circuit breaker and electrical busbar trunking must be checked. Connection to an LV

Connection to a dry-type transformer using a dedicated interface,

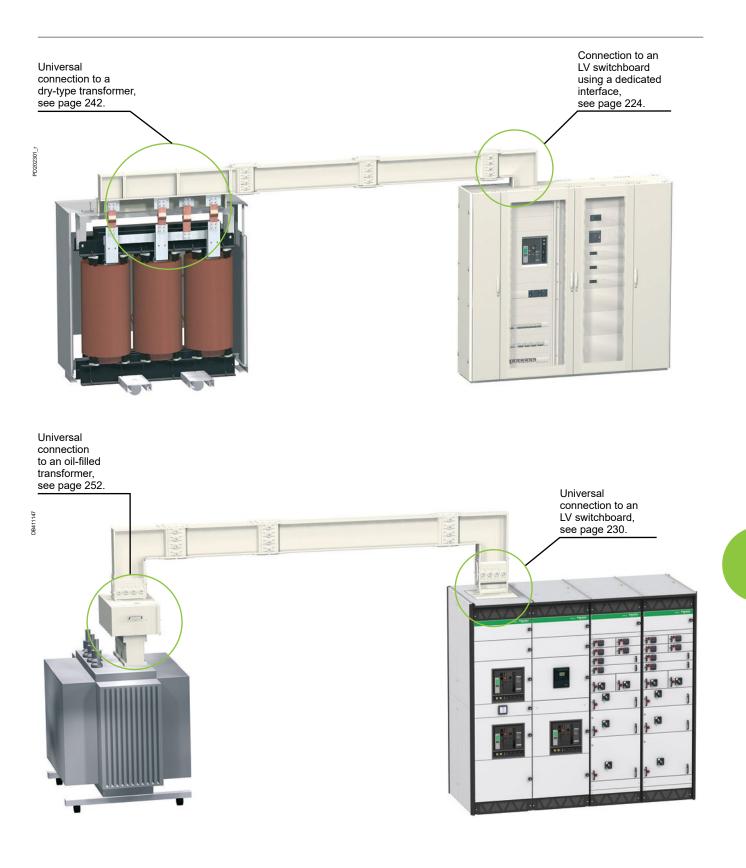
see page 239.

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78

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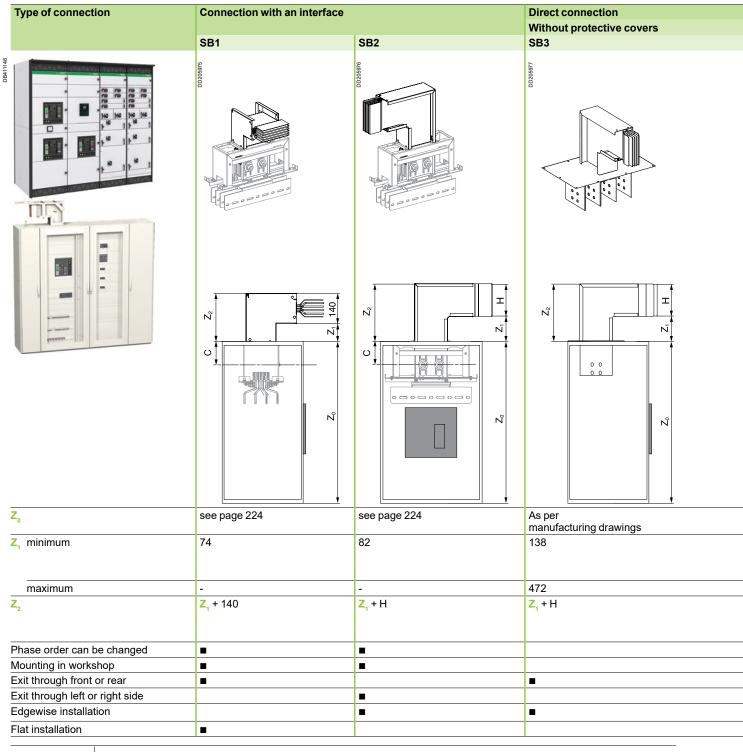


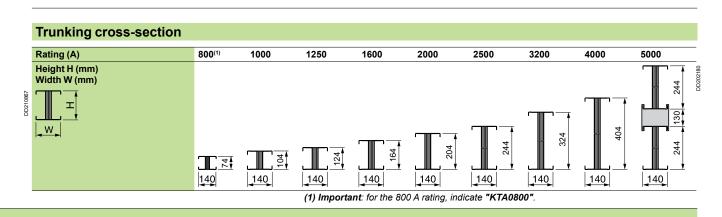
Connection to LV switchboards Selection guide

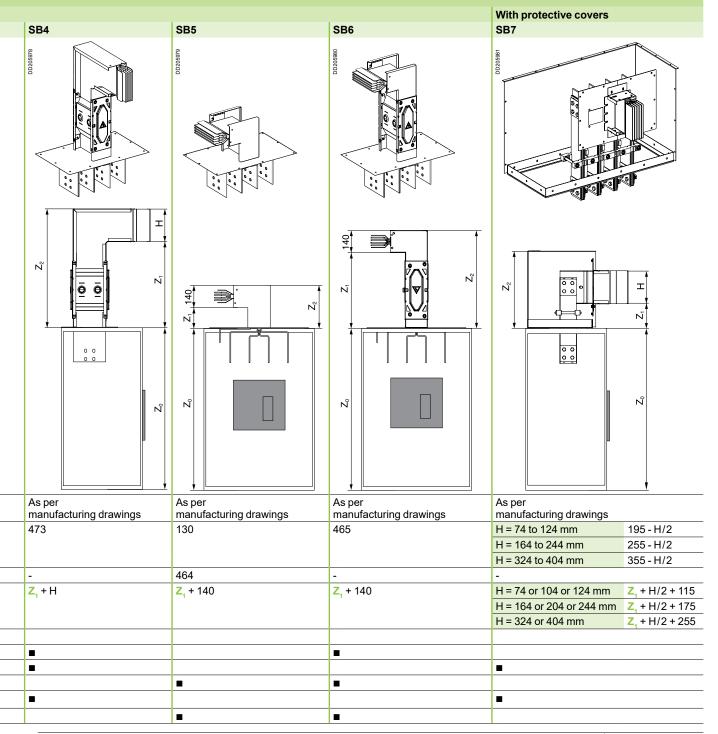
Canalis KTA

This guide may be used to:

- select the connection best suited to your installation (incoming direction, trunking installed flat or edgewise, different phase order)
- check the total height of the connection with respect to the ceiling, i.e. dimension Z0 + Z2 (100 mm minimum clearance required between top of
- connection and ceiling)
- optimise the connection by ensuring that $(Z0 + Z1)_{switchboard} = (Z0 + Z1)_{transformer}$ to
- avoid having to use elbows and zed units
- position the fixing devices used to support the trunking.







Installation guide

Connection to LV switchboards

By Canalis interface

Canalis KTA



Switchboards can be equipped with connections for Canalis KT. Jointing with the switchboard is via a standard run component (straight length, elbow, etc.) and a jointing unit (identical to those used between line components). The trunking enters the switchboard via the top (roof).

Switchboard connections are available from 800 to 4000 A.

| Type of switchboard | Rating of trunking (A) | Type of circuit breaker | Type of connection |
|---------------------|---------------------------|-------------------------|---------------------|
| Prisma P | 800 to 1600 | Compact NS | Top direct and rear |
| | | Masterpact NT | Top direct and rear |
| | 800 to 3200 | Masterpact NW | Top direct and rear |
| | 4000 | Masterpact NW | Rear |
| Okken | 800 to 4000 | Masterpact NW | Top direct and rear |

Connections are tested and qualified under normal operating conditions in terms of temperature rise ($\Delta \theta$) and short-circuit currents (Isc).

The panel builder receives and connects the Canalis KT interface in the workshop. The phase order at the interface output can be adapted if necessary (this information must be forwarded to the panel builder). The switchboard is then delivered to the site and the trunking can be rapidly connected using a simple jointing unit with torque nuts to ensure the correct

Compatibility between Canalis KT and the interface in the switchboard⁽¹⁾⁽²⁾

| Canalis K | кт | | | Circuit breakers in Okken and Prisma P switchboards | | | | | | | |
|-----------|--------|--------|-------------|---|----------|--------|---------------------|--------|---------------------|---------------------|--|
| | | | | NS/NT/NW | NS/NT/NW | | NS/NW | | NW | | |
| Cat. no. | Rating | Height | Sealing kit | 800 and 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A | 4000 A | |
| | (A) | (mm) | | Interface 08/16 | | | Interface 20/25 | | Interface 32 | Interface 40 | |
| | | | | H164 ⁽³⁾ | | | H244 ⁽³⁾ | | H404 ⁽³⁾ | H404 ⁽³⁾ | |
| KTA1000 | 1000 | 104 | KTB0104TT01 | | | | | | | | |
| KTA1250 | 1250 | 124 | KTB0124TT01 | | | | | | | | |
| KTA1600 | 1600 | 164 | KTB0164TT01 | | | | | | | | |
| KTA2000 | 2000 | 204 | KTB0204TT01 | | | | | | | | |
| KTA2500 | 2500 | 244 | KTB0244TT01 | | | | | | | | |
| KTA3200 | 3200 | 324 | KTB0324TT01 | | | | | | | | |
| KTA4000 | 4000 | 404 | KTB0404TT01 | | | | | | | | |

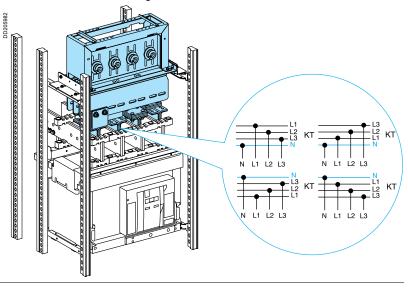
tightening torque.

(1) The compatibilities indicated correspond to the electrical connection possibilities; in all cases, coordination between circuit breaker and electrical busbar trunking must be checked.
(2) Coordination with a dry-type transformer, see the "Transformer" section, page 239.
(3) Height of the jointing unit in millimetres.

The prefabricated connections installed in the switchboard are designed to operate without derating and can therefore operate at the rated circuit breaker current.

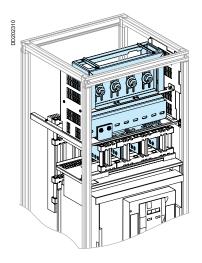
Phase order

Using the dedicated interface, it is possible to change the phase order if it is different between the trunking and the switchboard.



By Canalis interface Connection to Okken switchboards

Top direct connection (TDC)

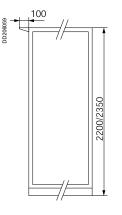


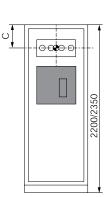
To 800 to 4000 A Masterpact NW circuit breakers ■ Enclosure 600 or 1000 mm deep, access through the front.

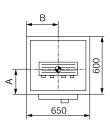
Position of the jointing unit

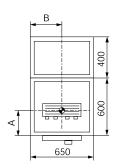
| Circuit breaker | | Dimensions (mm) | | | |
|-------------------------------|---------|-----------------|-----|-----|--|
| | | A | В | С | |
| Drawout, 3P/4P ⁽¹⁾ | NW08/16 | 175 | 325 | 156 | |
| | NW20/25 | 175 | 325 | 156 | |
| | NW32 | 175 | 325 | 156 | |
| | NW40 | 175 | 325 | 156 | |

(1) To order, see "Catalogue numbers", page 78.









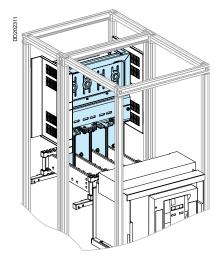
Reference point

Connection to LV switchboards

By Canalis interface Connection to Okken switchboards

Canalis KTA

Rear connection (RC)



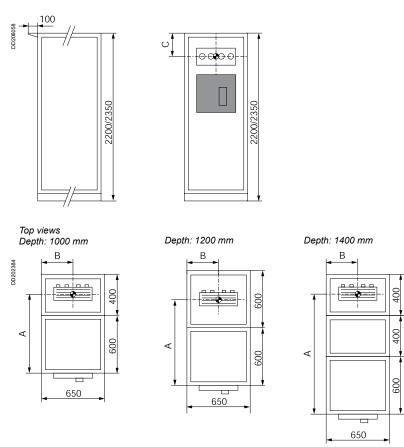
To 800 to 4000 A Masterpact NW circuit breakers

Enclosure 1000, 1200 or 1400 mm deep, access through the rear.

Position of the jointing unit

| Circuit breaker | | Dimer | nsions | (mm) | | |
|---------------------------------|---------|-------|-----------------------------------|------|-----|------|
| | | Α | A Depth (mm) 1000 1200 1400 | | в | С |
| | | Depth | | | | |
| | | 1000 | | | | |
| Drawout, 3P/4P ⁽¹⁾ , | NW08/16 | 825 | - | - | 363 | 317 |
| top position | NW20/25 | 825 | - | - | 363 | 317 |
| | NW32 | 825 | - | - | 363 | 317 |
| | NW40 | - | 953 | - | 363 | 156 |
| Drawout, 3P/4P ⁽¹⁾ , | NW08/16 | 825 | | - | 363 | 942 |
| medium position | NW20/25 | 825 | | - | 363 | 942 |
| | NW32 | 825 | | - | 363 | 942 |
| | NW40 | - | 953 | - | 363 | 881 |
| Drawout, 3P/4P ⁽¹⁾ , | NW08/16 | - | - | 1225 | 363 | 1417 |
| bottom position | NW20/25 | - | - | 1225 | 363 | 1417 |
| | NW32 | - | - | 1225 | 363 | 1417 |

(1) To order, see "Catalogue numbers", page 78.

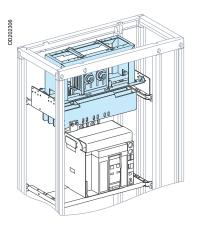


Reference point

Bottom connection

For installations with connections through the bottom, please consult us.

Top direct connection (TDC)



To a Compact NS1250 or Masterpact NT1200 circuit breaker

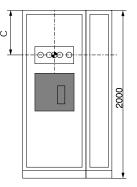
■ Enclosure 400 mm deep, access through the front.

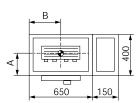
Position of the jointing unit

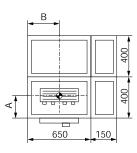
| Circuit breaker | | Dimensions ⁽¹⁾ (mm) | | | |
|-------------------------------|------------|--------------------------------|-----|-----|--|
| | | A | В | С | |
| Fixed, 3P/4P ⁽²⁾ | NS800/1250 | 236 | 325 | 160 | |
| | NT08/12 | 260 | 325 | 160 | |
| Drawout, 3P/4P ⁽²⁾ | NS800/1250 | 260 | 325 | 170 | |
| | or 08/NT12 | | | | |

(1) Dimensions measured from switchboard framework.

(2) To order, see "Catalogue numbers", page 76.







Reference point

DD210765

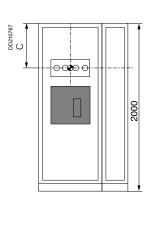
To 800 to 3200 A Masterpact NW circuit breakers ■ Enclosure 600 mm deep, access through the front.

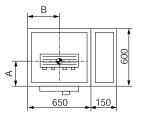
Position of the jointing unit

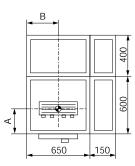
| Circuit breaker | | Dimensions ⁽¹⁾ (mm) | | | | |
|-------------------------------|---------|--------------------------------|-----|-----|--|--|
| | | A | В | С | | |
| Fixed, 3P/4P ⁽²⁾ | NW08/16 | 185 | 325 | 264 | | |
| | NW20/25 | 185 | 325 | 289 | | |
| | NW32 | 185 | 325 | 264 | | |
| Drawout, 3P/4P ⁽²⁾ | NW08/16 | 185 | 344 | 164 | | |
| | NW20/25 | 185 | 344 | 214 | | |
| | NW32 | 185 | 344 | 214 | | |

(1) Dimensions measured from switchboard framework.

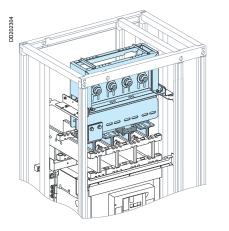
(2) To order, see "Catalogue numbers", page 75.







227





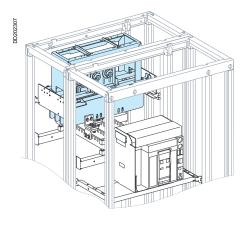
Reference point

Connection to LV switchboards

By Canalis interface Connection to Prisma P switchboards

Canalis KTA

Rear connection (RC)



To a Compact NS1600 or Masterpact NT1600 circuit breaker

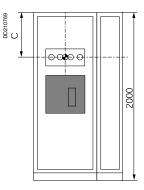
- Two enclosures combined:
- $\hfill\square$ 1 enclosure, 400 mm deep, for the circuit breaker
- □ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

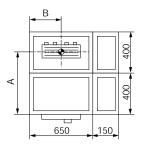
Position of the jointing unit

| Circuit breaker | Dimensions ⁽¹⁾ (mm) | | | | |
|-------------------------------|--------------------------------|-----|-----|-----|--|
| | | A | в | С | |
| Fixed, 3P/4P ⁽²⁾ | NS800/1600 or NT08/16 | 638 | 325 | 160 | |
| Drawout, 3P/4P ⁽²⁾ | NS800/1600 or NT08/16 | 638 | 325 | 170 | |

(1) Dimensions measured from switchboard framework.

(2) To order, see "Catalogue numbers", page 76.





Reference point

To 800 to 4000 A Masterpact NW circuit breakers

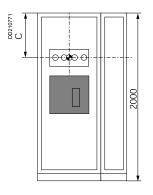
- Two enclosures combined:
- □ 1 enclosure, 600 mm deep, for the circuit breaker
- □ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

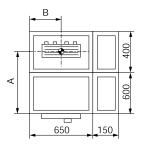
Position of the jointing unit

| Disjoncteur | | | Dimensions ⁽¹⁾ (en mm) | | | |
|-------------------------------|---------|-----|-----------------------------------|-----|--|--|
| | | Α | В | С | | |
| Fixed, 3P/4P ⁽²⁾ | NW08/16 | 815 | 325 | 264 | | |
| | NW20/25 | 757 | 325 | 414 | | |
| | NW32 | 774 | 325 | 414 | | |
| | NW40 | 790 | 325 | 414 | | |
| Drawout, 3P/4P ⁽²⁾ | NW08/16 | 815 | 317 | 414 | | |
| | NW20/25 | 815 | 342 | 414 | | |
| | NW32 | 815 | 317 | 439 | | |
| | NW40 | 790 | 325 | 414 | | |

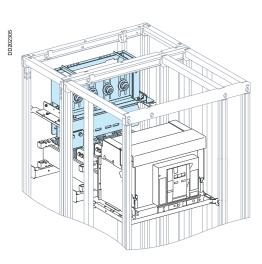
(1) Dimensions measured from switchboard framework.

(2) To order, see "Catalogue numbers", page 75.





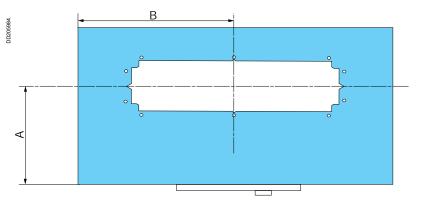
Reference point

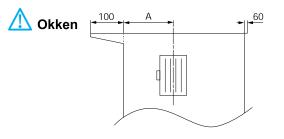


By Canalis interface Connection to Okken and Prisma P switchboards

The sealing kit must be ordered with the KT trunking. The size of the trunking determines that of the sealing kit. For the different types of kit, see the "Catalogue numbers and dimensions" pages.

The kit includes a drilling and cut-out drawing for the switchboard roof.





Cut-out drawing (for all the ratings)

1

00000

2

3

0000000

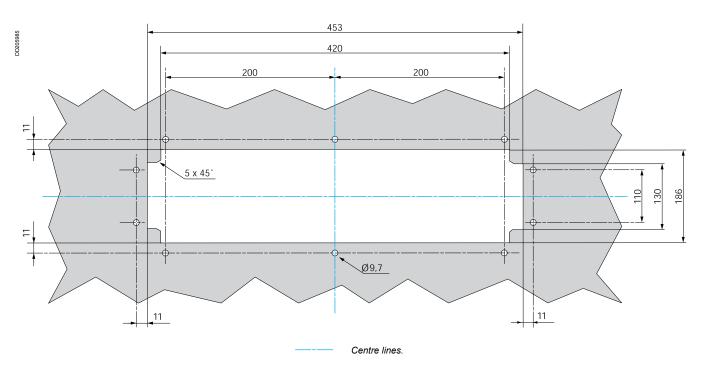
Sealing kit

KTB0

DD202314

D205983

It is advised to cut out the switchboard roof in the workshop. **Important :** the dimensions are measured from switchboard framework.





Connection to LV switchboards

By universal feed unit

Canalis KTA



Busbars in switchboard (recommended distance between centres = 115 mm)

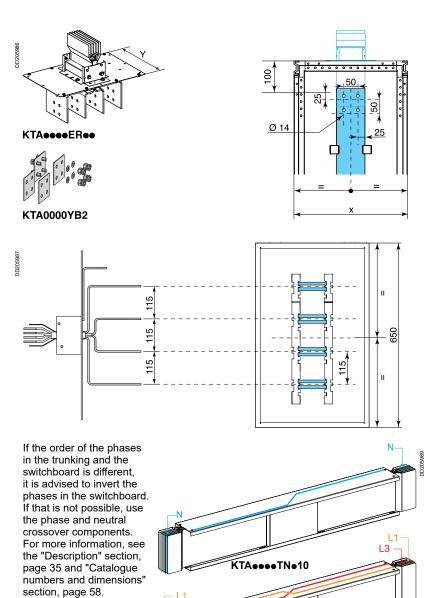
Canalis KT can be connected to switchboards via a universal connector. To simplify the work, it is advised to fit the switchboard busbars with a distance between centres of 115 mm.

Jointing with the switchboard is via a straight or elbow universal feed unit with a straight or flat outlet.

Connections are made using torque nuts offering both ease of use and the possibility of a visual check before energising.

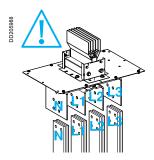
Enclosure depth depending on the rating of the trunking

| Rating of trunking (A) | Depth Y of universal feed unit plate (mm) | Minimum depth X of switchboard (mm) |
|------------------------|--|-------------------------------------|
| 1000 to 1250 | 230 | 400 |
| 1600 to 2500 | 350 | 400 |
| 3200 to 4000 | 510 | 600 |



KTA

Phase order

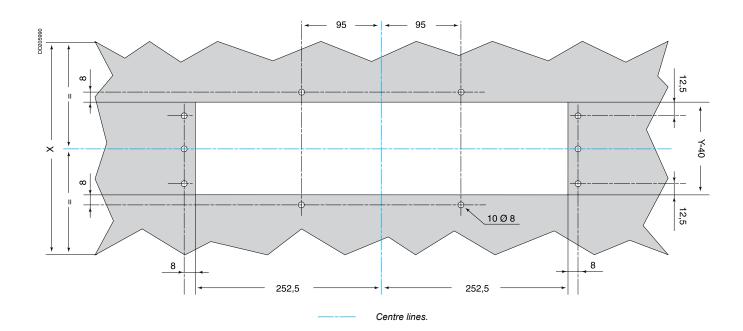


230 Life Is On Schneider

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.

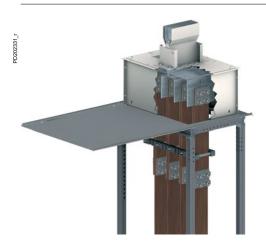
| Cut-out for universal feeder unit, with distance between centres = 115 mm | | | | | |
|---|-----|--|--|--|--|
| Rating of trunking (A) Depth Y of universal feed unit plate (mm) | | | | | |
| 1000 à 1250 | 230 | | | | |
| 1600 à 2500 | 350 | | | | |
| 3200 à 4000 | 510 | | | | |



Connection to LV switchboards

By feed and connection plates

Canalis KTA

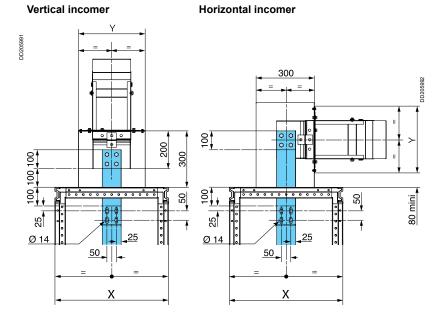


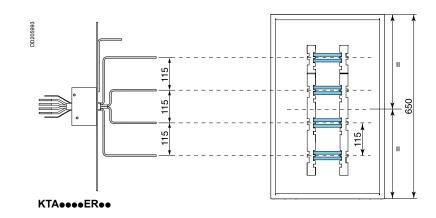
Universal feed unit (recommended distance between centres = 115 mm) Connection plates are flexible copper bars, insulated or not, and drilled at one or both ends. They are supplied with bolts, washers and torque nuts for connection to straight or elbow universal feed units.

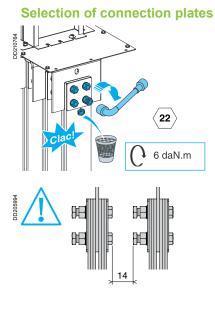
To simplify the work, it is advised to universal feed units with a distance between centres of 115 mm.

Enclosure depth depending on the rating of the trunking

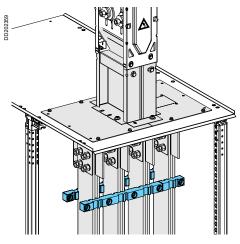
| • • | | • |
|------------------------|--|--|
| Rating of trunking (A) | Depth Y of universal feed unit plate (mm) | Minimum depth X of switchboard (mm) |
| 1000 to 1250 | 230 | 400 |
| 1600 to 2500 | 350 | 400 |
| 3200 to 4000 | 510 | 600 |
| | | |



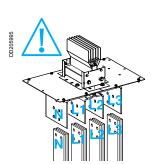


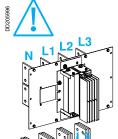


Short-circuit withstand



Phase order

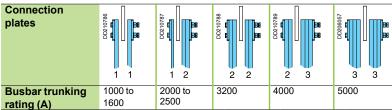




The required number of connection plates is indicated in the table below.

Busbar trunking rating (A) Bare copper connection plates per phase Number (1) Section (mm²)

| | Number | Section (mm) | |
|------|-------------|--------------|--|
| 1000 | 2 (100 x 5) | 1000 | |
| 1250 | 2 (100 x 5) | 1000 | |
| 1600 | 2 (100 x 5) | 1000 | |
| 2000 | 3 (100 x 5) | 1500 | |
| 2500 | 3 (100 x 5) | 1500 | |
| 3200 | 4 (100 x 5) | 2000 | |
| 4000 | 5 (100 x 5) | 2500 | |
| 5000 | 6 (120 x 5) | 3600 | |
| | | | |
| | | | |



(1) The number of bimetal aluminium copper connections per phase is the same as bare copper ones. Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bimetal aluminium copper.

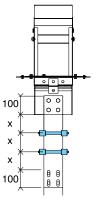
Short-circuit withstand table

| Short-time withstand current (Icw) | Maximum distance between support centres X (mm) |
|------------------------------------|---|
| ≤ 43 kA | 400 |
| 43 kA ≤ lcw ≤ 50 kA | 225 |
| 50 kA ≤ Icw ≤ 100 kA | 150 |

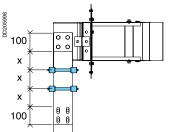
Vertical incomer

DD205997

Horizontal incomer

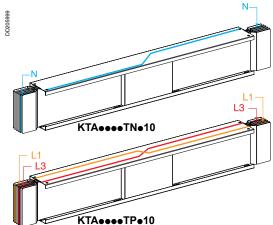






If the order of the phases in the trunking and the switchboard is different, it is advised to invert the phases in the switchboard. If that is not possible, use the phase and neutral crossover components. For more information, see the "Description" section, page 35 and

"Catalogue numbers and dimensions" section, page 58.

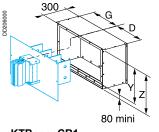


Connection to LV switchboards

By feed and connection plates

Canalis KTA

Dimensions of protective covers



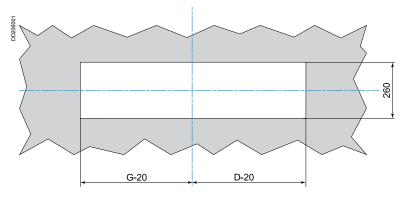
KTBeeeCR1

Horizontal incomer

Rigid horizontal cover KTB $\bullet\bullet\bullet\bullet$ CR1 for ER straight outlet feed connectors type N1 to N6

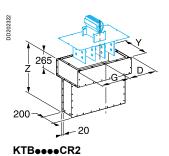
| Rating (A) | Dimensio | Dimensions (mm) | | | | | | |
|--------------|----------|-----------------|------------|------------|--|--|--|--|
| | Y | D | G | Z | | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 310 to 800 | | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 430 to 800 | | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 590 to 800 | | | | |

It is advised to cut out the switchboard roof in the workshop..



Centre lines.

Cut-out drawing

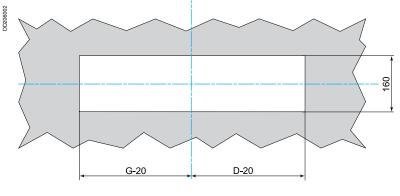


Cut-out drawing

Vertical incomer Rigid vertical cover KTBeeeeCR2 (400 to 800 mm height) for ER straight outlet feed connectors type N1 to N6

| Rating (A) | Dimensio | Dimensions (mm) | | | | | | |
|--------------|----------|-----------------|------------|------------|--|--|--|--|
| | Y | D | G | Z | | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 400 to 800 | | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 400 to 800 | | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 400 to 800 | | | | |

It is advised to cut out the switchboard roof in the workshop.

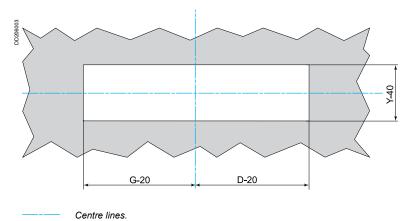


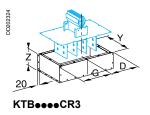
— Centre lines.

Rigid vertical cover KTBeeeeCR3 (100 to 400 mm height) for ER straight outlet feed connectors type N1 to N6

| Calibre (A) | Dimensions (mm) | | | | | | |
|--------------|-----------------|------------|------------|------------|--|--|--|
| | Y | D | G | Z | | | |
| 800 to 1250 | 230 | 220 to 475 | 220 to 475 | 400 to 800 | | | |
| 1600 to 2500 | 350 | 220 to 475 | 220 to 475 | 400 to 800 | | | |
| 3200 to 4000 | 510 | 220 to 475 | 220 to 475 | 400 to 800 | | | |

It is advised to cut out the switchboard roof in the workshop.





Cut-out drawing

Canalis KTA

Connection to cast resin transformers Selection guide

This guide will allow you to:

■ choose the connection best suited to your layout (incoming direction, flat or edgewise busbar trunking, possibility of adjusting phase order)

■ check the total height of the link with respect to the premises' ceiling height, dimension Z0 + Z2 (plan for 100 mm minimum between the upper point of the link

- and the ceiling) • optimise your link whilst respecting the following rule:
- $(Z_0 + Z_1)_{switchboard} = (Z_0 + Z_1)_{transformer}$ to avoid multiple elbows to change levels \blacksquare position the sections for the busbar trunking supports.

| Type of connection | Connection with interface to | Trihal transformers | Universal connection | |
|-----------------------|------------------------------|---------------------|--|--|
| | TS1 | TS2 | TS3 | |
| Freezel | | | | |
| | | | | |
| Z ₀ | See page 239 | See page 239 | According to manufacturer's drawing | |
| Z, minimum | 230 | 238 | 350 | |
| maximum | - | - | 350 | |
| Ζ ₂ | Z ₁ + 140 | Z ₁ + H | Z ₁ + H | |
| Selecting phase order | Fixed | Fixed | At time of order | |
| Front or rear exit | • | | | |
| Right or left exit | | | • | |
| Edgewise layout | | | | |
| Flat layout | | | | |

(1) To use standard connection plates L = 406 mm in accordance with our recommendations.

| | Trunking cross-section | | | | | | | | | |
|----------|--|--------------------|------------|-------|------|------|------|------|------------|------|
| | Rating (A) | 800 ⁽¹⁾ | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
| | Height H (mm) Width W (mm) | | | | | | | | | 244 |
| DD210867 | | | | | | | | ᠇᠋᠁ | | |
| | w | | (| ┙┉╴┙╃ | | 204 | 244 | 324 | 404 | |
| | | 140 140 | 140 140 | | | | | | <u>140</u> | |
| | (1) Important: for the 800 A rating, indicate "KTA0800". | | | | | | | | | |

| TS4 | TS5 | TS6 | TS7 | TS8 |
|--|--|---|--|--|
| | | | | |
| | | 385 + H Y ₀ 235 H 150 N N N | | |
| According to manufacturer's drawing | According to manufacturer's drawing | According to manufacturer's drawing | According to manufacturer's drawing | According to manufacturer's drawing |
| 280 | 350 | 280 | 350 | |
| 280 ⁽¹⁾ | 350 ⁽¹⁾ | 280 ⁽¹⁾ | 350 ⁽¹⁾ | • |
| 420(1) | Z ₁ +H | 420 ⁽¹⁾ | $H = 74 \text{ or } 104 \text{ or } Z_1 + H/2$ $124 \text{ mm} + 115$ $H = 164 \text{ or } 204$ $r + H/2$ $r + 175$ $H = 324 \text{ or} Z_1 + H/2$ | 500(1) |
| | | | 404 mm + 255 | |
| At time of order | At time of order | At time of order | At time of order | At time of order |
| | | | | |
| | | | | |
| | | • | | |
| - | | | • | |

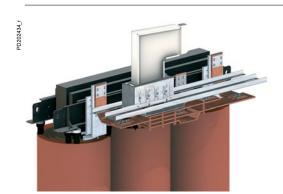
Connection to Trihal Dry type transformers

Selection guide

Canalis KTA 5000

| KTA Trihal Dry type Tra | nsfomer connection | า | | |
|-------------------------|--------------------|--|---|--------------------------------------|
| Box | | Flexible links reference and quantity | Connection plates reference and quantity | Bolts sets reference and quantity |
| | | B429825 | | |
| Catalogue number | Polarity | KTB0100YC50510B | KTB0000YP24 | KTB0000YB4 |
| KTB0001CR5 | 3P | 12 | 3 | 6 |
| | 4P | 16 | 4 | 8 |

Connection to Trihal cast resin transformers By Canalis interface



The Trihal dry-type transformers are supplied with a specific interface tested to receive the Canalis KT busbar trunking. Jointing with the switchboard is achieved using a standard run section (straight, elbow section, etc) and a joint block identical to that for connecting run elements.

The Canalis KT/dry type transformer interface, which is fitted to the transformer, is designed to accept the transformer's 25 % overload in the case of forced ventilation.

The connections are tested and qualified in normal operating conditions with respect to temperature rise ($\Delta\theta$) and short-circuits (Isc).

The busbar trunking is quickly connected to the dry-type transformer using a simple joint block with torque nuts, guaranteeing tightening torque.

Table of compatibility between Canalis KT and the connection interface for naturally ventilated (AN) dry-type transformers.

| Dry-typ | e transforme | ər | | Canalis KT | | |
|--|--------------|-----------|----------|------------|---------------|---------|
| Rating I nominal ⁽¹⁾ (kVA) (A) | | Interface | | | Cross-section | Туре |
| | | Туре | Junction | Rating (A) | | |
| 630 | 887 | 1 | H124 | 1250 | 140 x 104 | KTA1000 |
| 800 | 1126 | 2 | H164 | 1600 | 140 x 124 | KTA1250 |
| 1000 | 1408 | 3 | H204 | 2000 | 140 x 164 | KTA1600 |
| 1250 | 1760 | 4 | H244 | 2500 | 140 x 204 | KTA2000 |
| 1600 | 2253 | 5 | H324 | 3200 | 140 x 244 | KTA2500 |
| 2000 | 2816 | 6 | H404 | 4000 | 140 x 324 | KTA3200 |
| 2500 | 3520 | 7 | H404 | 5000 | 140 x 404 | KTA4000 |

(1) I is given as an indication only and is calculated with U - 410 V.

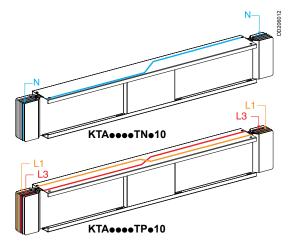
Table of compatibility between Canalis KT and the connection interface for forced ventilated (AF) dry-type transformers.

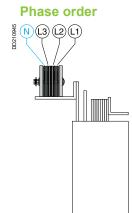
| Dry-typ | e transforme | ər | | Canalis KT | | |
|--|--------------|-----------|----------|------------|---------------|------|
| Rating I nominal ⁽¹⁾ (kVA) (A) | | Interface | | | Cross-section | Туре |
| | | Туре | Junction | Rating (A) | | |
| 630 | 1108 | 1 | H124 | 1250 | 140 x 124 | 1250 |
| 800 | 1407 | 2 | H164 | 1600 | 140 x 164 | 1600 |
| 1000 | 1760 | 3 | H204 | 2000 | 140 x 204 | 2000 |
| 1250 | 2253 | 4 | H244 | 2500 | 140 x 244 | 2500 |
| 1600 | 2816 | 5 | H324 | 3200 | 140 x 324 | 3200 |
| 2000 | 3520 | 6 | H404 | 4000 | 140 x 404 | 4000 |

(1) I is given as an indication only and is calculated with U - 410 V.

If, for reasons of busbar trunking operating conditions or performance requirements, you have to use a rating other than those defined in the above tables, consult us.

If the phase order of the busbar trunking is different to that of the switchboard's busbars. it is recommended a phase inversion is carried out in the switchboard. If this cannot be done, use the phase and neutral transposition section. For more information, see the "Description" section, page 35 and "Catalogue numbers and dimensions" section, page 58.

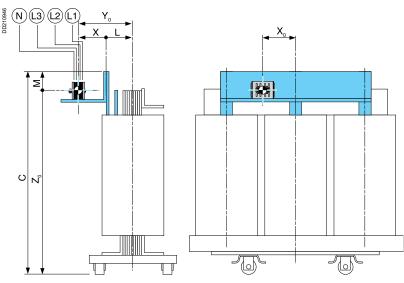




Canalis KTA

Connection to Trihal cast resin transformers

By Canalis interface



Reference point

Dimensions X, M and X_n

| Dimensions | Trans | Transformer power (kVA) | | | | | | | | |
|----------------|-------|-------------------------|------|------|------|------|-------|--|--|--|
| (mm) | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | | | |
| х | 147 | 150 | 170 | 147 | 150 | 170 | 153 | | | |
| Μ | 100 | 100 | 108 | 93 | 124 | 144 | 149 | | | |
| X ₀ | 233 | 215 | 265 | 245 | 300 | 300 | 322.5 | | | |
| Interface type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |

Dimensions Y_o and Z_o

 $Y_0 = X + L$ $Z_0 = C - M$

Dimensions C and L are different according to country standards.

French standard

FT no.235627 rev. 3 - Primary voltage: 20 kV - Insulation voltage: 24 kV -Secondary voltage: 410 V

| Dimensions | Transformer power (kVA) | | | | | | | | |
|------------|-------------------------|------|-----------|------|------|------|------|--|--|
| (mm) | 630 | 800 | 1000 1250 | | 1600 | 2000 | 2500 | | |
| С | 1614 | 1744 | 1749 | 1929 | 2089 | 2209 | 2297 | | |
| L | 220 | 225 | 240 | 240 | 240 | 257 | 275 | | |

German standard

FT no.235763 rev. 0 - Primary voltage: 20 kV - Insulation voltage: 24 kV - Secondary voltage: 400 V

| Dimensions | Transt | Transformer power (kVA) | | | | | | | | |
|------------|--------|-------------------------|------|------|------|------|------|--|--|--|
| (mm) | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | | | |
| С | 1734 | 1744 | 1749 | 2019 | 1979 | 2199 | 2279 | | | |
| L | 210 | 220 | 225 | 245 | 255 | 255 | 265 | | | |

Spanish standard

FT no.235515 rev. 3 - Primary voltage: 20 kV - Insulation voltage: 24 kV - Secondary voltage: 420 V

| Dimensions | Transf | Transformer power (kVA) | | | | | | | | | |
|------------|--------|-------------------------|------|------|------|------|--|--|--|--|--|
| (mm) | 630 | 800 | 1000 | 1250 | 1600 | 2000 | | | | | |
| С | 1614 | 1744 | 1879 | 1929 | 1979 | 2194 | | | | | |
| L | 220 | 225 | 215 | 245 | 250 | 245 | | | | | |

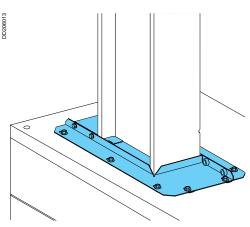
Belgian standard

FT no.235820 rev. 0 - Primary voltage: 15 kV - Insulation voltage: 17.5 kV - Secondary voltage: 400 V

| Dimensions | Transf | Transformer power (kVA) | | | | | | | | |
|------------|--------|-------------------------|------|------|------|------|------|--|--|--|
| (mm) | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | | | |
| С | 1484 | 1564 | 1694 | 1844 | 2054 | 2149 | 2164 | | | |
| L | 215 | 210 | 215 | 225 | 230 | 255 | 235 | | | |

Dimensions

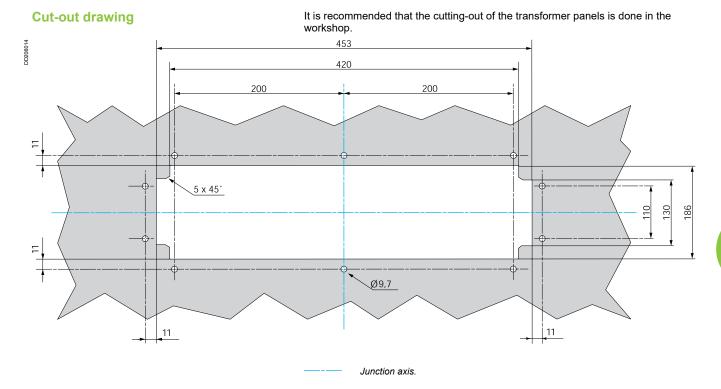
Sealing kit



The sealing kit must be ordered with the KT busbar trunking. The busbar trunking size defines the sealing kit size. For the different types of kit, see «Catalogue numbers / Dimensions».

The kit includes a drilling and cut-out template for the dry-type transformer panels.

KTB0



Connection to cast resin transformers

By universal feed and connection plates

Canalis KTA



Canalis KT can be connected to cast resin transformers using a universal feed. The connection is made using a flexible busbar (connection plates or braids) to avoid transmitting vibrations and expansions. The connection plates are made up of either insulated or non-insulated flexible copper bars, drilled at one or both ends. A nut and bolt kit allows connection to the feed.

The connections use torque-head bolts which provide both ease of installation and visual inspection of correct tightening before energising.

If the transformer is supplied with panels, provide for an additional cover to maintain the protection degree.

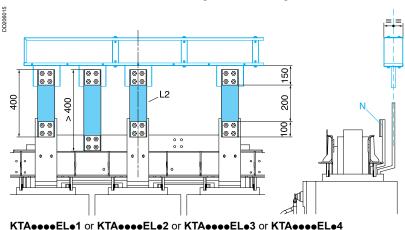
Choice of Canalis KT busbar trunking rating according to transformer power.

| Transformer | | KTA rating at nominal |
|-------------|------------------------------|--------------------------|
| Power (kVA) | I nominal ⁽¹⁾ (A) | power ⁽²⁾ (A) |
| 630 | 887 | 1000 |
| 800 | 1126 | 1250 |
| 1000 | 1408 | 1600 |
| 1250 | 1760 | 2000 |
| 1600 | 2253 | 2500 |
| 2000 | 2816 | 3200 |
| 2500 | 3520 | 4000 |

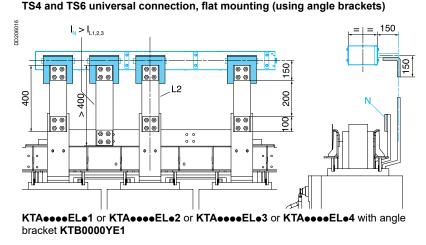
(1) I is given as an indication only and is calculated with U = 410 V and at transformer nominal setting, without forced ventilation.

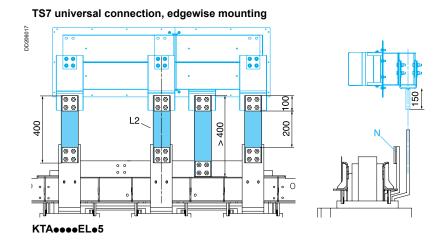
(2) The busbar trunking rating is defined for normal operating conditions.

Recommended configurations for shortcircuit withstand (connection plate L = 400 mm)

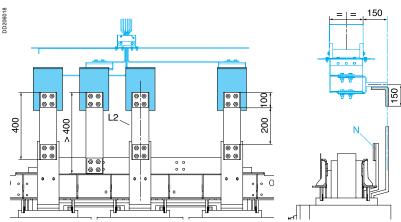


TS3 and TS5 universal connection, edgewise mounting





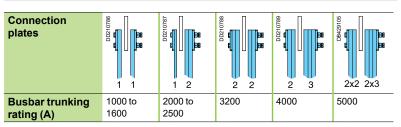
TS7 universal connection, flat mounting (using angle brackets)



KTA••••EL•5 with angle bracket KTB0000YE

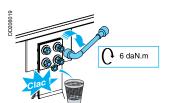
The number of connection plates is defined in the table below:

| Busbar trunking rating (A) | Bare copper connection | plates per phase |
|----------------------------|------------------------|----------------------------------|
| | Number (1) | Cross-section (mm ²) |
| 1000 | 2 (100 x 5) | 1000 |
| 1250 | 2 (100 x 5) | 1000 |
| 1600 | 2 (100 x 5) | 1000 |
| 2000 | 3 (100 x 5) | 1500 |
| 2500 | 3 (100 x 5) | 1500 |
| 3200 | 4 (100 x 5) | 2000 |
| 4000 | 5 (100 x 5) | 2500 |
| 5000 | 10 (YC5 - 100 x 5) | 5000 |



(1) The number of bimetal aluminium copper connections per phase is the same as bare copper ones.

Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bimetal aluminium copper.



Definition of connection plates

Connection to cast resin transformers

By universal feed and connection plates

Canalis KTA

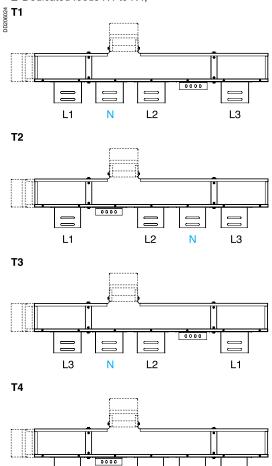
Phase order

Phase selection is made when the feed is ordered.

Phase L2 is fixed and can therefore be used as a reference for installing the feed on the transformer.

The different phase selection possibilities (T)

Dedicated feeds N1 to N4,



Important: the drawings and references above correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse T=1 with T=3 and T=2 with T=4.

L1

Ν

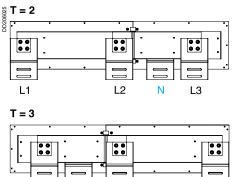
L2

Feed with flat bars N5.

L3

N

L3



L2

Important: the drawings and references above correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse L1 and L3 on the transformer side marking.

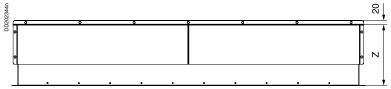
L1

Dimensions of protective covers

Vertical protection covers for dry-type transformer feeds N1, N2, N3 and N4 $\,$

| Rating (A) | Dimensior | ns (mm) | | |
|--------------|-----------|---------|---------|--|
| | Y | Z | | |
| | | Minimum | Maximum | |
| 800 to 1250 | 230 | 200 | 350 | |
| 1600 to 2500 | 350 | 200 | 350 | |
| 3200 to 4000 | 510 | 200 | 350 | |

KTB0000CR4

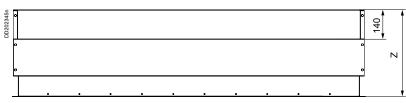


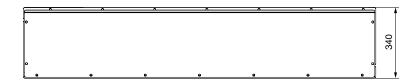


Horizontal protection covers for dry-type transformer feeds N1, N2, N3 and N4

| Rating (A) | Dimensions (mm) | | | | | | |
|--------------|-----------------|---------|---------|--|--|--|--|
| | Y | Z | | | | | |
| | | Minimum | Maximum | | | | |
| 800 to 1250 | 230 | 330 | 480 | | | | |
| 1600 to 2500 | 350 | 330 | 480 | | | | |
| 3200 to 4000 | 510 | 330 | 480 | | | | |

KTB0000CR5





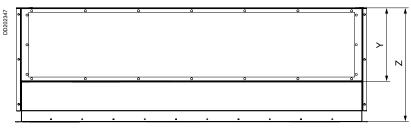
Connection to cast resin transformers

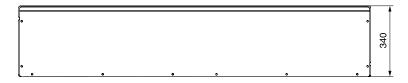
By universal feed and connection plates

Horizontal protection cover for dry-type transformer feed N5

| Rating (A) | Dimension | Dimensions (mm) | | | | | | | | |
|--------------|-----------|-----------------|---------|--|--|--|--|--|--|--|
| | Y | Z | | | | | | | | |
| | | Minimum | Maximum | | | | | | | |
| 800 to 1250 | 230 | 380 | 530 | | | | | | | |
| 1600 to 2500 | 350 | 500 | 650 | | | | | | | |
| 3200 to 4000 | 510 | 660 | 810 | | | | | | | |

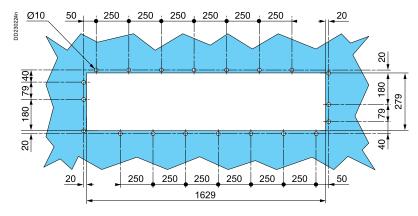
KTBeeeCR6





Cut-out drawing for dry-type transformer panels

It is recommended that the cutting-out of the transformer panels is done in the workshop.



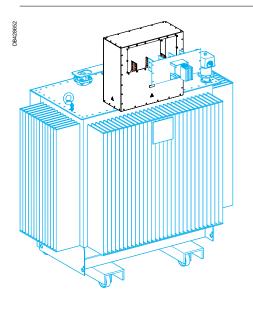
View from the top of the transformer.

Canalis KTA

Life Is On Schneider 247

Connection to Minera immersed transformers Horizontal selection guide

Canalis KTA



Canalis KT is easily connectable to Minera transformers.

A pre-designed interface including cover, flexible links and bolts is installed in place of the cable box delivered (or not) with the transformer.

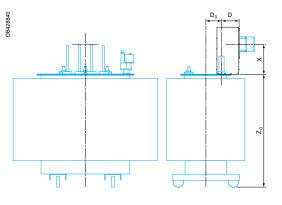
This solution that connects end feed units ER1 to ER6, make the design simple and fast.

- Position of the flange is given by the table 1.
- Products that compose the interface are given in the table 2.

The dimensions D and X are given by the Table 1.

 D_0 and Z_0 must be taken from the transformer documentation.

The interface is always centered in the middle of the transformer indifferently for the 3P or 4P versions.



KTA Minera interfaces composition - horizontal incomer

| | Protective covers | | | Flexible | links refere | ence and qu | uantity | | | | |
|---------|-------------------|--------|--------|-----------------|---|---|---|---|---|---|--|
| | Decavel | | | | | | | | | | |
| Туре | Catalogue number | D (mm) | Z (mm) | Polarity | KTB0100 | YC307A | | | | | |
| | | | | | (dimensio | ns in mm) | | | | | |
| | | | | | L = 320 A = 32 B = 60 C = 34 D = 32 E = 2 F = 2 Y = 25 | L = 320 A = 32 B = 30 C = 34 D = 32 E = 2 F = 2 Y = 25 | L = 350 A = 32 B = 31 C = 15 D = 32 E = 2 F = 2 Y = 25 | L = 350 A = 32 B = 31 C = 53 D = 32 E = 2 F = 2 Y = 25 | L = 320 A = 32 B = 40 C = 15 D = 32 E = 2 F = 2 Y = 25 | L = 320 A = 32 B = 40 C = 53 D = 32 E = 2 F = 2 Y = 25 | |
| KTA H1 | KTB0230CR71 | 150 | 320 | <u>3P</u> 4P | 6 8 | | | _ | _ | - | |
| KTA H2 | KTB0350CR71 | 150 | 320 | 3P 4P | 6 8 | | | | _ | | |
| KTA H3 | KTB0350CR72 | 150 | 350 | 3P 4P | | 6 8 | | | | | |
| KTA H4 | KTB0350CR72 | 150 | 350 | 3P 4P | | 9 12 | _ | | | | |
| KTA H5 | KTB0350CR73 | 150 | 400 | 3P 4P | | | 6 7 | 3 5 | _ | | |
| KTA H6 | KTB0510CR71 | 150 | 435 | 3P 4P | | | _ | | 6 8 | 6 8 | |
| KTA H7 | KTB0510CR72 | 180 | 470 | 3P 4P | | | _ | _ | | | |
| KTA H8 | KTB0510CR72 | 180 | 470 | 3P | | | | | | - | |
| | | | 110 | 4P | | 1 | | | | | |
| KTA H9 | KTB0510CR73 | 180 | 510 | 3P | | | | | | | |
| | | | | 4P | | | | | | | |
| KTA H10 | KTB0726CR71 | 180 | 469 | 3P | | | | | | | |
| | | | | 4P | | | | | | | |

Interface details, see page 90.

| Minera t | ransform | ər | Canalis K | Canalis KT feed unit ER1, ER2, ER3, ER4, ER5, ER6 | | | | | | | | |
|-----------------|----------|--|--|---|-------------|-------------|-------------|-------------|-------------|-------------|------------|--|
| Rating (kVA) | | Bar bushing dimensions (mm) | Between centres J, K and M (mm) | KTA1000 | KTA1250 | KTA1600 | KTA2000 | KTA2500 | KTA3200 | KTA4000 | KTA5000 | |
| 630 | 887 | $\frac{1}{2}$ $\frac{-63}{31.5}$ $\frac{31.5}{-11-12}$ | 150 | Type KTA H1 | Type KTA H1 | | | | | | | |
| 800 | 1126 | | | | Type KTA H1 | Type KTA H2 | | | | | | |
| 1000 | 1408 | | | | | Туре КТА НЗ | Туре КТА Н4 | | | | | |
| 1250 | 1760 | | 170 | | | | Type KTA H5 | Type KTA H5 | | | | |
| 1600 | 2253 | | | | | | | Type KTA H5 | Туре КТА Нб | | | |
| 2000 | 2816 | | | | | | | | Туре КТА Н7 | Туре КТА Н8 | | |
| 2500 | 3520 | | | | | | | | | Type KTA H9 | Type KTA H | |
| 3150 | 4435 | | | | | | | | | | Туре КТА Н | |

| | | | | | | Bolts sets refer | Connection plates | | |
|------------------------|---|---|---|---------|---|------------------|--|-------------------|-------------|
| | | | | | | | Devision 0 | MARANA CONTRACTOR | Partieurs |
| KTB0120Y (dimension | | | | | | KTB0000YB3 | KTB0000YB4 | KTB0000YB5 | KTB0000YP21 |
| L = 370 | L = 370 A = 50 B = 24 C = 50 D = 50 E = 2 F = 2 Y = 20 | L = 400 A = 50 B = 41 C = 20 D = 50 E = 2 F = 2 Y = 50 | L = 400 A = 50 B = 41 C = 50 D = 50 E = 2 F = 2 Y = 20 | | L = 350 A = 50 B = 24 C = 50 D = 50 E = 2 F = 2 Y = 20 | | | | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 1 | | <u>1</u> 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| | | | | | | 1 | | 1 | |
| 6 | 6 | | | | | | 2 | | |
| 8 | 8 | | | | | | 2 | | |
| 9 | 6 | | | | | | 2 | | |
| 12 | 8 | 0 | 0 | | | | 2 | | |
| | | 9 | 6 | | | | 2 | | |
| | | 12 | 8 | 0 | 0 | | 2 | | 2 |
| | | | | 9 12 | 9 12 | | 1 | | 3 4 |
| | | | | 12 | 12 | | | | 4 |

Set of bolts details, see page 105.

Canalis KTA

DB428653

Connection to Minera immersed transformers Vertical selection guide

Canalis KT is easily connectable to Minera transformers.

A pre-designed interface including cover, flexible links and bolts is installed in place of the cable box delivered (or not) with the transformer.

This solution that connects end feed units ER1 to ER6, make the design simple and fast.

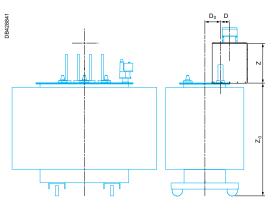
Position of the flange is given by the table 1

Products that compose the interface are given in the table 2.

The dimensions D and Z are given by the Table 1.

 D_0 and Z_0 must be taken from the transformer documentation.

The interface is always centered in the middle of the transformer indifferently for the 3P or 4P versions.



KTA Minera interfaces composition - vertical incomer

| | Protective covers | | | Flexible | links refer | ence and | quantity | | | | |
|--------|-------------------|--------|--------|----------|-------------|--|---|---|---|----------|---|
| | | | | | | | | | | | |
| Туре | Catalogue number | D (mm) | Z (mm) | Polarity | | by C307A L = 320 A = 32 B = 50 C = 53 D = 32 E = 2 F = 2 Y = 19 | L = 320 A = 32 B = 60 C = 34 D = 32 E = 2 F = 2 Y = 25 | L = 320 A = 32 B = 60 C = 15 D = 32 E = 2 F = 2 Y = 25 | L = 320 A = 32 B = 60 C = 53 D = 32 E = 2 F = 2 Y = 25 | | 0YC307A ons in mm) L = 340 A = 50 B = 20 C = 35 D = 50 E = 2 F = 2 Y = 35 |
| KTA V1 | KTB0230CR81 | 106 | 480 | 3P 4P | 3 4 | 3 4 | | | | | |
| KTA V2 | KTB0350CR81 | 106 | 580 | 3P 4P | 4 | 4 | 6 8 | | | | |
| KTA V3 | KTB0350CR81 | 106 | 580 | 3P 4P | | | 9 12 | | | | |
| KTA V4 | KTB0350CR82 | 126 | 600 | 3P 4P | | | | 6 7 | 3 5 | + | |
| KTA V5 | KTB0510CR81 | 126 | 600 | 3P 4P | | | | 6 8 | 6 8 | + | |
| KTA V6 | KTB0510CR82 | 179 | 615 | 3P 4P | | | + | - | | 12 16 | |
| KTA V7 | KTB0510CR82 | 179 | 615 | 3P 4P | | | + | + | | 15 20 | - |
| KTA V8 | KTB0510CR82 | 179 | 615 | 3P 4P | | | | + | + | | 15 20 |
| KTA V9 | KTB0726CR81 | 179 | 591 | 3P 4P | | | | | | <u> </u> | 20 21 28 |

Interface details, see page 91.

| Vertica | rtical incomer interface | | | | | | | | | | |
|-----------------|--------------------------|-----------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Minera t | ransform | er | Canalis KT feed unit ER1, ER2, ER3, ER4, ER5, ER6 | | | | | | | | |
| Rating (kVA) | | Bar bushing dimensions (mm) | Between centres J, K and M (mm) | KTA1000 | KTA1250 | KTA1600 | KTA2000 | KTA2500 | KTA3200 | КТА4000 | KTA5000 |
| 630 | 887 | 5 31.5 31.5 | 150 | Type KTA V1 | Type KTA V1 | | | | | | |
| 800 | 1126 | | | | Type KTA V1 | Type KTA V2 | | | | | |
| 1000 | 1408 | | | | | Type KTA V2 | Туре КТА V3 | | | | |
| 1250 | 1760 | | 170 | | | | Type KTA V4 | Type KTA V4 | | | |
| 1600 | 2253 | | | | | | | Type KTA V4 | Type KTA V5 | | |
| 2000 | 2816 | | | | | | | | Type KTA V6 | Type KTA V7 | |
| 2500 | 3520 | | | | | | | | | Type KTA V8 | Type KTA V9 |
| 3150 | 4435 | | | | | | | | | | Type KTA V9 |

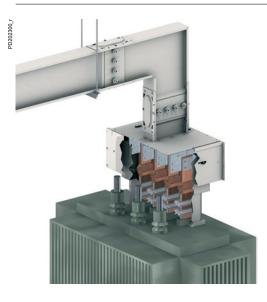
| Connection plates | s reference and qu | antity | Connection plates reference and quantity | | | | |
|---------------------------------------|--------------------|-------------|--|-------------|------------|------------|---|
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | B B | DB42860 | ALL |
| KTB0000YP11 | KTB0000YP12 | KTB0000YP13 | KTB0000YP14 | KTB0000YP22 | KTB0000YB3 | KTB0000YB4 | KTB0000YB5 |
| | | | | | | | |
| | | | | | 1 | | 1 |
| | | | | | 1 | | 1 |
| 3 | | | | | 2 | | 1 |
| 4 | | | | | 2 | | 1 |
| 3 | | | | | 2 | | 1 |
| 4 | | | | | 2 | | 1 |
| | 3 | | | | 2 | | 1 |
| | 4 | | | | 2 | | 1 |
| | | 3 | | | 2 | | 1 |
| | | 4 | | | 2 | | 1 |
| | | | 3 | | | 2 | |
| | | | 4 | | | 2 | |
| | | | 3 | | 1 | 2 | |
| | | | 4 | | 1 | 2 | |
| | | | 3 | | 1 | 2 | |
| | | | 4 | | 1 | 2 | |
| | | | | 3 | | 1 | |
| | | | | 4 | | 1 | |
| | | | | 4 | | 1 | |

Set of bolts details, see page 105

Installation guide

Connection to oil immersed transformers By feed and connection plates or braids

Canalis KTA



Connection to an oil immersed transformer is made using flexible bars (connection plates) to avoid transmitting transformer vibrations to the busbar trunking and to limit the stress on connection terminals.

Choice of busbar trunking

| Dry-type transfo | ormer | Canalis KT alu trunking | Canalis KT aluminium busbar trunking | | |
|------------------|---------------------------------|----------------------------|---|--|--|
| Rating (kVA) | l nominal ⁽¹⁾ (A) | Rating (A) | Cross-section | | |
| 500 | 704 | 800 | 140 x 74 | | |
| 630 | 887 | 1000 | 140 x 104 | | |
| 800 | 1126 | 1250 | 140 x 124 | | |
| 1000 | 1408 | 1600 | 140 x 164 | | |
| 1250 | 1760 | 2000 | 140 x 204 | | |
| 1600 | 2253 | 2500 | 140 x 244 | | |
| 2000 | 2816 | 3200 | 140 x 324 | | |
| 2500 | 3520 | 4000 | 140 x 404 | | |

(1) I is given as an indication only and is calculated with U - 410 V.

Note: *if,* for reasons of busbar trunking operating conditions or performance requirements, you have to use a rating other than those defined in the above tables, consult us.

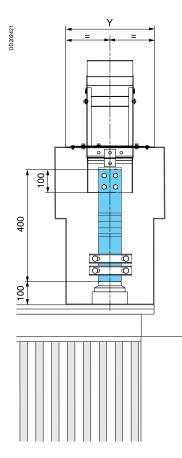
Protective cover width

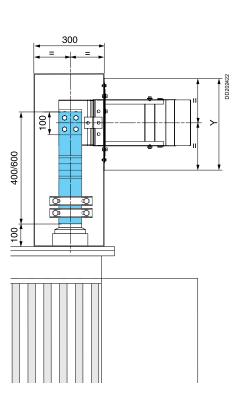
| Busbar trunking rating (A) | Dimensions "Y" of the feed | |
|----------------------------|----------------------------|--|
| 1000 to 1250 | 230 | |
| 1600 to 2500 | 350 | |
| 3000 to 4000 | 510 | |

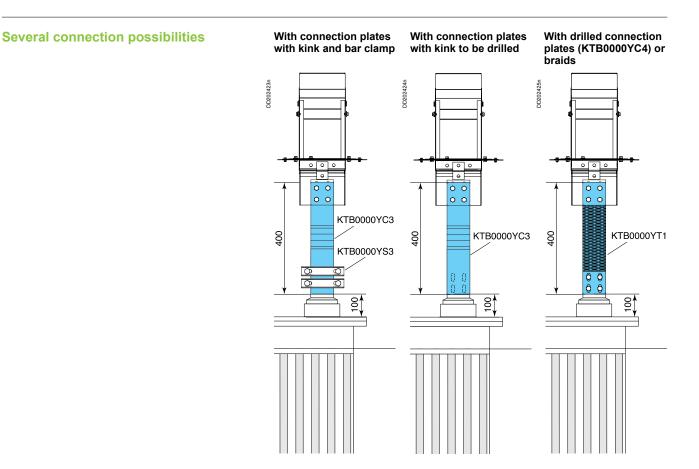
Recommended configurations for shortcircuit withstand (connection plate L = 400 mm)

Vertical incomer

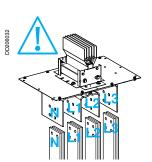
Horizontal incomer

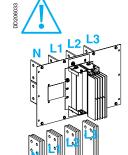




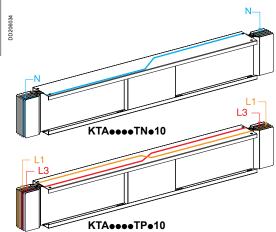


Phase order





If the phase order of the busbar trunking is different to that of the switchboard's busbars, it is recommended a phase inversion is carried out in the switchboard. If this cannot be done, use the phase and neutral transposition section. For more information, see the "Description" section, page 35 and "Catalogue numbers and dimensions" section, page 58.

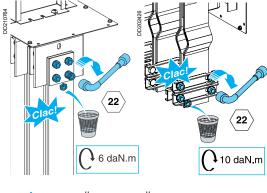


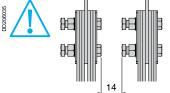
Connection to oil immersed transformers

By feed and connection plates or braids

Canalis KTA

Definition of connection plates





Definition of braids

PD206036

The number of connection plates is defined in the table below:

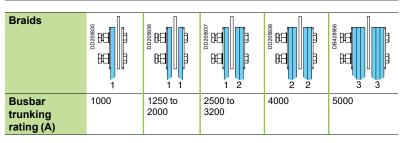
| Busbar trunking | g rating (A) | Bare coppe | er connection | plates per pl | hase |
|--------------------|-----------------|-----------------|---------------|---------------|------|
| | | Number | | Section (mr | m²) |
| 1000 | | 2 (100 x 5) | | 1000 | |
| 1250 | | 2 (100 x 5) | | 1000 | |
| 1600 | | 2 (100 x 5) | | 1000 | |
| 2000 | | 3 (100 x 5) | | 1500 | |
| 2500 | | 3 (100 x 5) | | 1500 | |
| 3200 | | 4 (100 x 5) | | 2000 | |
| 4000 | | 5 (100 x 5) | | 2500 | |
| 5000 | | 8 (120 x 5) | | 4800 | |
| | | | | | |
| Connection | g [] | ⊾ [| " [] | " | × |
| plates | | | | | |
| | 1 1 | 12 | 22 | 2 3 | 4 4 |
| Busbar trunking | 1000 to 1600 | 2000 to 2500 | 3200 | 4000 | 5000 |

The number of braids is defined in the table below:

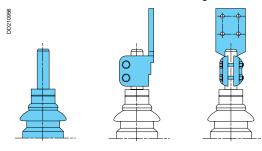
| Busbar trunking | rating (A | Braide | nor nhaso |
|-----------------|------------|----------|------------|
| Dusbar trunking | a rauny (A |) Dialus | per priase |

rating (A)

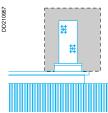
| | \mathbf{J} | |
|------|--------------|----------------------------------|
| | Number | Cross-section (mm ²) |
| 1000 | 1 | 600 |
| 1250 | 2 | 1200 |
| 1600 | 2 | 1200 |
| 2000 | 2 | 1200 |
| 2500 | 3 | 1800 |
| 3200 | 3 | 1800 |
| 4000 | 4 | 2400 |
| 5000 | 6 | 3000 |
| | | |



Connection terminals of the type defined below must be used. These are available in the transformer manufacturers' catalogues.



The transformers can be supplied with or without a low voltage cover. This cover is not used in our solutions.



Cover

Connection to porcelain bushings

Recommendations

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Reception, handling and storage

Canalis KTA

This document contains practical information, lays out the general recommendations (as a complement to the installation regulations) and specifies the basic instructions that must be respected when handling and storing Schneider Electric Canalis busbar trunking system.

The purchaser's engineering, installation and operating staff must become acquainted with this document and become familiar with the appearance and characteristics of each of the Canalis busbar trunking system's components. Appropriate planning and coordination between the different job functions is indispensable for ensuring an efficient installation of the equipment.

Each Canalis busbar trunking system is carefully inspected and packaged at the assembly plant.

The entire system is checked both structurally and electrically. At the end of inspection, the busbar trunking system is prepared for shipping. Each section is packed to guarantee easy handling before its installation. The catalogue number is written on each shipping unit.

Warning

RISK OF ELECTRIC SHOCK, BURNS OR EXPLOSION

■ Protect the equipment against all contact with water, salt, concrete and other corrosive surroundings both before and during installation.

Outdoor equipment is not resistant to bad weather until after it has been fully and correctly installed.

Do not sit or walk on the equipment.

If these instructions are not respected, the equipment may deteriorate leading to a risk of serious or mortal injury.

Reception

Upon reception, check the information on the shipping note corresponds to the equipment received to ensure all of the order has been received and shipped. Complaints concerning missing components or other errors must be sent in writing to Schneider Electric SAS within 30 days from the date the shipping item was received. If no complaint has been received within 30 days from the date the shipping item was received, Schneider Electric SAS will no longer be responsible for repairs or replacements that may be required.

Upon reception, check the various units of the busbar trunking system immediately to identify any damage that has occurred during transport. If there is observed or suspected damage, file a claim immediately with the carrier and inform the nearest Schneider Electric office.

Handling

Handle Canalis products with the greatest of care to avoid damaging the internal components of the system and to avoid changing the external appearance of the various parts, as well as the bar ends (connection terminals).

The busbar trunking must be constantly supported by independent means, in such a way its weight is not resting on the top of the transformers or distribution switchboards.

The distance between these support means must not exceed 3 metres.

Avoid exposing the busbar trunking to twisting, embossing or impacts, and all other actions likely to causing damage.

Ensure the handling equipment available at the site of installation is suitable for handling busbar trunking. In particular, check the lifting capacity of the crane or the other lifting equipment to be used. Take great care when unpacking the equipment:

■ use a nail-head puller when unpacking wooden crates

■ if hauling the busbar trunking with a crane, use Nylon slings to spread the weight of the unit being lifted

if using cables, insert a spacing means to avoid damaging the busbar trunking
 if using a forklift truck, position the busbar trunking on the forks in such a way the weight is evenly distributed.

1 - Cut the strapping holding the packaging case using suitable cutting tools.

2 - Use suitable tools to remove the strengthened steel packaging at each end of the busbar trunking.

Take care not to damage the steel box so as not to damage the busbar trunking. Avoid the use of objects with sharp edges when lifting the busbar trunking.

3 - Dispose of all used packaging in an appropriate way.

Never drag the busbar trunking along the floor. Do not use the end bars to lift sections of the busbar trunking.

Protection against humidity during storage

If the busbar trunking is not installed and commissioned immediately, leave it in the original Canalis packaging and store it in a clean and dry place at a uniform temperature.

The busbar trunking must not be stored outside. However, if outside storage is necessary, cover the busbar trunking in such a way as to protect it from bad weather and to avoid contact with the elements.

Temporary electrical heating must be provided for underneath the covering means to prevent condensation.

The supplied heat must be of suitable temperature and uniformly distributed underneath the covering means.

Outdoor busbar trunking is not resistant to bad weather until after it has been fully and correctly installed.

During installation, take particular care to protect rising mains from humidity arising from unfinished roofs, walls and other similar elements.

Deserts can provide at least 2 specific situations for KT storage from standard other locations:

- sand pollution.

- significant thermal variations nights/days that can create condensation due to the colder busduct KT 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.

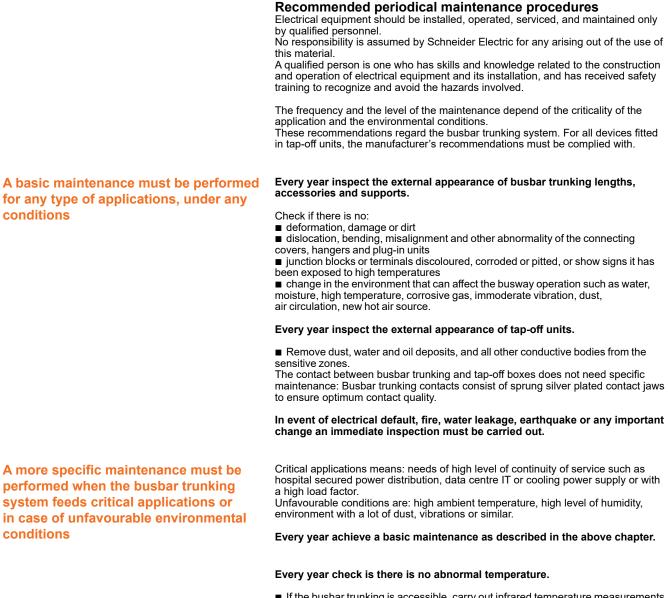
As it's important to keep all electrical contacts clean from any foreign body and abrasion, our products must be protected from sand during storage period before and during installation.

The optionnal sea-packaging with wood boxes is including a waterproof system, it allows to keep the products protected against the 2 above risks.

Maintenance

Run sections

Canalis KTA



 If the busbar trunking is accessible, carry out infrared temperature measurements on all the electrical connections (junction blocks, terminal connections, tap-off units).
 If the busbar trunking is not accessible, install a thermal monitoring system which will communicate temperatures to a remote supervision.

These operations are relevant only if the busbar trunking has reached a stabilized temperature and if the measure of current has been done.

Notice

A periodic thermal monitoring allows tracking and detecting abnormal drifts. In case of abnormal results, check with a torque wrench, all the connections.

| Туре | Torque (N.m) |
|----------------------|--------------|
| Junction block bolts | 60 ± 10% |

If these values decrease significantly over time, consult Schneider Electric for a deeper analysis.

If needed concerned material must be replaced with new factory mounted products. Consult your local Schneider Electric office for all replacements.

Before re-energising the busbar trunking, carry out an insulation resistance test in compliance with the instructions given in the "Testing and commissioning procedure" section.

After having performed all the necessary inspections and repairs mentioned above, it may be desirable to carry out infrared temperature measurements on all the electrical connections.



Recycling

Recycling busbar trunking

DD205673_r

Example: 1 kg of PVC generates 1 kg of waste.

Canalis busbar trunking can be reused. Canalis busbar trunking is designed for a long service life and can easily be dismantled, cleaned and reused.

All packaging materials can be recycled (cardboard or recyclable polyethylene film).

All Canalis products are designed for safe end-of-life recycling. PVC, on the other hand, requires neutralisation of the hydrochloric acid produced using lime and generates dioxins that are extremely toxic.

Canalis helps conserve natural resources

The depletion of raw materials (copper, plastics, etc.) is one of our ongoing concerns.

For this reason, we have optimised the used of all materials used to make our busbar trunking.

Reduction of dangerous or polluting materials. We design our products to meet future European directives.

 Reduction in the weight of insulating materials.
 Reduction in the use of plastics for improved fire performance: less energy released during combustion, thereby limiting propagation and facilitating extinction (lower calorific value).

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| KH036CB311571CONNECTING LINKS SHIELD145KH038CB86NSCONNECTING LINKS TAP OFF BOX SB NS1000146KH040SD85KH BOX PLUG IN 3L PEN SECT MULLER 400 T2142KH040SD9502KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2143KH040SE341KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH056CB3CONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N2145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N2145KH063SD14KH BOX PLUG IN 3L N PE FUS 630 T3140KH063SD541KH BOX PLUG IN 3L N PE NSX630139KH063SD551KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142< |
| KH038CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000142KH040SD85KH BOX PLUG IN 3L PEN SECT MULLER 400 T2142KH040SD9502KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2143KH040SE341KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2144KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH0538CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB141KH FIXED BOX 3L PE FUS 630 T3 N2145KH063SD14KH BOX PLUG IN 3L PEN FUSES 630 T3140KH063SD541KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142 |
| NS1000KH040SD85KH BOX PLUG IN 3L PEN SECT MULLER 400 T2142KH040SD9502KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2143KH040SE341KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2144KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SE144KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH056CBCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH0538EB311KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB141KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SD14KH BOX PLUG IN 3L PEN FUSES 630 T3140KH063SD541KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142KH063SD552 <td< th=""></td<> |
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| KH040SD9502KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2 143KH040SE341KH BOX PLUG IN 3L N PE INTER FUSES 400 T2 144KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2 144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE 144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE 144KH040ZA07CONNECTING BOX FOR KH040SD9502 143KH046CBCONNECTING LINKS SHIELD 145KH046CB311571CONNECTING LINKS SHIELD 145KH046CB311571CONNECTING LINKS SHIELD 145KH056CBCONNECTING LINKS SHIELD 145KH056CBCONNECTING LINKS SHIELD 145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A 145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB 146NS1000NS1000KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1 145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1 145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N1 145KH063SB142KH FIXED BOX 3L N PE FUS 630 T3 N1 145KH063SD14KH BOX PLUG IN 3L N PE FUS 630 T3 140KH063SD541KH BOX PLUG IN 3L N PE NSX630 139KH063SD552KH BOX PLUG IN 3L PEN NSX630 139KH063SD552KH BOX PLUG IN 3L PEN NSX630 139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 142 |
| KH040SE341KH BOX PLUG IN 3L N PE INTER FUSES 400 T2144KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS SHIELD145KH056CBCONNECTING LINKS SHIELD145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SB142KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SD14KH BOX PLUG IN 3L N PE FUS 630 T3140KH063SD541KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142 |
| KH040SE351KH BOX PLUG IN 3L PEN INTER FUSES 400 T2144KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS SHIELD145KH056CBCONNECTING LINKS SHIELD145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB NS1000146KH058CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB144KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SD14KH BOX PLUG IN 3L N PE FUS 630 T3140KH063SD541KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD554KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD555KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142 |
| KH040ZA05CABLE BOX 1 HOLE FOR KH040SE144KH040ZA06CABLE BOX 2 HOLES FOR KH040SE144KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS SHIELD145KH056CBCONNECTING LINKS SHIELD145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SD14KH BOX PLUG IN 3L N PE FUSES 630 T3140KH063SD541KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142 |
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| KH040ZA07CONNECTING BOX FOR KH040SD9502143KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS SHIELD145KH056CBCONNECTING LINKS SHIELD145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000State State S |
| KH046CBCONNECTING LINKS SHIELD145KH046CB311571CONNECTING LINKS SHIELD145KH048CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000145KH056CBCONNECTING LINKS SHIELD145KH056CB311571CANAL ELEC EQUIP ECLIS COF 1000A145KH058CB86NSCONNECTING LINKS TAP OFF BOX SB146NS1000NS1000NS1000KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N2145KH063SB134KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SD14KH BOX PLUG IN 3L N PE FUS 630 T3 140140KH063SD15KH BOX PLUG IN 3L N PE NSX630139KH063SD551KH BOX PLUG IN 3L N PE NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD554KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3142 |
| KH046CB311571 CONNECTING LINKS SHIELD 145 KH048CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH056CB CONNECTING LINKS SHIELD 145 KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 NS1000 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N1 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 140 KH063SD14 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD551 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 </th |
| KH048CB86NS CONNECTING LINKS TAP OFF BOX SB 146 KH056CB CONNECTING LINKS SHIELD 145 KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 140 KH063SD14 KH BOX PLUG IN 3L PEN FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD551 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 |
| NS1000 KH056CB CONNECTING LINKS SHIELD 145 KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 140 KH063SD15 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD551 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 142 |
| KH056CB CONNECTING LINKS SHIELD 145 KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 N2 145 KH063SD515 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD551 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 142 |
| KH056CB311571 CANAL ELEC EQUIP ECLIS COF 1000A 145 KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N1 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NUSES 630 T3 140 KH063SD542 KH BOX PLUG IN 3L N PE NUSES 630 T3 140 KH063SD554 KH BOX PLUG IN 3L N PE NUSK630 139 KH063SD552 KH BOX PLUG IN 3L PEN NUSK630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 142 |
| KH058CB86NS CONNECTING LINKS TAP OFF BOX SB 146 NS1000 NS1000 145 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD15 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NUSES 630 T3 140 KH063SD542 KH BOX PLUG IN 3L N PE NUSK630 139 KH063SD551 KH BOX PLUG IN 3L PEN NUSK630 139 KH063SD552 KH BOX PLUG IN 3L PEN NUSK630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 |
| NS1000 KH063SB131 KH FIXED BOX 3L PE FUS 630 T3 N1 145 KH063SB132 KH FIXED BOX 3L PE FUS 630 T3 N2 145 KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD54 KH BOX PLUG IN 3L PEN FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 |
| KH063SB131KH FIXED BOX 3L PE FUS 630 T3 N1145KH063SB132KH FIXED BOX 3L PE FUS 630 T3 N2145KH063SB141KH FIXED BOX 3L N PE FUS 630 T3 N1145KH063SB142KH FIXED BOX 3L N PE FUS 630 T3 N2145KH063SD14KH BOX PLUG IN 3L N PE FUSES 630 T3140KH063SD54KH BOX PLUG IN 3L N PE NSX630139KH063SD542KH BOX PLUG IN 3L N PE NSX630139KH063SD551KH BOX PLUG IN 3L PEN NSX630139KH063SD552KH BOX PLUG IN 3L PEN NSX630139KH063SD554KH BOX PLUG IN 3L PEN SECT MULLER 630 T3142KH063SD552KH BOX PLUG IN 3L PEN SECT MULLER 630 T3143 |
| KH063SB141 KH FIXED BOX 3L N PE FUS 630 T3 N1 145 KH063SB142 KH FIXED BOX 3L N PE FUS 630 T3 N2 145 KH063SD14 KH BOX PLUG IN 3L N PE FUS 630 T3 N2 140 KH063SD15 KH BOX PLUG IN 3L N PE FUSES 630 T3 140 KH063SD541 KH BOX PLUG IN 3L PEN FUSES 630 T3 140 KH063SD542 KH BOX PLUG IN 3L N PE NSX630 139 KH063SD551 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD554 KH BOX PLUG IN 3L PEN NSX630 139 KH063SD552 KH BOX PLUG IN 3L PEN SECT MULLER 630 T3 142 KH063SD552 KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3 143 |
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| KTA1600FC7B KT 5X1600AL EDGEWISE ELBOW 74 KTA1600FC7B KT 3X1600AL EDGEWISE ELBOW 63 KTA1600FC7E KT 5X1600AL EDGEWISE ELBOW 74 KTA1600L2B KT3X1600AL EDGEWISE ELBOW 63 KTA1600FC7E KT 5X1600AL FLAT ELBOW NI FIRE 73 KTA1600L2B KT3X1600AL FLAT ELBOW NI FIRE 73 KTA1600L2T KT31600AL FLAT ELBOW NI 62 KTA1600FP402KT31600AL FLAT ELBOW NI FIRE73KT31600AL FLAT | KTA1600FC5E | KT 5X1600AL EDGEWISE ELBOW | 74 | KTA1600LC3A | KT 3X1600AL EDGEWISE ELBOW | 63 |
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| KTA1600FP4D2 KT 4X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3B1 KT 3X1600AL FLAT ELBOW N2 62 KTA1600FP4E1 KT 4X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3C1 KT31600AL FLAT ELBOW N2 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3C1 KT31500AL FLAT ELBOW N1 63 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3D1 KT31600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3D1 KT31600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3E2 KT31600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3E2 KT31600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP421 KT41600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP421 KT41600AL FLAT ELBOW N1 62 KTA1600FP7A2 KT5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP421 KT4X1600AL FLAT ELBOW N2 | | | | | | |
| KTA1600FP4E1 KT AX1600AL FLAT ELBOW N1 FIRE 73 KTA1600P3B2 KT 3X1600AL FLAT ELBOW N2 62 KTA1600F4E2 KT 4X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3C1 KT 3X1600AL FLAT ELBOW N2 63 KTA1600F9542 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3C1 KT 3X1600AL FLAT ELBOW N2 63 KTA1600F9542 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3D1 KT 3X1600AL FLAT ELBOW N2 62 KTA1600F9542 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3D2 KT 3X1600AL FLAT ELBOW N2 62 KTA1600F951 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP341 KT 4X1600AL FLAT ELBOW N1 62 KTA1600F952 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP441 KT 4X1600AL FLAT ELBOW N1 62 KTA1600F952 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KT 4X1600ALP441 KT 4X1600AL FLAT ELBOW N2 62 KTA1600F9724 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KT 4X1600ALP441 KT 4X1600ALFLAT ELBOW N2 62 KT 41600F9714 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KT 4X1600ALP441 K | KTA1600FP4D1 | KT 4X1600AL FLAT ELBOW N1 FIRE | 73 | KTA1600LP3A2 | KT 3X1600AL FLAT ELBOW N2 | 62 |
| KTA1600FP422 KT AX1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3C1 KT 3X1600AL FLAT ELBOW N1 63 KTA1600FP5A1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3C2 KT 3X1600AL FLAT ELBOW N2 63 KTA1600FP5B1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3C2 KT 3X1600AL FLAT ELBOW N1 62 KTA1600FP5B1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3E1 KT 3X1600AL FLAT ELBOW N2 62 KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3E1 KT 3X1600AL FLAT ELBOW N1 62 KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3E1 KT 3X1600AL FLAT ELBOW N1 62 KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4A2 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP31 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP714 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP42 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP728 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP42 KT 4X160 | | | | | | |
| KTA1600FP5A1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3C2 KT 3X1600AL FLAT ELBOW N2 63 KTA1600FP5A2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3D1 KT 3X1600AL FLAT ELBOW N2 62 KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3D2 KT 3X1600AL FLAT ELBOW N2 62 KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3E2 KT 3X1600AL FLAT ELBOW N1 62 KTA1600FP5D1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LPA1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LPA1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4B1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7B1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600F77D1 KT 5X1600 | | | | | | |
| KTA1600FP5A2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP3D1KT 3X1600AL FLAT ELBOW N162KTA1600FP5B1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP3D2KT 3X1600AL FLAT ELBOW N262KTA1600FP5D1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP3D1KT 3X1600AL FLAT ELBOW N262KTA1600FP5D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A1KT 4X1600AL FLAT ELBOW N262KTA1600FP5D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A2KT 4X1600AL FLAT ELBOW N262KTA1600FP5E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A2KT 4X1600AL FLAT ELBOW N162KTA1600FP5E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A2KT 4X1600AL FLAT ELBOW N162KTA1600FP5E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4B2KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N163KTA1600FP7B2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D1KT 4X1600AL FLAT ELBOW N162KTA1600FP7B1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4D1KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4D1KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D1KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4E1KT 4X1600AL FLAT ELBOW N162 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | |
| KTA1600FP5B1KT 5X1600AL FLAT ELBOW NI FIRE73KTA1600LP3D2KT 3X1600AL FLAT ELBOW N262KTA1600FP5D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP3E1KT 3X1600AL FLAT ELBOW N162KTA1600FP5D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP3E2KT 3X1600AL FLAT ELBOW N262KTA1600FP5D1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A1KT 4X1600AL FLAT ELBOW N262KTA1600FP5D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4A2KT 4X1600AL FLAT ELBOW N162KTA1600FP7A1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4B2KT 4X1600AL FLAT ELBOW N162KTA1600FP7A2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N163KTA1600FP7B1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N163KTA1600FP7B2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP5A2KT 5X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP5A2KT 5X1600AL FLAT ELBOW N162 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | |
| KTA1600FP5B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP3E1 KT 3X1600AL FLAT ELBOW N1 62 KTA1600FP5D2 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP3E2 KT 3X1600AL FLAT ELBOW N2 62 KTA1600FP5D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4A1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4A2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7E1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N1 63 KTA1600FP7E1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7E1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP5A1 KT 4X | | | | | | |
| KTA1600FP5D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4A1 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP5E1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP4A2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7A1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N1 63 KTA1600FP7B1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C1 KT 4X1600AL FLAT ELBOW N2 63 KTA1600FP7B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C2 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4D1 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4D2 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4D2 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FF720 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP5A1 KT 5X1600AL FLAT ELBOW N2 62 KTA1600F7320 KT 3X16 | KTA1600FP5B2 | | | KTA1600LP3E1 | | |
| KTA1600FP5E1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4A2KT 4X1600AL FLAT ELBOW N262KTA1600FP5E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4B1KT 4X1600AL FLAT ELBOW N262KTA1600FP7A2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4B1KT 4X1600AL FLAT ELBOW N262KTA1600FP7B2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N163KTA1600FP7B2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N162KTA1600FP7B2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4D2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4D2KT 4X1600AL FLAT ELBOW N262KTA1600FP7E1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4E1KT 4X1600AL FLAT ELBOW N262KTA1600FP7E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4E1KT 4X1600AL FLAT ELBOW N262KTA1600FP7E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP5A2KT 5X1600AL FLAT ELBOW N262KTA1600F7320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5A2KT 5X1600AL FLAT ELBOW N262KTA1600F7320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162KTA1600F7330KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162 <th>KTA1600FP5D1</th> <th>KT 5X1600AL FLAT ELBOW N1 FIRE</th> <th>73</th> <th>KTA1600LP3E2</th> <th>KT 3X1600AL FLAT ELBOW N2</th> <th>62</th> | KTA1600FP5D1 | KT 5X1600AL FLAT ELBOW N1 FIRE | 73 | KTA1600LP3E2 | KT 3X1600AL FLAT ELBOW N2 | 62 |
| KTA1600FP5E2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4B1 KT 4X1600AL FLAT ELBOW N1 62 KTA1600FP7A1 KT 5X1600AL FLAT ELBOW N1 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7A2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4B2 KT 4X1600AL FLAT ELBOW N1 63 KTA1600FP7B1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7B2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4C2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7D1 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4D2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4E2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600FP7D2 KT 5X1600AL FLAT ELBOW N2 FIRE 73 KTA1600LP4E2 KT 4X1600AL FLAT ELBOW N2 62 KTA1600F732 KT 3X1600AL FEAD ELBOG TH FIRE 72 KTA1600LP5A2 KT 5X1600AL FLAT ELBOW N2 62 KTA1600F732 KT 3X1600AL FEEDER LENGTH FIRE 72 KTA1600LP5B2 KT 5X16 | KTA1600FP5D2 | | 73 | KTA1600LP4A1 | KT 4X1600AL FLAT ELBOW N1 | |
| KTA1600FP7A1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4B2KT 4X1600AL FLAT ELBOW N262KTA1600FP7A2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N163KTA1600FP7B1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N263KTA1600FP7B2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N162KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N262KTA1600FP7D2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4E2KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4E2KT 4X1600AL FLAT ELBOW N262KTA1600FP7E2KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4E2KT 4X1600AL FLAT ELBOW N162KTA1600F730KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5A2KT 5X1600AL FLAT ELBOW N162KTA1600F7320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162KTA1600F7335KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162KTA1600F7335KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162KTA1600F7340KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5C2KT 5X1600AL FLAT ELBOW N162 | | | | | | |
| KTA1600FP722KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4C1KT 4X1600AL FLAT ELBOW N163KTA1600FP7B1KT 5X1600AL FLAT ELBOW N1 FIRE73KTA1600LP4C2KT 4X1600AL FLAT ELBOW N263KTA1600FP7B2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D1KT 4X1600AL FLAT ELBOW N162KTA1600FP7D1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D2KT 4X1600AL FLAT ELBOW N262KTA1600FP7D2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP4D2KT 4X1600AL FLAT ELBOW N162KTA1600FP7E1KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP42KT 4X1600AL FLAT ELBOW N262KTA1600FP7E2KT 5X1600AL FLAT ELBOW N2 FIRE73KTA1600LP5A1KT 5X1600AL FLAT ELBOW N162KTA1600F7320KT 3X1600AL FEDER LENGTH FIRE72KTA1600LP5A2KT 5X1600AL FLAT ELBOW N162KTA1600FT320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5B1KT 5X1600AL FLAT ELBOW N162KTA1600FT320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5D1KT 5X1600AL FLAT ELBOW N162KTA1600FT320KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5D1KT 5X1600AL FLAT ELBOW N162KTA1600FT335KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5D2KT 5X1600AL FLAT ELBOW N162KTA1600FT340KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5D2KT 5X1600AL FLAT ELBOW N162KTA1600FT340KT 3X1600AL FEEDER LENGTH FIRE72KTA1600LP5D2KT 5X1600AL FLAT ELBOW N162< | | | | | | |
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