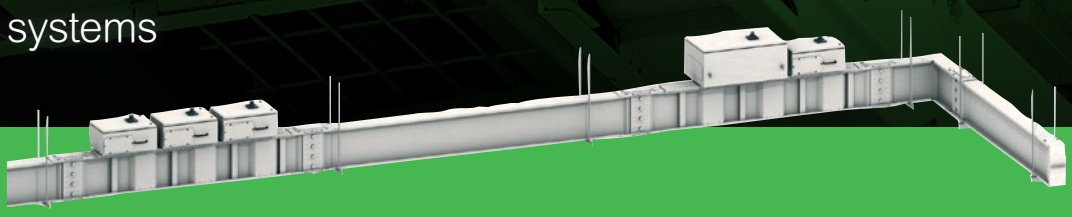
Line Series

Canalis KTC 1000 - 6300 A

Catalogue 2026

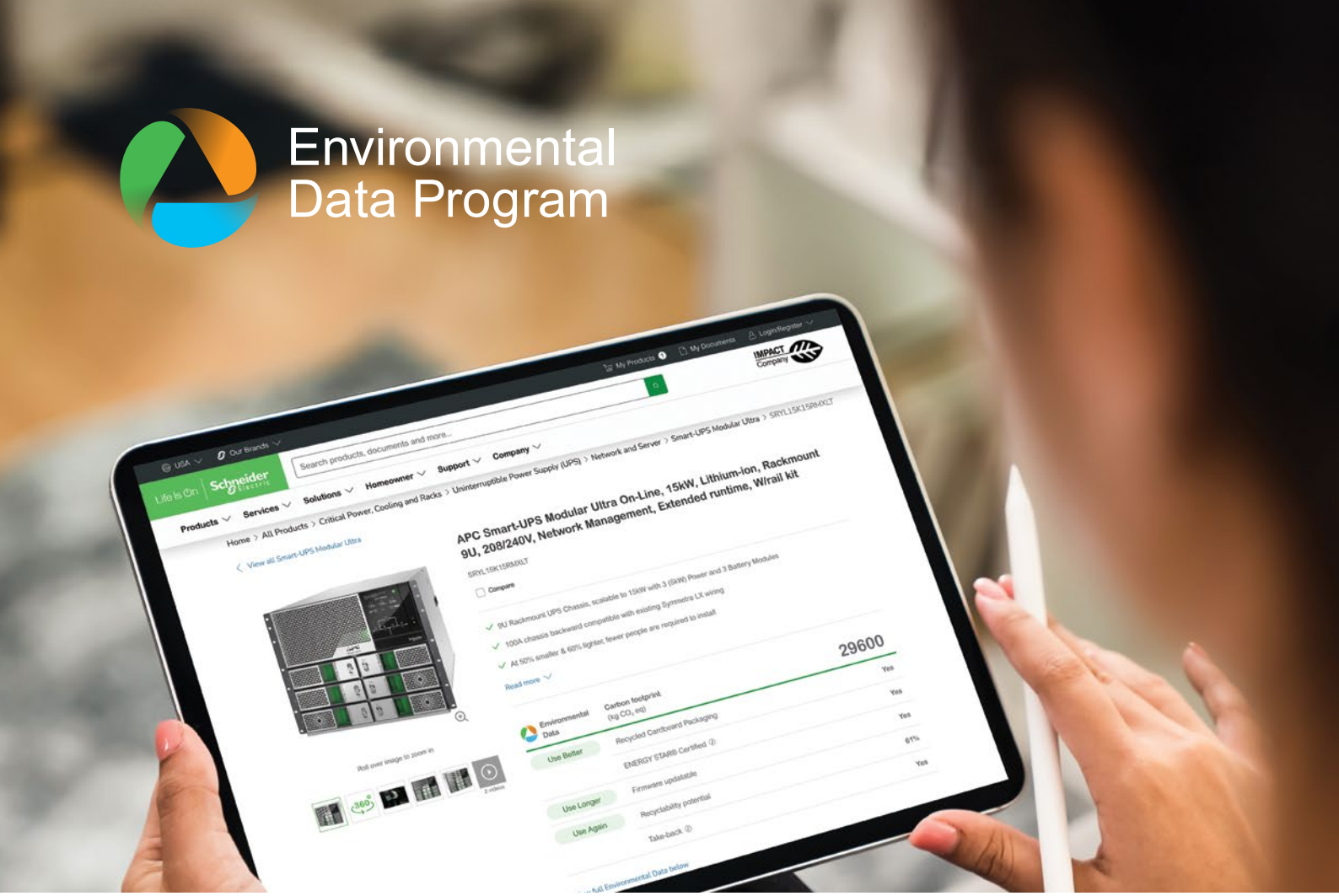
Busbar trunking systems
Copper



se.com

Schneider Electric

Environmental Data Program

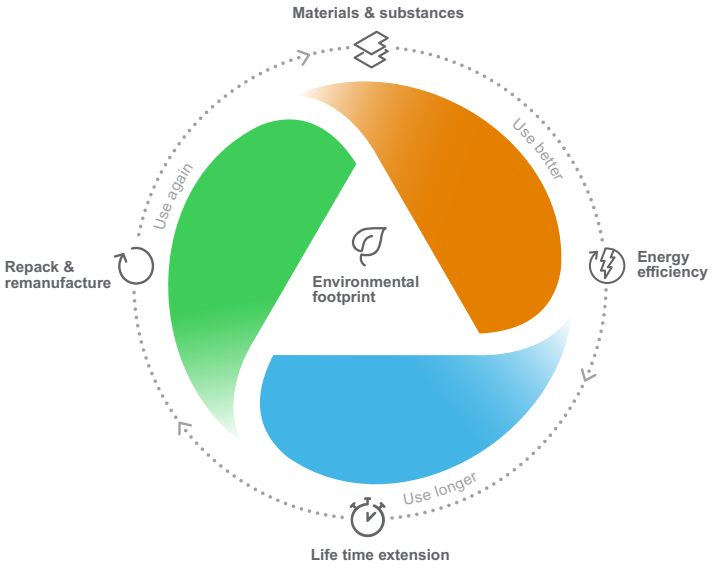


Next-level transparency for better-informed product choices

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

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

Five data categories across the product lifecycle



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

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

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

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

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

Learn more about the Environmental Data Program

General Contents
Canalis KTC

Introduction A

Presentation and description B

Catalogue numbers and dimensions C

Design guide D

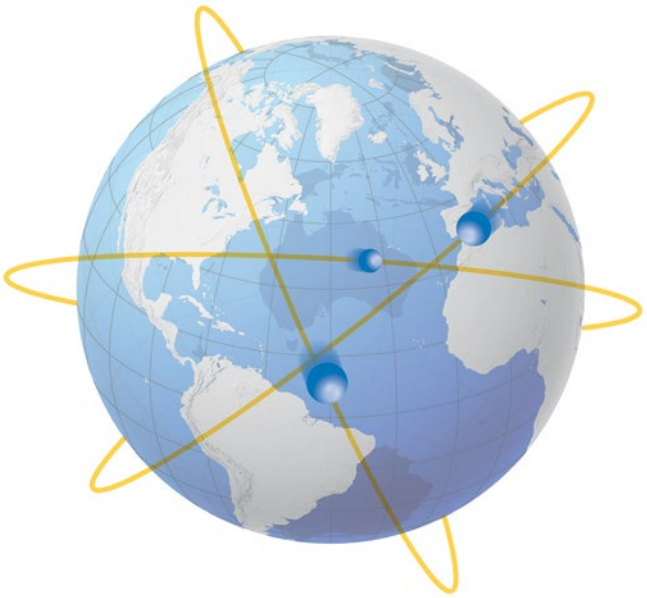
Installation guide E

Recommendations F

Index G

Canalis the ideal offer to match with your needs

P58950-90



+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.

PD202088-104_r



Canalis KT provides you …

… more flexibility.

… ease of connection with the "plug and play" transformer and switchboard connections.

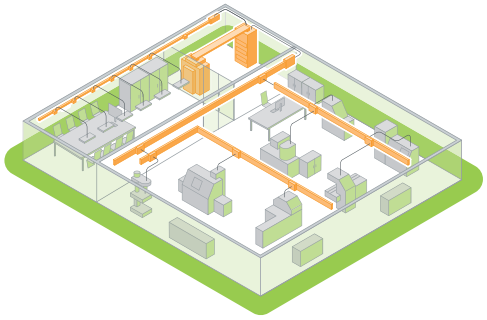
… more assistance with our teams ready to assist you throughout your project.

Introduction

A Canalis installation for every distribution system

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

DB410747.eps



Decentralized distribution

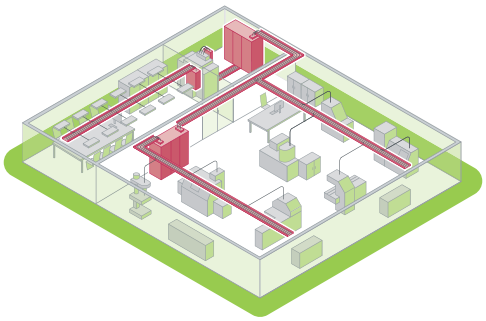
For manufacturing industries

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

Decentralized distribution lets you

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

DD406503.eps



Centralized distribution

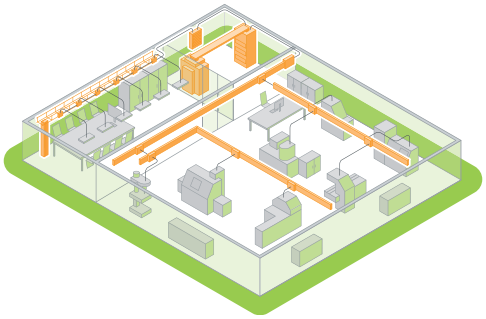
For all continuous processes

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

Centralized distribution offers

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

DB410746.eps



Combined distribution

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

Commercial and service buildings

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

Infrastructures

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

Industrial facilities

- Pharmaceuticals
- Food processing, etc.

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.

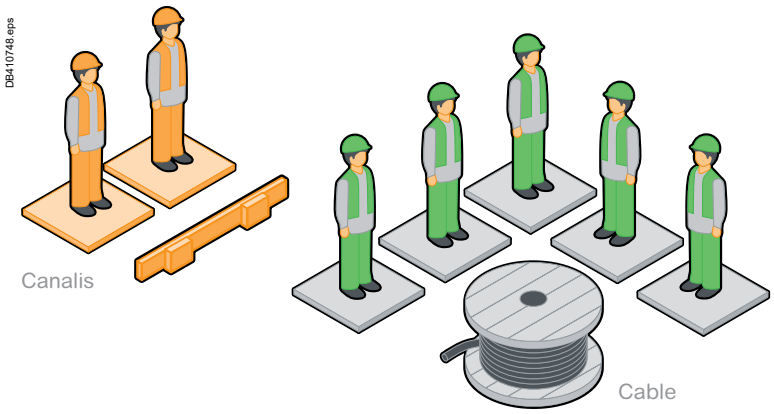
Product characteristics are verified by calculations and tests carried out in our laboratories.

Exclusive features of the Schneider Electric system

A competitive installation

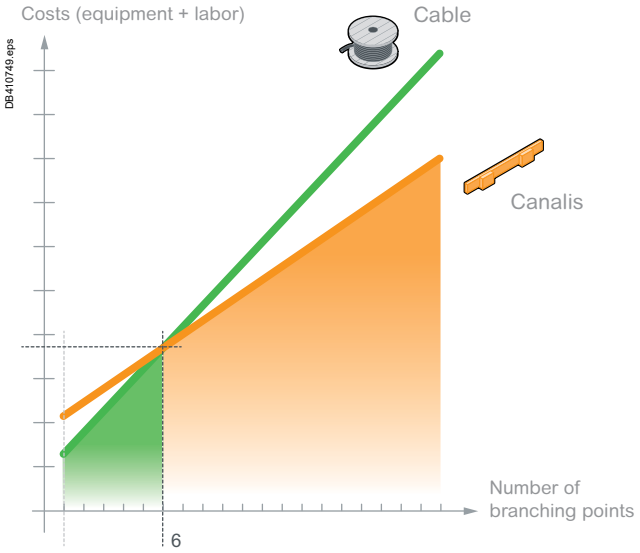
Simplicity, upgradeability, safety and continuity of service and operation.

Savings start as soon as the installation begins. With multiple tap-off points at regular intervals, Canalis busbar trunking reduces installation costs.
Given the low cost of adding new circuits, savings increase as the number of loads increase, a natural consequence of the growth of your business.



Comparative investment

of 400 A electric power system equipment.



Introduction

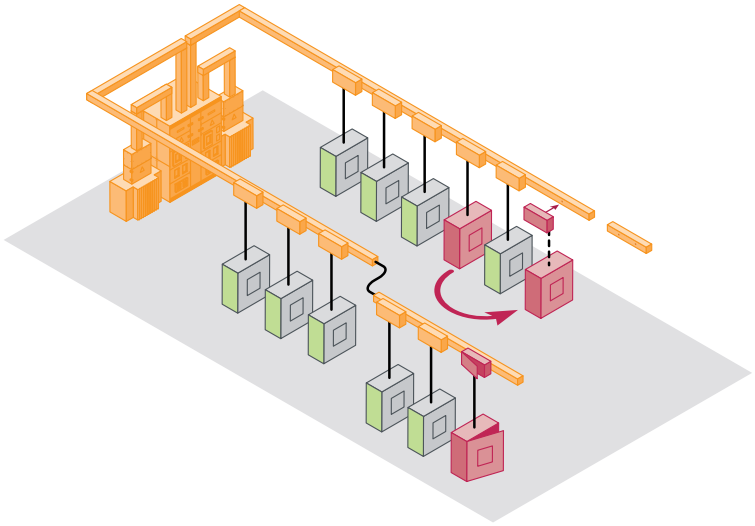
The Canalis decentralized distribution concept

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.

DB406501



Reusable in the event of major changes

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

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.

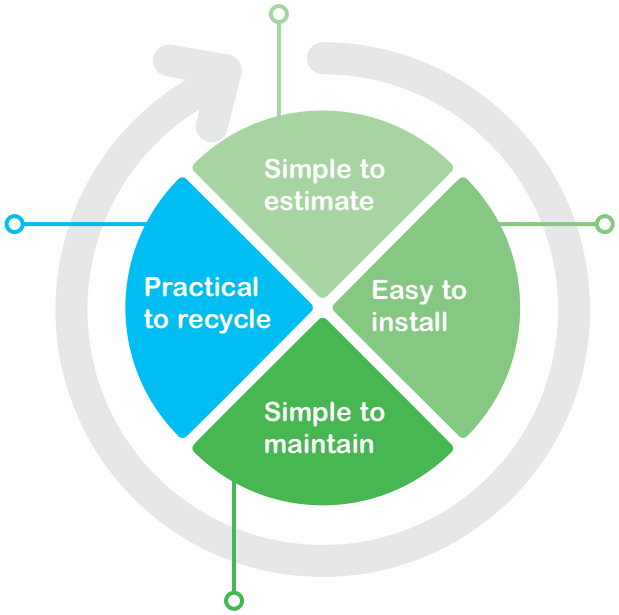
Simple to estimate

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.**



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.

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…

Introduction

Canalis, in total harmony with the environment

Safety of life and property


DD205675_r

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

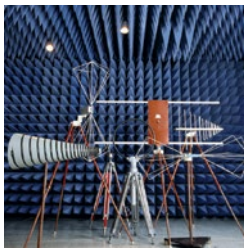
When PVCs burn, they produce large amounts of smoke that can be a serious safety hazard.

- **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 m^3 of smoke.
- 7.5 m^3 of hydrochloric acid.
- 3.7 kg of corroded steel.

Health


DD205674

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 long-term risk of cancer. Some countries have created standards that stipulate limits (e.g. 0.2 µT 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 well-defined 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.

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 %

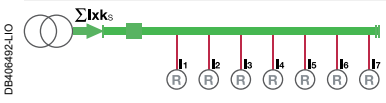
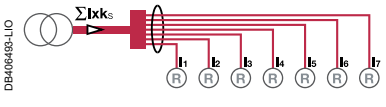
Canalis divides your consumption of plastic by a factor of four

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:

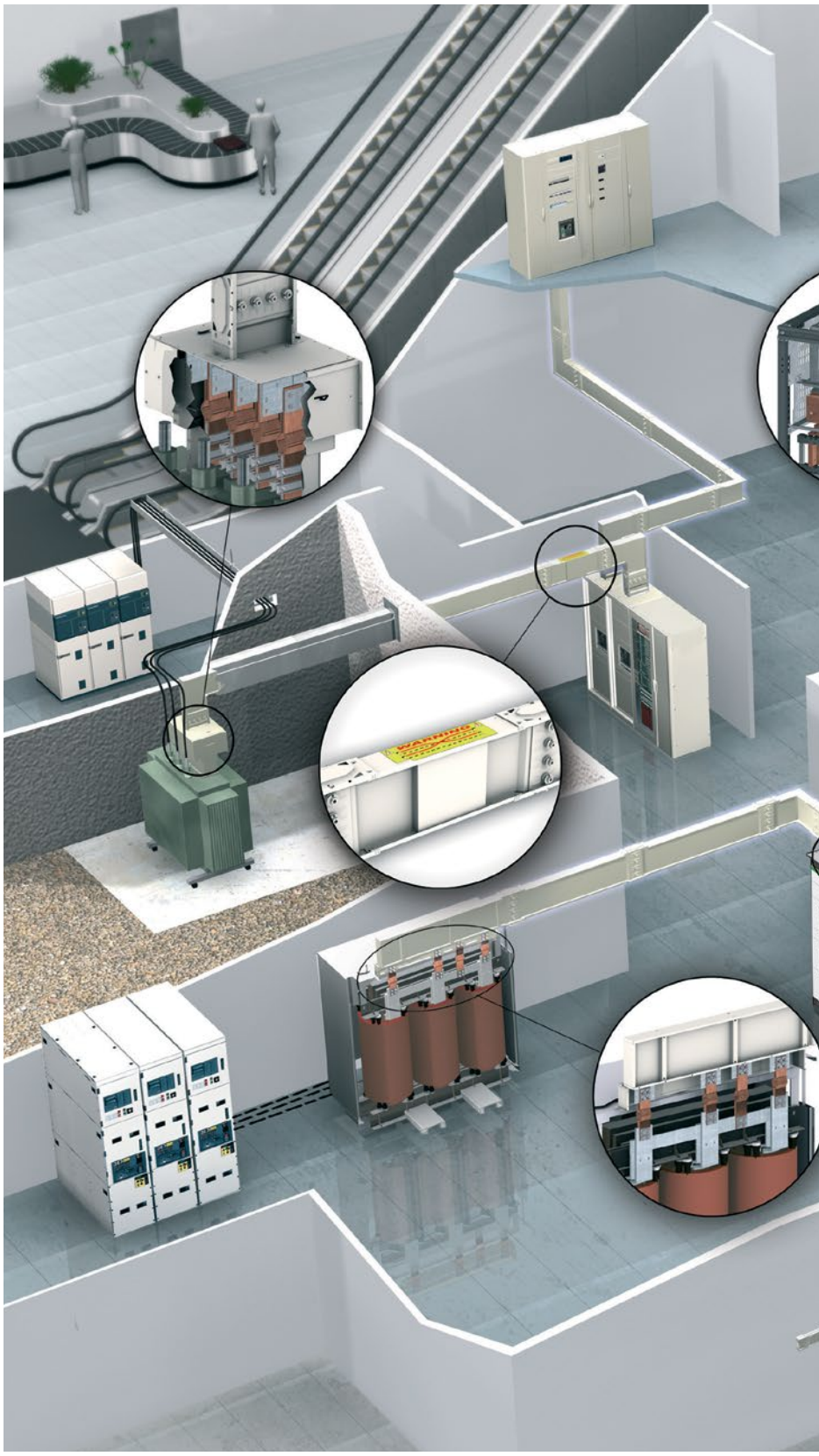
34 m of Canalis KS 250 A trunking equipped with fourteen 4-pole 25 A feeders.

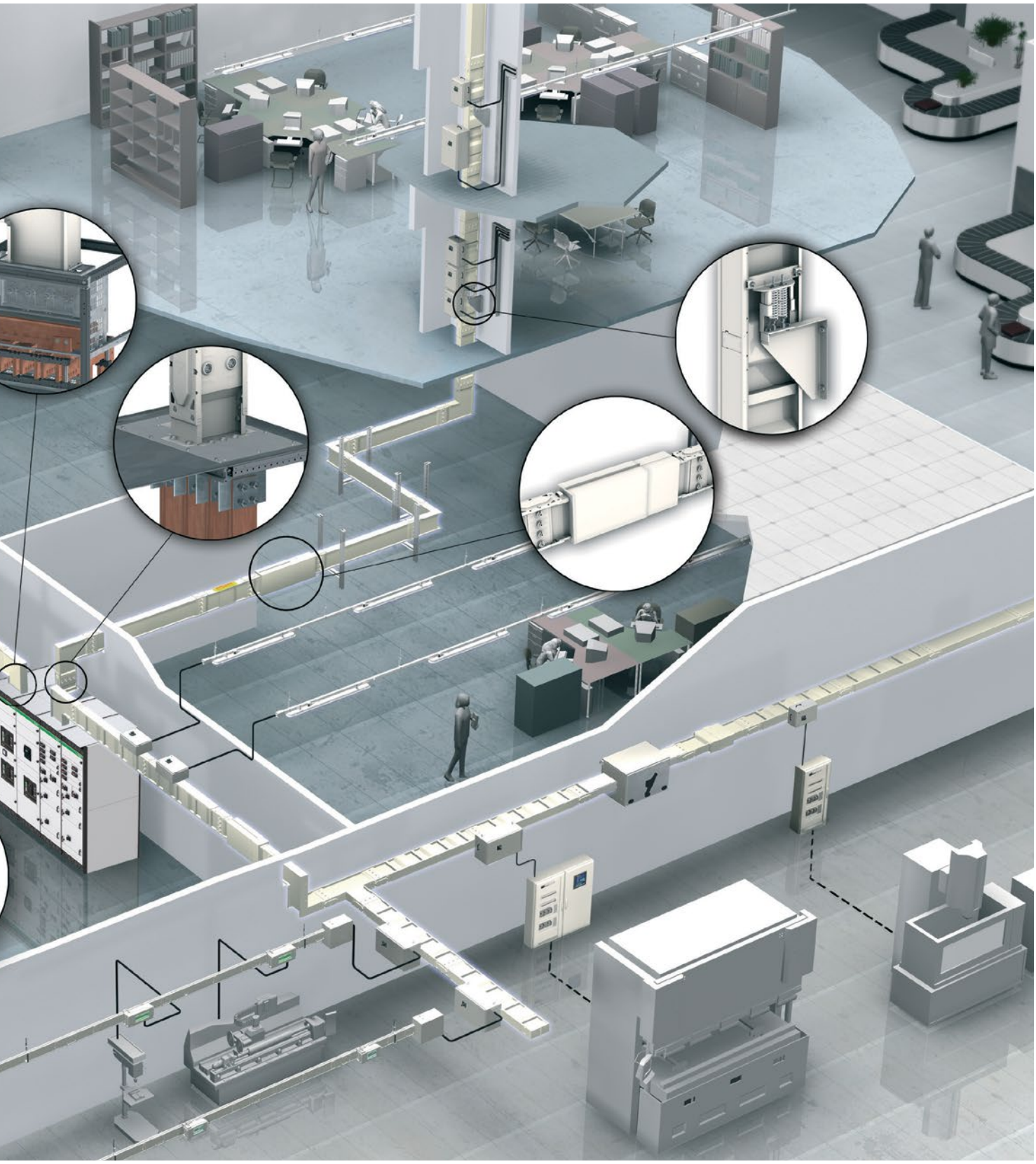
Type of distribution	Insulation	Consumption
DECENTRALISED		
	 23 kg	 1600 Joules
K_S: diversity coefficient = 0.6		
CENTRALISED		
	 90 kg	 2000 Joules
Ks: diversity coefficient = 0.6		

From the transport to the distribution...

Canalis is the core of your installation

DB411145





Introduction

Canalis KT, a display of advantages

A compact solution


DB406527

- 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


PD202385_r

- The design study is easy to perform as it does not require a detailed layout of each load. Equipment choice is pre-determined 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.

Canalis KT, a display of advantages

Certified installation

PD202386_68



- 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 t**hat 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).

PD202088-rW



Introduction

Canalis is adapted for all types of buildings

Key points

Office and hospital buildings

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

Car industry and industrial buildings

- Operating continuity
- Able to be evolved
- Low voltage drops
- Network readability

Shopping centres, airports and exhibition centres

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

Internet Data Centers

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

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Image4-300



100144-300



CUP0027589-300



CLP0300696_RGB_EA-300



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Canalis® Solutions

Solution for Data Center

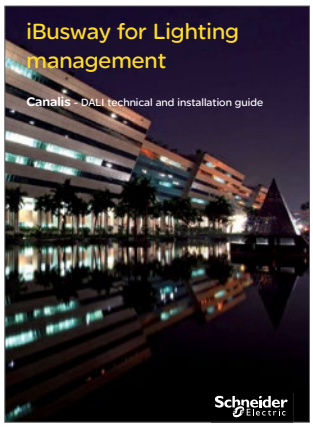
- iBusway for Data Center catalogue: **DEBU028EN**
- iBusway for Data Center brochure: **DEBU027EN**





Solution for lighting management

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





Application datasheets/Guide

- In cruise ships: **DESWED105014EN**
- In livestock production buildings: **DESWED105010EN**
- In logistic centers: **DESWED105011EN**
- In car parks: **DESWED108011EN**
- In greenhouses: **DESWED105013EN**
- In garages: **DESWED106004EN**
- In hypermarkets: **KD0C98CTAHYEN**
- In automotive industry: **KD0C98CTAAUEN**
- In Photo-Voltaic: **For information consult your sales office**
- In Data centre: **For information consult your sales office**





Design guideline

Usage of Canalis KT in PV applications



Introduction

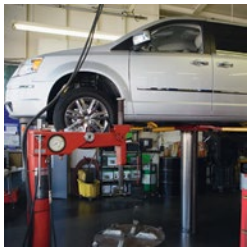
Canalis, the reference all around the world

Tertiary

Applications	Name	Lighting and low current		Medium current		High current	Country
		KBA	KBB	KN	KS	KT	
Offices							
 P117484-32	Air France (headquarters)				●		France
	Allianz				●	●	Germany
	Axa	●			●		France
	Chamber of Commerce					●	Luxembourg
	Commerz Bank		●		●		Germany
	Lexel			●	●		Sweden
	Telefónica					●	Spain
	Trade Center	●				●	Spain
	Tour du RDC				●	●	Tunisia
	Turning Torso				●		Sweden
	Vodafone			●			New Zealand
Internet Data Center							
 38EQI029-32	Banco Commercial Português				●	●	Portugal
	Colt			●		●	France
	Digiplex			●	●		Sweden
	IBM	●		●	●	●	Spain, Italy
	MCI-Worldcom	●		●	●	●	Italy, United Kingdom
Hotels and restaurants							
 032627-32	Hyatt					●	Tunisia
	Mc Donald's						France
	Soldeo Andorra Hotel				●	●	Spain
Hospitals							
 P119196-32	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							
 054723-32	Alcampo	●		●		●	Spain
	Auchan	●	●	●	●	●	World
	B&Q		●	●	●		United Kingdom
	Carrefour	●	●	●	●	●	World
	Coop	●		●	●		Italy
	Fnac	●				●	Spain, France
	Ikea	●		●	●	●	China, Spain, France, Sweden
	Mark & Spencer	●					Belgium, Spain, United Kingdom
	Toys'R Us				●		Spain

Canalis, the reference all around the world

Industry


PB110345-32

Applications	Name	Lighting and low current		Medium current		High current	Country
		KBA	KBB	KN	KS	KT	
Car industry							
	BMW	●	●	●	●		Italy
	Citroën	●	●	●	●	●	China, Spain, France
	Daewo				●		South Korea
	Dacia	●	●	●	●	●	Romania
	Iveco	●		●	●	●	Spain, Italy
	Peugeot		●	●	●	●	China, Spain, France
	Nissan	●	●	●	●	●	Spain
	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, Belgium
	Danone	●			●	●	World
	Pasquier			●	●		France
Livestock production farms and greenhouses							
	Favier henhouse	●					France
	Greenhouse		●				Netherlands
Ceramic industry							
	Esmalglas ceramic	●	●	●	●	●	Spain
Electricity							
	Legrand	●					France, Turkey
Watch-making							
	Rolex	●			●	●	Switzerland
Microelectronics							
	Intel	●	●	●	●		Irelande
	ST Micro-electronique	●		●	●	●	France
Lead industry and water treatment							
	Grundfos				●		China
Industrial technology							
	Bosch	●			●		China
Telephony							
	Phillips				●		Netherlands
	Nokia	●			●		Sweden
Textile industry							
	Louis Vuitton	●		●	●		Spain
	Delta	●		●			Israel

Introduction

Canalis, the reference all around the world

Infrastructure

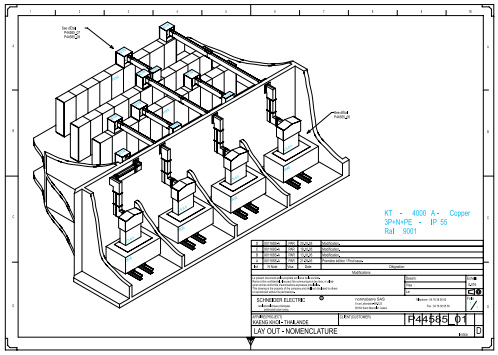
Applications	Name	Lighting and low current		Medium current		High current	Country
		KBA	KBB	KN	KS	KT	
Airports							
 PD202250_r	Paris Airport	●	●	●	●	●	France
	Cairo Airport				●		Egypt
	Heathrow Airport			●	●	●	United Kingdom
	Hong-Kong Airport					●	China
	Landvetter Airport				●		Sweden
	Arlanda	●			●	●	Sweden
	Satelite Barajas					●	Spain
Marine							
 PD202251_r	Chantier de l'Atlantique				●	●	France
	Meyerwerft				●	●	Germany
Undergrounds							
 PD202252_r	Guanghzou Underground	●					China
	London Underground		●				United Kingdom
	Madrid Underground	●				●	Spain
	Singapore Underground					●	Singapore
Other infrastructures							
	Alexandria Library				●	●	Egypt
	Centre international d'exposition de Suzhou	●			●		China
	CERN				●	●	Switzerland
	Stade de France				●	●	France

Working together on your solution

PB115582



DD210862



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":

1	2	3	4	5	6	7	8
Project launch	Technical support	PowerSet Canalis Design drawing	Autocad drawing	Production	Project management	On-site instruction and installation	After-sales service

Introduction
Canalis tools and services

Empowering you with smart tools

DB433750



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:

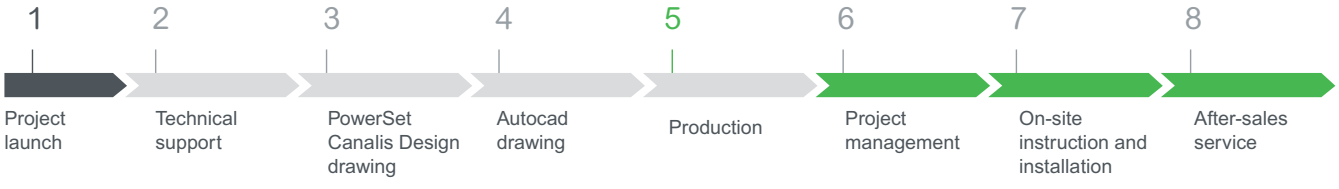
For Installers

- 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":



Label Sticker

Label Sticker

DB410976

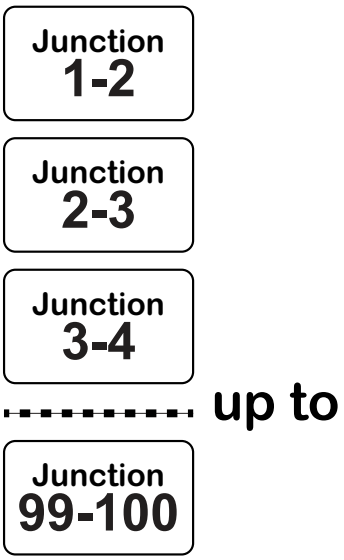


Description	Cat. no
KT JB Positioning Label Sticker	KTB0100YL1

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).

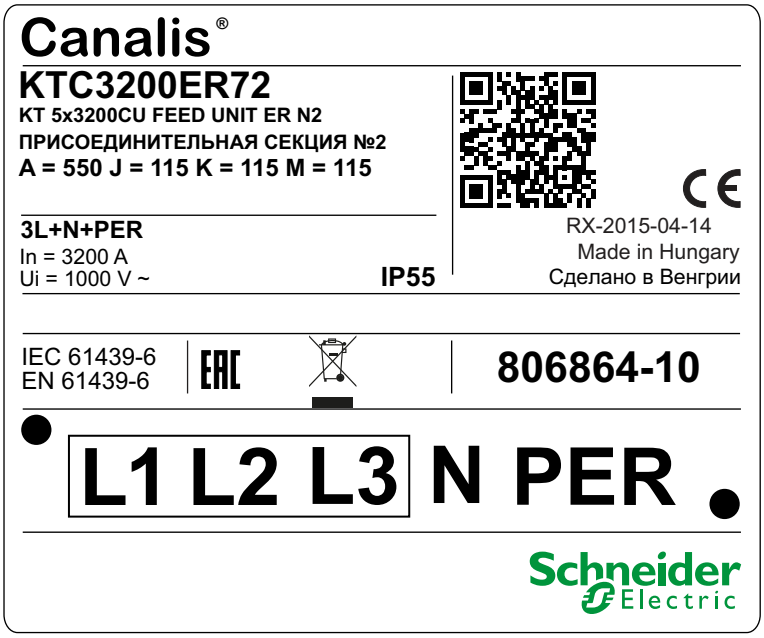
Example of label roll (Size: 15 mm x 25 mm)

DB433595



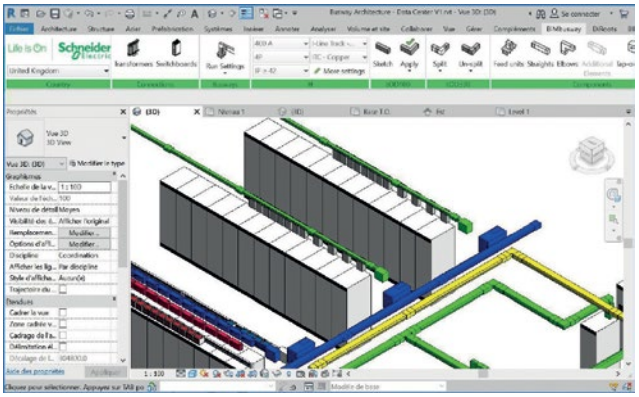
Label image

DB433682



Introduction
Cantools

Quotation and Design tools



CanBrass

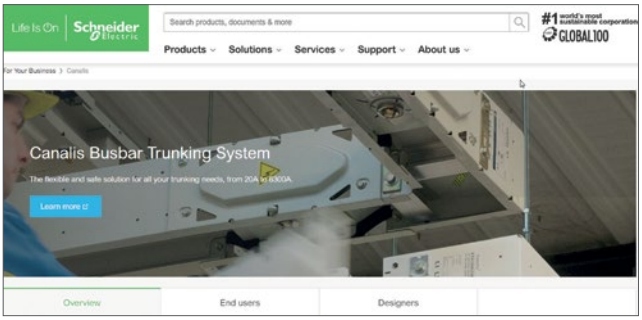
> is a design and costing tool for Canalis busbar trunking runs.

CanCad

> is a Plug-in for Autocad. It allows to easily design and get bill of materials.

BIMBusway

> is a Plug-in for Revit. It allows to easily design and get bill of materials in BIM format.



... about Canalis and I-Line ranges

Presentation and description

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B

Panorama of Canalis range
Lighting and power distribution

Canalis KTC

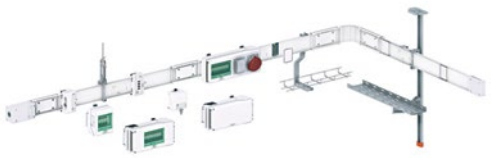
PB122259



Lighting and low power distribution from 25 to 40 A - IP55

Rated service current	Rated insulation voltage	Color	Line components	
Inc	Ui		Length of components	Number of conductors
Canalis KBA				
25 A 40 A	690 V	Pre-lacquered white (RAL9003)	2 m and 3 m	2 or 4 + PE
Canalis KBB				
25 A 40 A	690 V	Pre-lacquered white (RAL9003)	2 m and 3 m	Single circuit 2 or 4 + PE Dual circuit 2 + 2 + PE 2 + 4 + PE 4 + 4 + PE

PD202221_r_KN

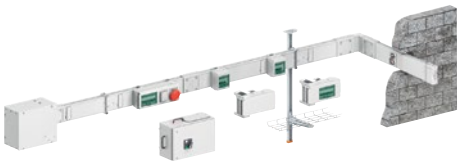


Power distribution from 40 to 160 A - IP55

Canalis KN *				
40 A 63 A 100 A 160 A	500 V	Pre-lacquered white (RAL9001)	2 m and 3 m	3L + N + PE

* Canalis KN range is available on se.com

PB115580-30



Horizontal and vertical distribution from 100 to 1000 A - IP55

Canalis KS *					
Aluminium:	**Copper:**	690 V	Pre-lacquered white (RAL9001)	3 m, 5 m and additional or customized components	3P + N + PE
100 A, 160 A, 250 A, 400 A, 500 A, 630 A, 800 A, 1000 A	160 A, 250 A, 400 A, 630 A, 800 A				

* Canalis KS range is available on se.com or catalogue: DEBU026EN

PB124535



Horizontal open track distribution from 250 to 630 A - IP42

I-Line Track				
250 A, 400 A, 630 A	690 V	Pre-lacquered white (RAL9003)	Standard 3 m or customized	3L + N + PE

PD202088-74_r

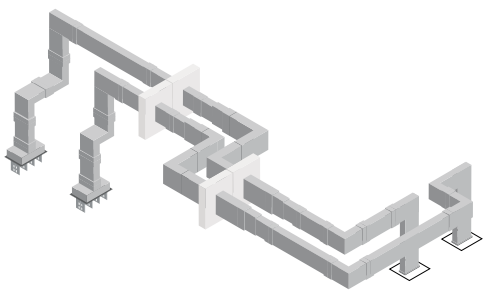


Power transmission and distribution from 800 to 6300 A - IP55

Canalis KT *					
Aluminium:	**Copper:**	1000 V	Pre-lacquered white (RAL9001)	2 m and 4 m	3L + PE 3L + N + PE 3L + N + PER
800 A, 1000 A, 1250 A, 1600 A, 2000 A, 2500 A, 3200 A, 4000 A, 5000 A	1000 A, 1350 A, 1600 A, 2000 A, 2500 A, 3200 A, 4000 A, 5000 A, 6300 A				

* Canalis KT range is available on se.com or catalogue: KTA: ref. DEBU021EN / KTC: ref. DEBU024EN

DB410226



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

Canalis KR *				
800 A, 1000 A, 1250 A, 1350 A , 1600 A, 2000 A, 2500 A, 3200 A, 4000 A, 5000 A, 6300 A	1000 V	Gray (RAL7030)	Up to 3 m	3L 3L + N or 3L + PE or 3L + PEN 3L + N + PE

* Canalis KR range is available on se.com or catalogue ref. DEBU031EN

	Branching points			Accessories
	Center to center distance		**Protection type**	
	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, KNX, ASI) > Cable ducts
	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, KNX, ASI) > Cable ducts
	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
	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
	Continuous opened channel	16 A to 63 A outputs in tap-off units		> Data Center IT room > Fixing devices with quick adjustment > Installation accessories > Color customization
	0.5 m or 1 m	80 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
	-	-	-	> Power supply ends > Direction change angles and T-pieces > Fixing devices > Fire resistant elements

Presentation

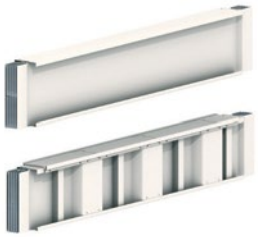
Canalis KTC from 1000 to 6300 A
For horizontal transport and distribution

Canalis KTC

Run sections

■ Rating: 1000 to 6300 A.
■ Transport sections:
□ fixed lengths: 2 and 4 meters
□ non-standard lengths: 0.5 and 3 meters
■ Distribution sections:
□ fixed lengths: 2 and 4 meters.

PD202313_r



Tap-off units

■ Plug-in tap-off units:
□ protection by 25 to 630 A fuses
□ protection by 100 to 630 A Compact NSX circuit breakers.
■ Fixed tap-off units:
□ protection by 400 to 1250 A Compact NS and NSX circuit breakers
□ protection by 400 to 1000 A fuses.

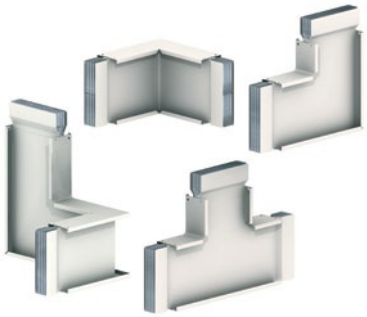
PD202314_r2



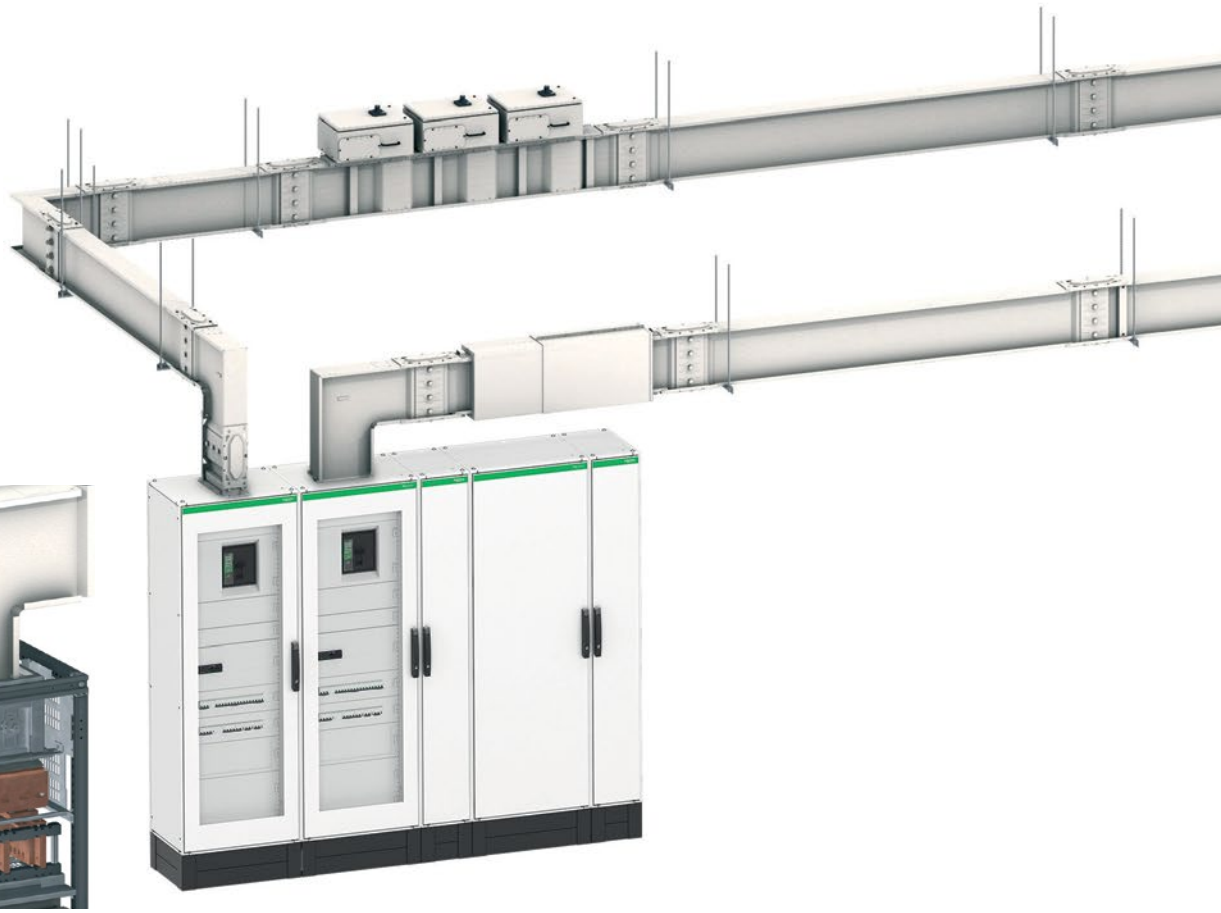
Change-of-direction sections

■ Change-of-direction sections adapt to all busbar trunking requirements.
■ There are both fixed and made-to-measure lengths.

PD202315_r



PB125376



PD202328_r

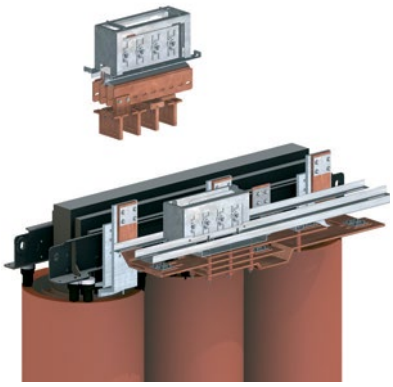


Canalis KTC from 1000 to 6300 A
For horizontal transport and distribution

Interface connections

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

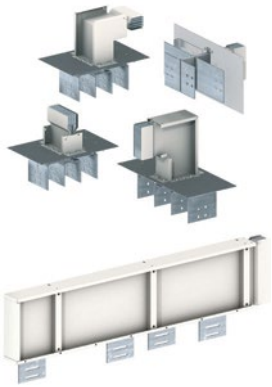
PD202431_r



Universal supply connections

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

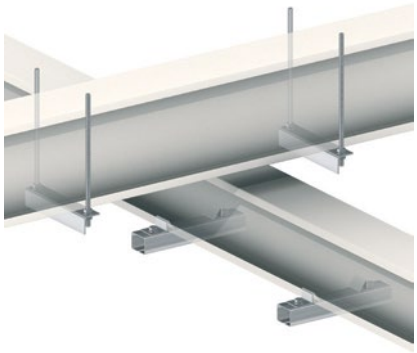
PD202317_r

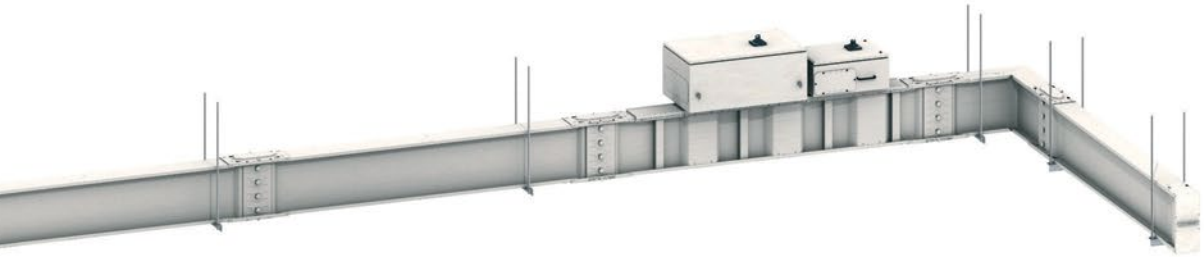


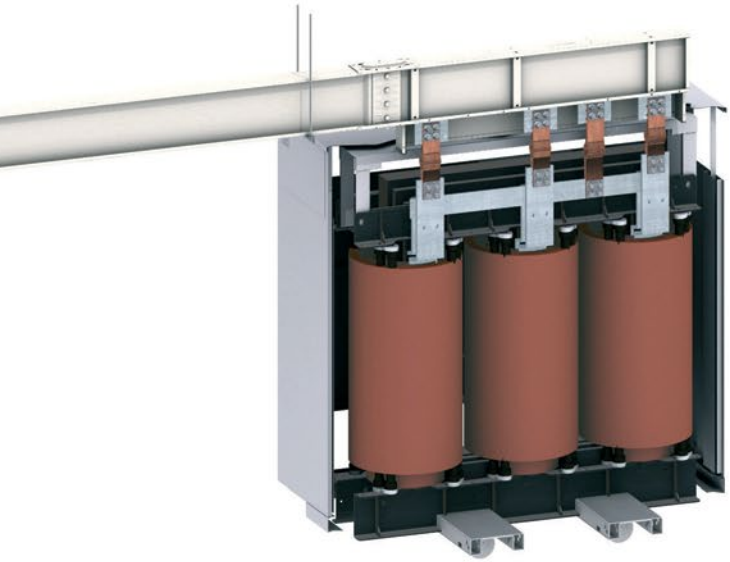
Horizontal fixing supports

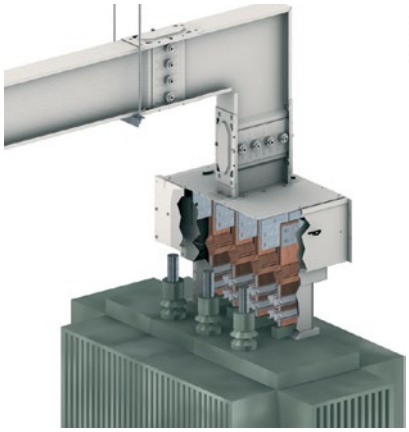
■ There are two types of support for installing the busbar trunking horizontally.
■ One type of fixing: to fix the busbar trunking to its support.

PD202318_r









PD202300_r

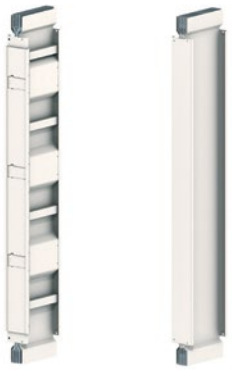
Canalis KTC from 1000 to 6300 A
For distribution to different levels
Rising mains

Canalis KTC

Run sections

■ Rating: 1000 to 6300 A.
■ Distribution sections, fixed or made to measure.
■ Transport sections for going through floor slabs, made to measure 0.5 to 3 meter lengths.

PD202320_r



Vertical fixing support

■ For installing the busbar trunking vertically, they ensure:
□ height and depth adjustment
□ load sharing
□ absorption of expansions, vibrations, etc.
■ They can be fixed either to the floor, the wall or to a bracket.

PD202321_r



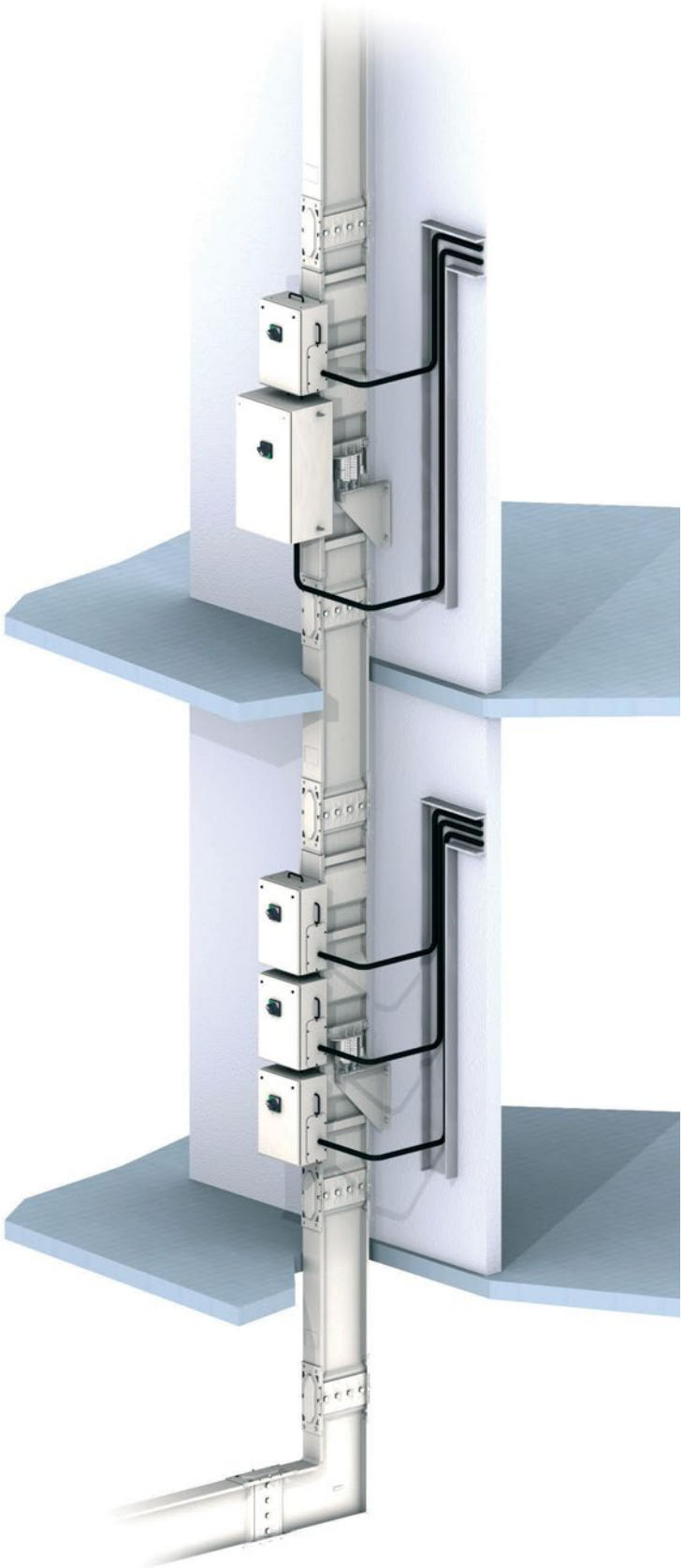
Tap-off units

■ Plug-in tap-off units:
□ protection by 25 to 630 A fuses
□ protection by 100 to 630 A Compact NSX circuit breakers.
■ Fixed tap-off units:
□ protection by 400 to 1250 A Compact NS and NSX circuit breakers
□ protection by 400 to 1000 A fuses.

PD202322_r



PD202319_r



Tap-off units from 25 to 1250 A

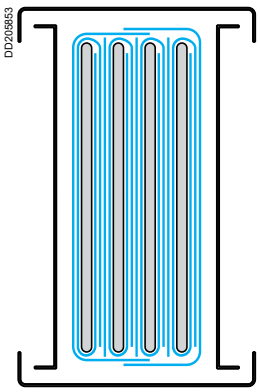
Rating (A)	Type of protection			
	Modular switchgear	Compact NS and NSX	Fuses	Compact NSX with measurement and metering
Plug-on tap-off units				
25 to 100	 DB406528 63 A, 8 x 18 mm modules  DB406529 100 A, 12 x 18 mm modules	 PD202150_r For Compact NSX100 circuit breaker	 PD202138_r 25/50 A for NF/DIN fuses 32 A for BS fuses  PD202147_r 63 A for DIN fuses 100 A for NF/DIN fuses 80 A for BS fuses	
160	 PD202150_r For NG125/160 circuit breaker	 PD202150_r For Compact NSX160 circuit breaker	 PD202323_r 160 A for NF/DIN/BS fuses	
250 to 400		 PD202324_r For Compact NSX250 circuit breaker  PD202325_r For Compact NSX400 circuit breaker	 PD202184_r 250/400 A for NF/DIN fuses	Fitted with DIN rail for Powerlogic PM810  PD202324_r For Compact NSX250 circuit breaker  PD202325_r For Compact NSX400 circuit breaker
630		 PB124589 For Compact NSX630 circuit breaker	 PB124579 630 A for NF/DIN fuses	
Fixed tap-off units				
400 and 630		 PD202326_r For Compact NSX400 and NSX630 circuit breakers	 PD240004_r 400 to 630 A for DIN fuses(1)	
800, 1000 and 1250		 PD202327_r For Compact NS800, NS1000 and NS1250(1) circuit breakers	 PD240005_r 800 to 1000 A for DIN fuses(1)	

(1) Tap-off units for NS1250 and fuses (from 400 to 1000 A) in IP31 only.

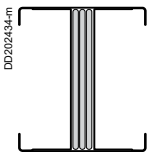
Canalis KTC

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.

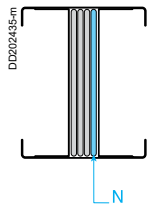
Run sections



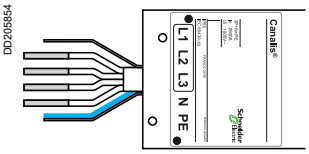
The conductors are sandwiched together inside the metal casing.

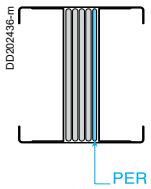


3L + PE



3L + N + PE





3L + N + PER

- 9 ratings are available, from 1000 to 6300 A.
- 4 copper 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).

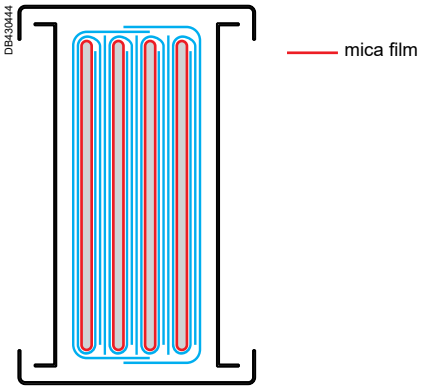
In its reinforced version 3L + N + PER, the busbar trunking is fitted with an additional internal copper conductor with a cross-section equal to half that of the phase conductor.
A reinforced version can be supplied on demand. This version has lateral reinforcement (see page “Characteristics”).

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 (off-load) via spring jaw connections.
Contact zone coating:
- silver-plated copper at jaw contact points.

Fire rated components



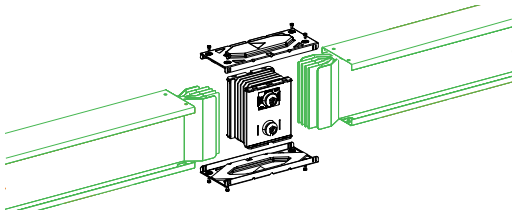
FT, FC and FP components are suitable for applications requiring continuity of service in case of fire. These components have the same cross section as the standard Canalis KT ones and are fully compatible and connectable.

These components comply with IEC 60331-1 and IEC 60331-21 for a duration of 480 minutes at 830°C.

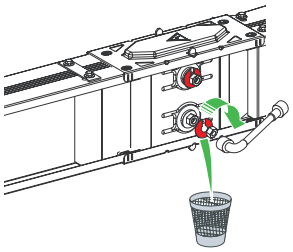
To achieve this performance, the conductors are wrapped in a mica film before being isolated by a polyster film. The plastic parts of the joint blocks are also reinforced to withstand higher temperatures.

Joint block

DD205856-G



DD205857-G



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.
Contact zone coating in silver-plated copper.

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.

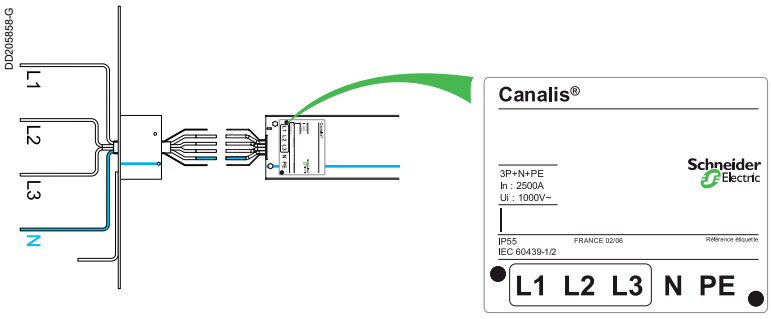
For dismantling or maintenance operations, the nut has a second head.
The tightening torque is 6 daN.m.

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

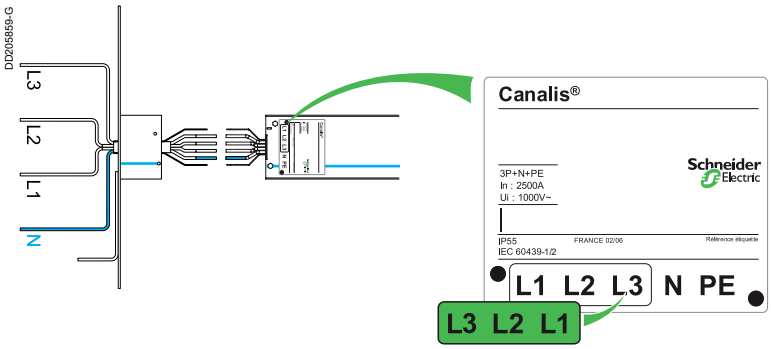
The standard phase order for the busbar trunking is denoted **N321**.

DD205858-G



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

DD205859-G



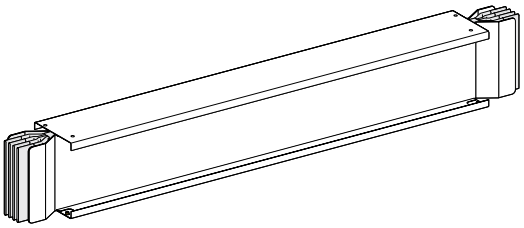
Canalis KTC

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 4 metres.

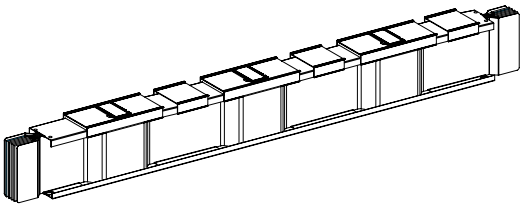
DD202390



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.

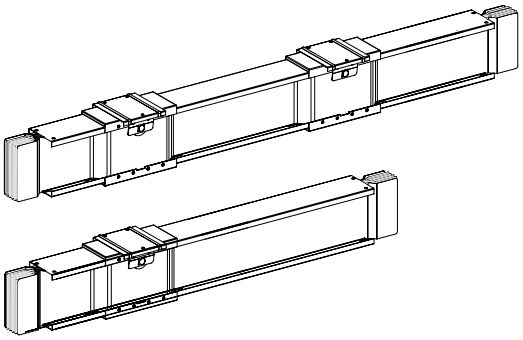
DD205860



Sections with tap-off points for fixed tap-off units - Type EB

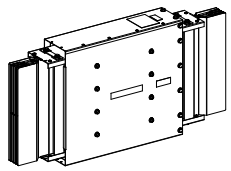
EB run sections are for current distribution.
They use specific KT 400 to 1250 A tap-off units.
These tap-off units can only be fitted / removed when the run is not energised.
Available in a 2 metre fixed length with one tap-off point or a 4 metre fixed length with 2 tap-off points.

DD205861



Other run sections

DB411594

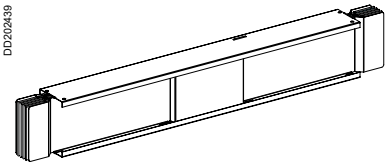


Expansion section - Type DB

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.

DD202439



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.

DD205863

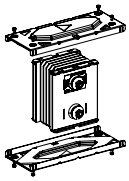


- The TP type transposes the phases.

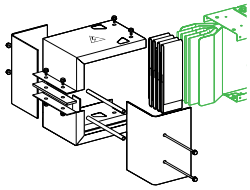
DD205864



DD210863



DD205862-G



Additional joint block - Type YA

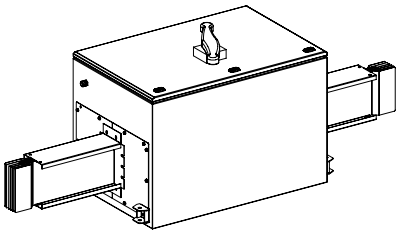
If the run has a feed unit (supplied without a joint block) at each end, an additional joint block must be ordered.
Each joint block is supplied with the necessary covers, nuts and bolts.

Run end cover - Type FA

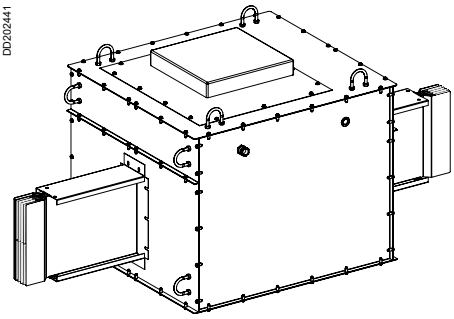
The end cover protects and insulates the conductor ends and is fitted to the last section.

Disconnectors and run protective devices

DD202440



DD202441



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:

- Pre-Wired Auxiliary with connection terminal kit
- 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.

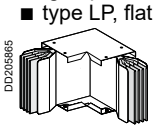
Canalis KTC

Simple changes of direction

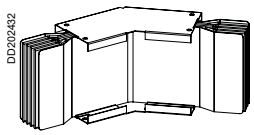
Elbows - Types LP and LC

To go up or down, to turn right or left:

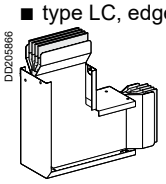
■ type LP, flat elbow available in fixed or made-to-measure lengths



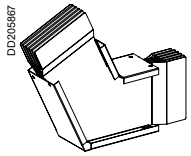
■ type LP●C, flat made-to-measure angled elbow



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

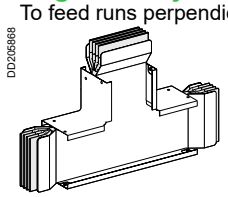


■ type LC●C, edgewise made-to-measure angled elbow.



Edgewise T junctions - Type TC

To feed runs perpendicular to the main run.



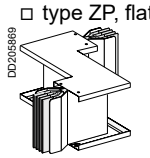
Changes of direction

Zeds - Types ZP, ZC and CP

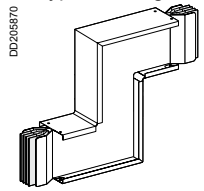
3-branch made-to-measure:

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

□ type ZP, flat Zed

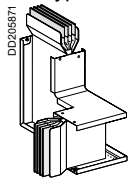


□ type ZC, edgewise Zed



■ edgewise / flat, to provide the busbar trunking with a bend:

□ Type CP, edgewise and/or flat Zed.



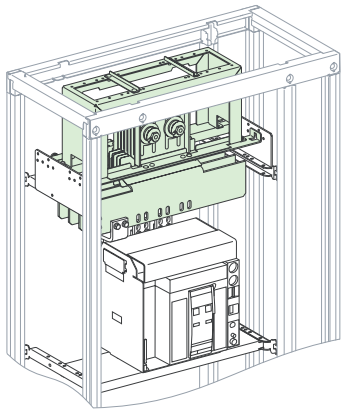
To connect the KTC busbar trunking to different terminals or to transformer, switchboard, generator set, etc. busbars. Canalis offers high performance connection sections which meet all requirements.

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.

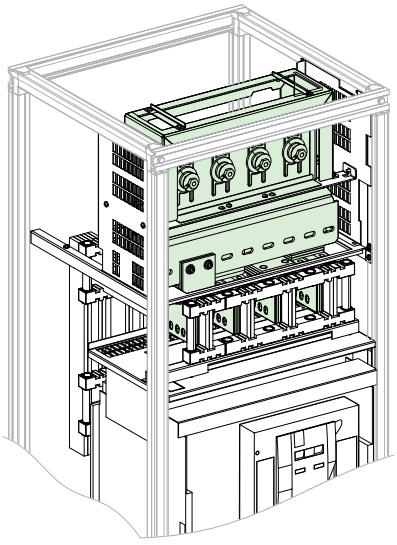
Connections via interface to PrismaSeT, Okken and Trihal

DD202306-G



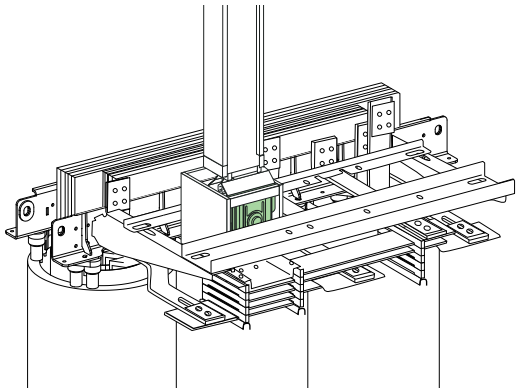
PrismaSeT switchboard

DD202310-G



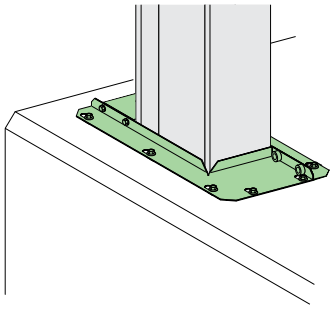
Okken switchboard

DD202503-G



Direct connection to Trihal transformers and Prisma**SeT** & 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.

DD202314-G



Sealing kit

PrismaSeT and Okken switchboards

For fixed or draw-out incoming device, front or rear connection:
- Masterpact NW08 to NW63 or NT06 to NT16 circuit-breaker
- Compact NS630b to NS1600 circuit-breaker.

Possibility of switching the phases around.

France Transfo Trihal dry type transformers

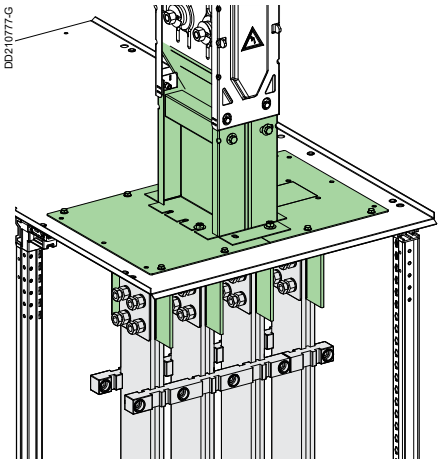
For naturally ventilated or force ventilated transformers.
Protection degree:
- IP00
- IP31.

Secondary voltage: 410 V

± 15 mm adjustment in the 3 axes.

Canalis KTC

Universal connections to switchboards and oil immersed transformers

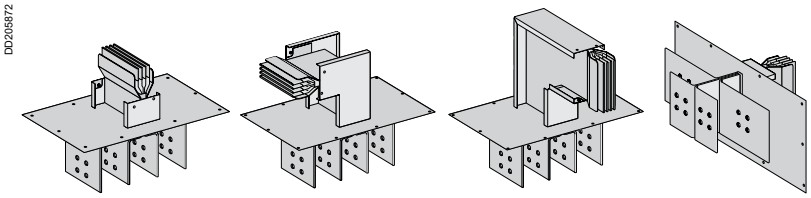


Feed units - Type ER

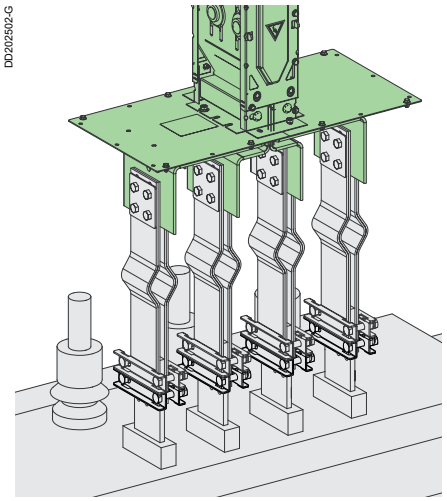
They allow the busbar trunking to be connected to a switchboard's busbar, or to the terminals of an oil immersed transformer, generator set, etc.

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.



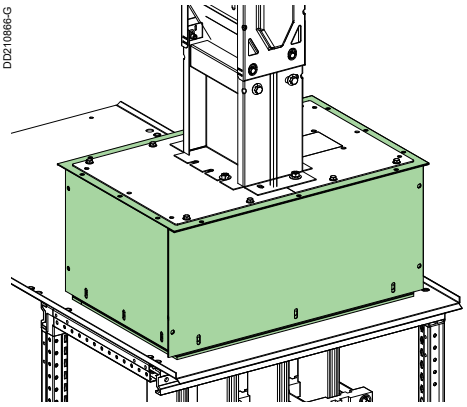
Types ER N1/N2 | Types ER N3/N4 | Types ER N5/N6 | Type ER N7



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.

DD210866-G



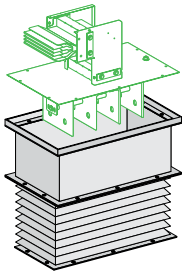
Protective covers - Types CS, CR, BC

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.

DD210864-G

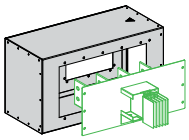


For a vertical incomer - Types CR1 to CR3

Made-to-measure rigid protective cover for ER N1 to N7 feed units.
They are height adjustable by ± 50 mm.

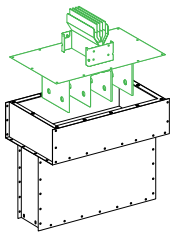
■ Type CR1 for a horizontal incomer.

DB428714-G

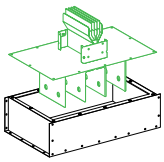


■ Types CR2 and CR3 for a vertical incomer.

DD210865-G



DD205624-G



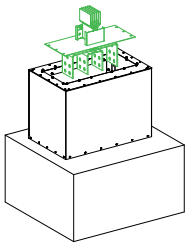
■ Types CR7 and CR8
Protective covers for Minera oil immersed transformers.
Only for ER N1 to N6 feed units with a between centres distance of 150 or 170 mm depending on the rating.

Fit directly onto the BT series transformer tanks.

Never use with HV porcelaine bushings.

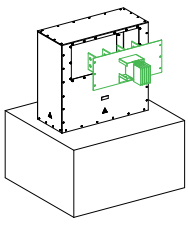
□ Type CR8 for a vertical incomer.

DB430192-G



□ Type CR7 for a horizontal incomer.

DB430191-G

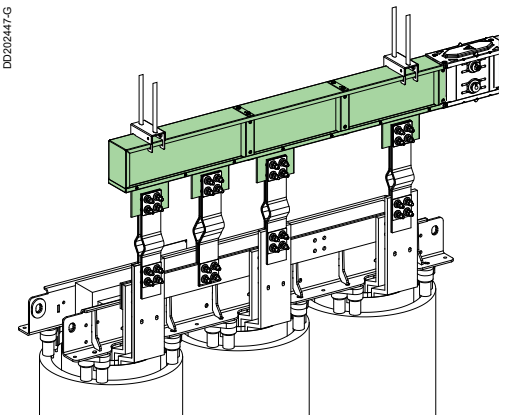


□ Type BC
Protective cover for direct cable connection to ER N1 to N6 feed units with a between centres distance of 115 mm.

Canalis KTC

Universal connections to dry type transformers

DD202447-G

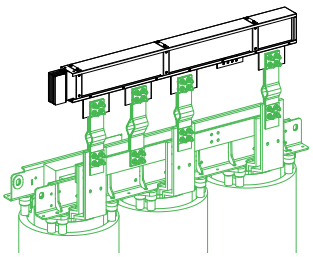


Feed units - Type EL

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:
- either from the side

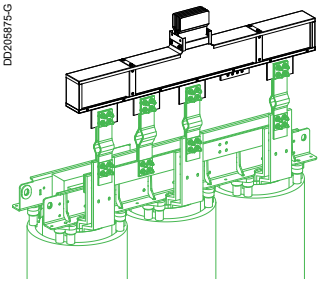
DD205874-G



Type EL N1/N2.

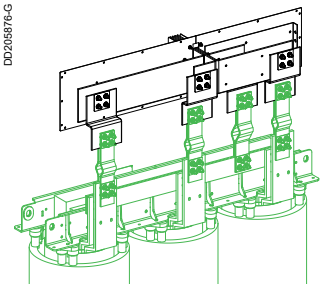
- or from the centre.

DD205875-G



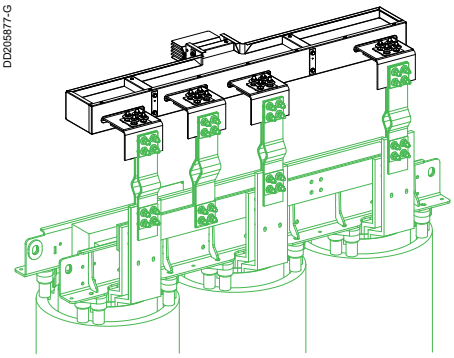
Type EL N3/N4.

DD205876-G



Type EL N5.

DD205877-G



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).

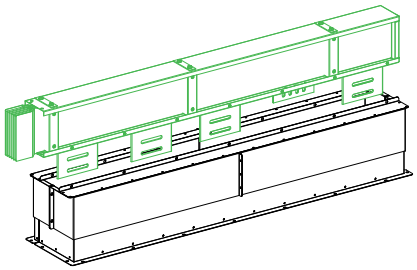
The link between the transformer terminals and the connection section is either by flexible bar connection plates or by braids.

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.

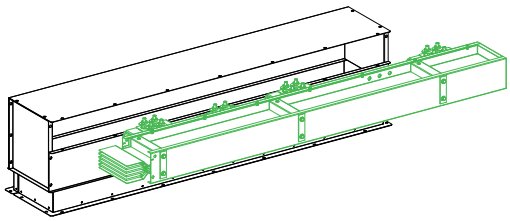
■ Type CR4
Protective cover for EL N1 to N4 feed units.
Edgewise assembly.

DD202342-G



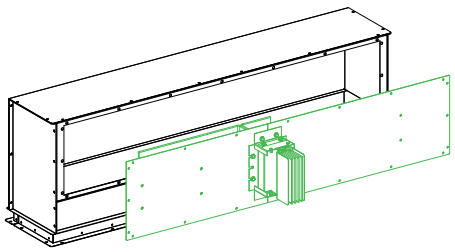
■ Type CR5
Protective cover for EL N1 to N4 feed units.
Flat assembly.

DD202343-G



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

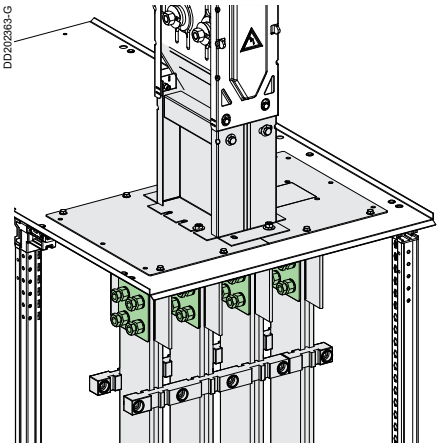
DD202346-G



Canalis KTC

Accessories for direct connection to the switchboard

DD202363-G

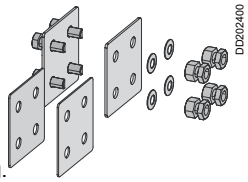


The conductors of ER N1 to N6 feed units are connected directly to the switchboard busbars.
YB2 copper spacers are available to compensate differences in thickness between the switchboard bars (10 mm) and the connection part (6 mm).

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.

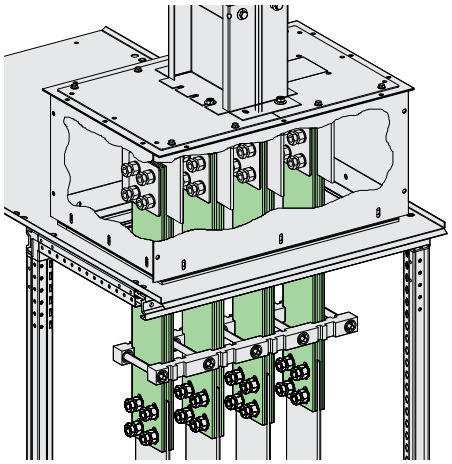
Order a set per feed unit whatever the rating.

DD202400



Switchboard connection accessories using connection plates

DD210784-G



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 x 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 300 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.

DD202401



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

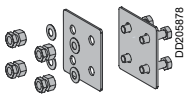
The length of the holes at the switchboard side are to be adapted on-site.

DD202403



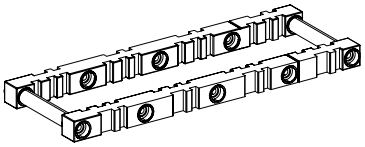
Nuts and bolts
The connection plates are fixed to the feed unit using the YB3 nut and bolt kit, made up of:
- 16 off M12 x 60 mm bolts, class 8.8
- 16 contact washers
- 16 torque nuts
- 8 steel spacer plates.

DD205878



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

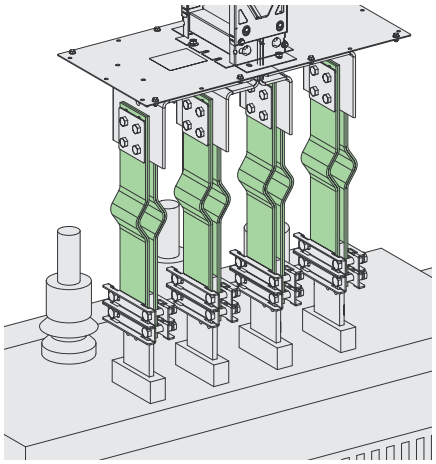
DD202411



Insulation
See page 41.

Transformer connections - Types YC, YT

DD205879-G



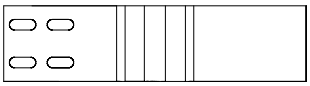
The feed unit conductors are connected to the transformer bars via connection plates or braids:
- the YC are flexible bars made up of 5 copper sheets 1 x 100/120 mm or of 5 bimetal aluminium/copper sheets 1.4 x 100/120 mm.
- braids, YT type, are copper braids with a 600 mm² cross-section.

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).

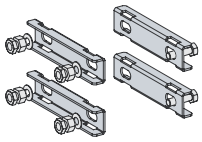
DD202412



YS2 and 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.

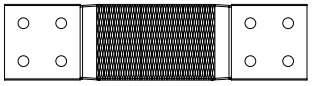
DD205880



Braids

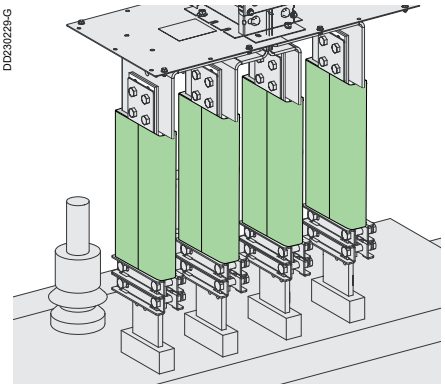
Type YT, 400 mm long insulated braid with 4 holes at each end.

DD202415



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.

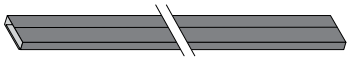
DD230229-G



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.

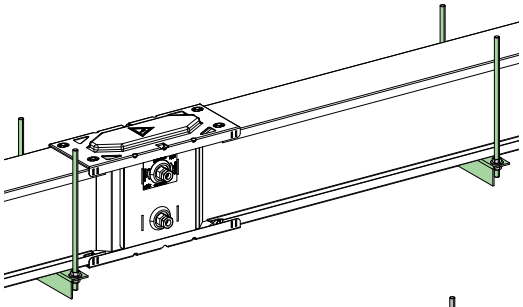
DD230230



Canalis KTC

Horizontal supports

DD202372-G

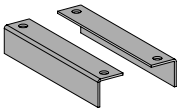


The ZA types allow the busbar trunking to be fixed and adjusted along its length, as well as absorbing its movements.

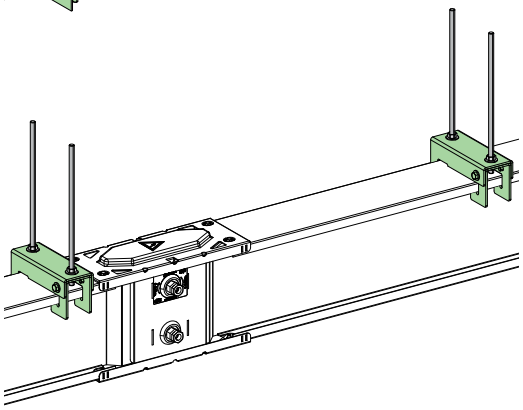
Supports for horizontal sections

■ Type ZA1, to support edgewise busbar trunking only, consists of a steel angle bracket and 2 x 2 metre threaded M10 rods.
The maximum distance between supports is:
□ 3 metres for edgewise busbar trunking
□ 2 metres for flat busbar trunking.
See installation precautions.

DD202485

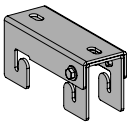


DD202368-G

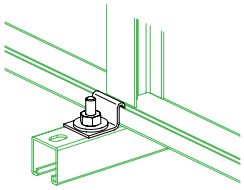


■ Type ZA4, to support the busbar trunking from the top.
■ These supports are needed to fix edgewise EL N1 to N4 feed units for dry type transformers (rods not supplied).

DD202486



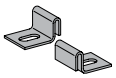
DB411342



Fixing bracket

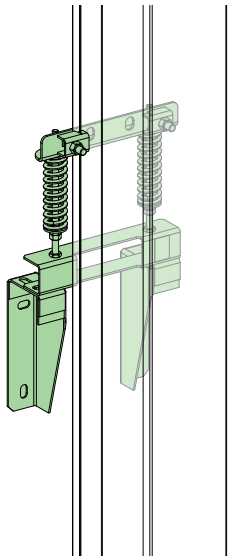
The ZA3 keeps the busbar trunking in place on its support, without blocking it, in order to allow expansion movements.

DB411394

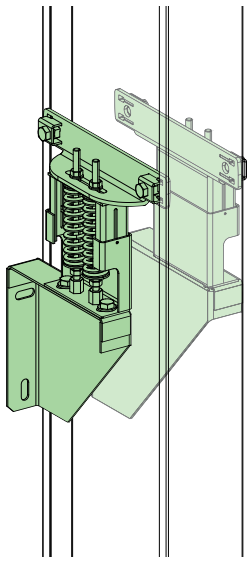


Vertical supports

DB428655-G



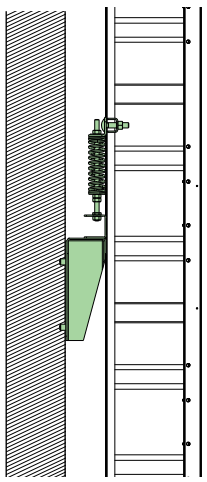
For KTC1000 to KTC2000.



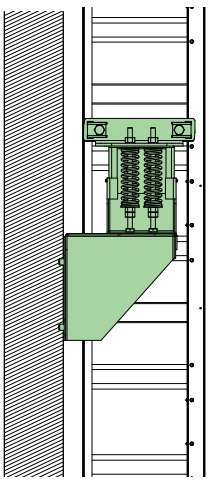
For KTC2500 to KTC5000.

The ZA5 is for supporting vertical sections.
They fix sections of a vertical run to the building's structure.
This type of fixing support has the following advantages:
■ assembly:
□ to a wall
□ to a wall bracket
□ to the floor
■ height and depth adjustment
■ spring adjustment to ensure distribution of the load at each floor
■ avoids the transmission of building forces to the busbar trunking (expansion and vibration).

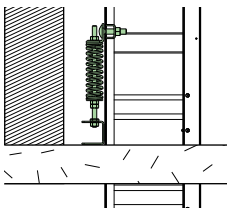
DB428656-G



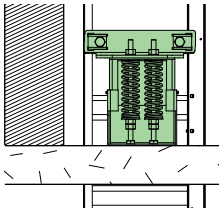
To a wall bracket
KTB0164ZA5●.



To a wall bracket
KTB0204ZA5● to
KTB0404ZA5●.



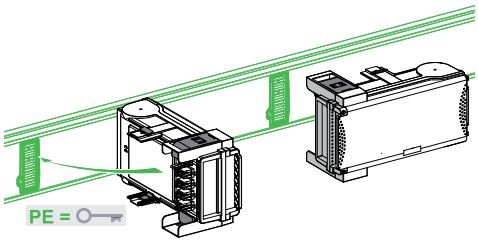
To the floor
KTB0164ZA51.



To the floor
KTB0204ZA51 to
KTB0404ZA51.

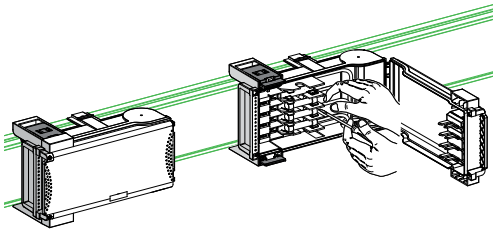
The tap-off units are used to instantly connect loads or secondary runs, and comply with installation standards and regulations (IEC 60364), whatever the earthing system (TT, TNS, TNC or IT).
When off-load, they can be plugged-on and off and be operated whilst live.
Plugging-on and plugging-off automatically opens and closes the tap-off point.

DD210275-G



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).

DD210276-G



Safety and operation

Fuse and modular switchgear tap-off units (AC20) are isolated as soon as the tap-off 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.

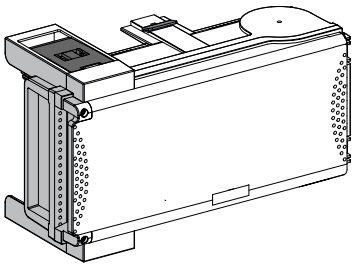
Characteristics of tap-off units up to 100 A
- Colour:
  - white (RAL 9001) body and carrying handles
  - transparent green door (similar design to the Kaedra enclosures).
- Material: self-extinguishing, halogen-free insulating plastic (fire resistant and very high temperature withstand).

Other characteristics: cable gland drilling zone, stainless steel screws and the door can be lead sealed.

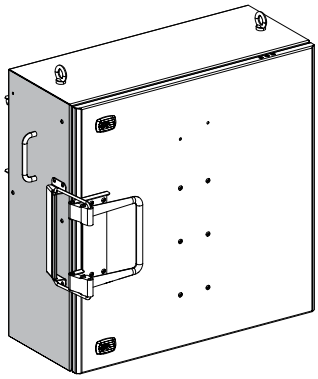
Characteristics of tap-off units from 160 to 400 A
- Colour:
  - white (RAL 9001) body
  - black carrying handles (RAL 9005)
  - 100 % polyester paint.
- Material: galvanized sheet steel.

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.

DD210466

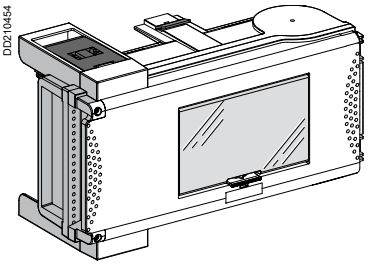


DD202012



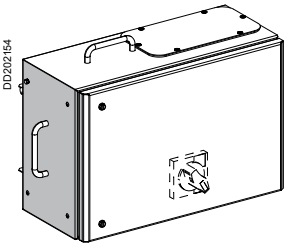
Description
Plug-on tap-off units for circuit breakers

Canalis KTC

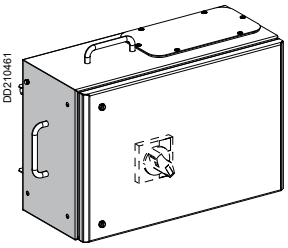


Isolator tap-off units for modular switchgear
Most 18 mm Multi 9 modular devices can be fitted into these tap-off units.
They have a window on the front face for switchgear control and visualisation.

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).



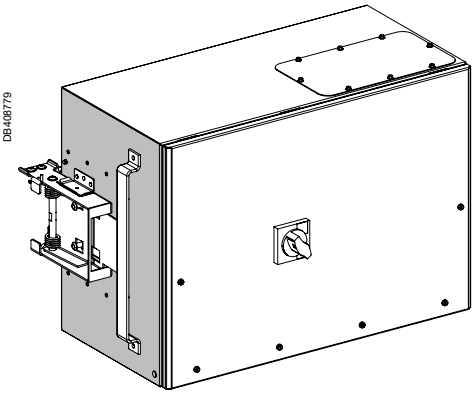
Tap-off units for NG type modular switchgear
These tap-off units are fitted with a DIN rail and upstream connections for 18 mm wide modular devices.
The switchgear is operated via a rotary handle which prevents door opening when the circuit breaker is in the “ON” position.
Nominal current: 160 A for a 13-module capacity (accepts NG125 or NG160 fitted with a Vigi unit).

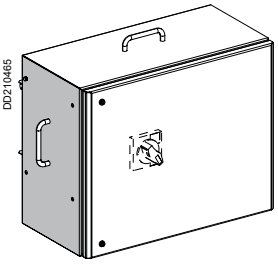


Isolator tap-off units for Compact NSX circuit breakers
These tap-off units are fitted with mounting plates and upstream connections for fixed, front-connected 100 to 630 A Compact NSX circuit breakers (N, H or L version) with a rotary handle.

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.





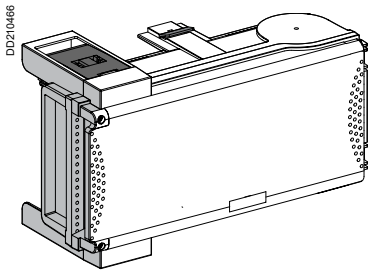
Measurement and metering isolator tap-off units
These tap-off units allow sub-metering to re-allocate power consumption costs by consumer and to monitor installations by, for example, following run load levels.
The values measured using the Compact NSX TI unit are sent to the measurement unit which then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

They are fitted with:
- a mounting plate for a Compact NSX 250 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.

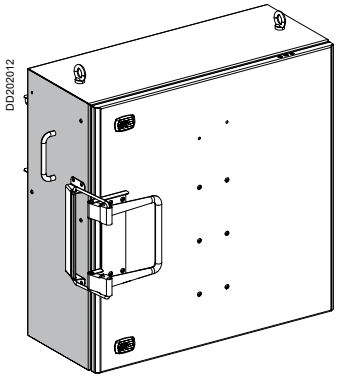
Plug-on tap-off units for fuses

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



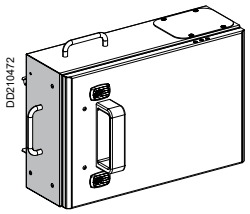
Plastic tap-off units

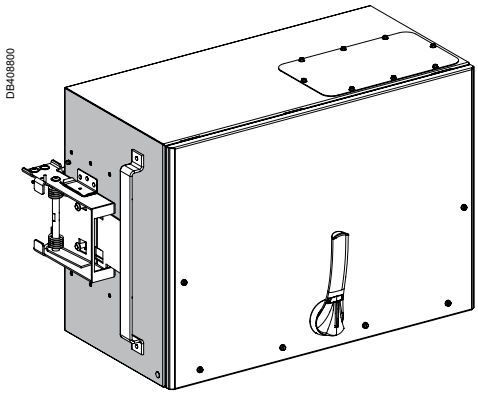
Fitted with carriers for:
- 50 to 100 A cylindrical NF fuses
- 25 to 63 A DIN screwed fuses
- 100 A DIN blade fuses
- 32 to 80 A BS screwed fuses.



Steel tap-off units

Fitted with carriers for:
- 160 to 400 A NF/DIN blade fuses
- 160 A BS screwed fuses
- fuses disconnector 630 A.





Fixed tap-off units for circuit breakers

Canalis KTC

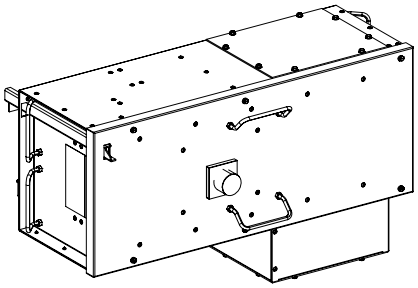
Safety and operation

The electrical connection is made by plugging-on the tap-off unit into dedicated tap-off 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
□ the door is fixed using 6 captive M6 screws and can be completely removed to facilitate cabling.

DD202451

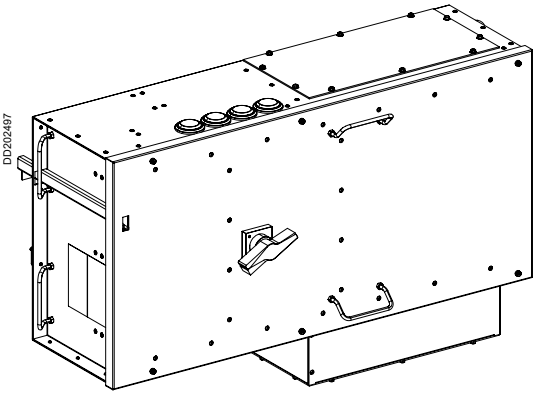


Steel tap-off units

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:
□ IP54
□ 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
□ 4 x 300 mm² cables for the phases and neutral (hole diameter = 15 mm)
□ 200 mm² for the PE (cable clamp).

DD202497



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Canalis KTC

Catalogue-number composition

K T ● ●●●● ●● ● ●●

■ One letter designating the material.

Type	Code
Aluminium	A
Non conducting	B
Copper	C

■ Two letters identifying the type of component.

Type	Code
Cable box	BC
Bolted tap-off unit	CB
Fire-barrier	CF
Edgewise and flat zed	CP
Rigid protective cover	CR
Flexible protective cover	CS
Expansion unit	DB
Tap-off unit for Compact NSX	DC
Distribution length for bolt-on tap-off units	EB
Distribution length for plug-in tap-off units	ED
Distribution length for KH plug-in tap-off units	EH
Feed unit for dry-type transformers	EL
Feed unit	ER
Feeder length	ET
End cover	FA
Bolted tap-off unit for fuses	HF
Connection KH/KT	HT
Edgewise elbow	LC
Flat elbow	LP
PER for Prisma**SeT** and Okken interfaces	PE
Tap-off unit with protective device	PL
Tap-off unit with fuse disconnectors	SD
Tap-off unit with switch-disconnector	SE
Tap-off unit with isolator	SL/RL
Edgewise tee	TC
Neutral crossover	TN
Phase crossover	TP
Sealing kit	TT
Connection device	YA
Connection torque nut kit	YB
Flexible bar	YC
Bracket	YE
Insulating sheath	YF
Connection plate	YP
Bar supports	YS
Braids	YT
Supports and fixing devices	ZA
Edgewise zed	ZC
Flat zed	ZP

■ Four digits indicating the rating of the trunking.

■ One digit indicating the trunking polarity

Polarity	PE protective conductor (1)	Short circuit level (1)	Code
3L + PE	Standard	Standard	**3**
3L + N + PE	Standard	Standard	**4**
3L + N + PER	Reinforced	Standard	**5**
3L + N + PER	Reinforced	Reinforced	**7**

(1) For further information, see page 142 "Characteristics".

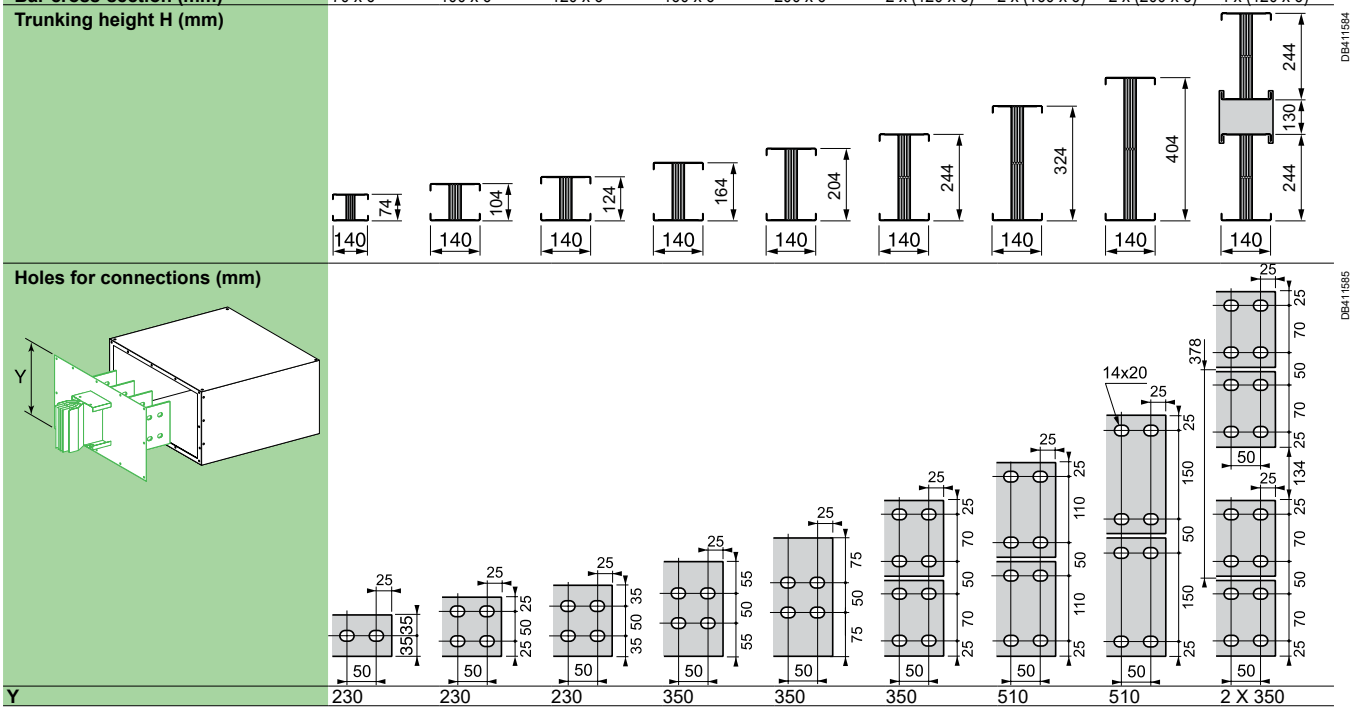
■ Variable number of alphanumeric characters indicating characteristics specific to the component.
See the section dealing with the given component.

■ Fire rated components.

Type	Code
Fire rated straight feeder length	FT
Fire rated edgewise elbow	FC
Fire rated flat elbow	FP
Fire rated connection device	FJ

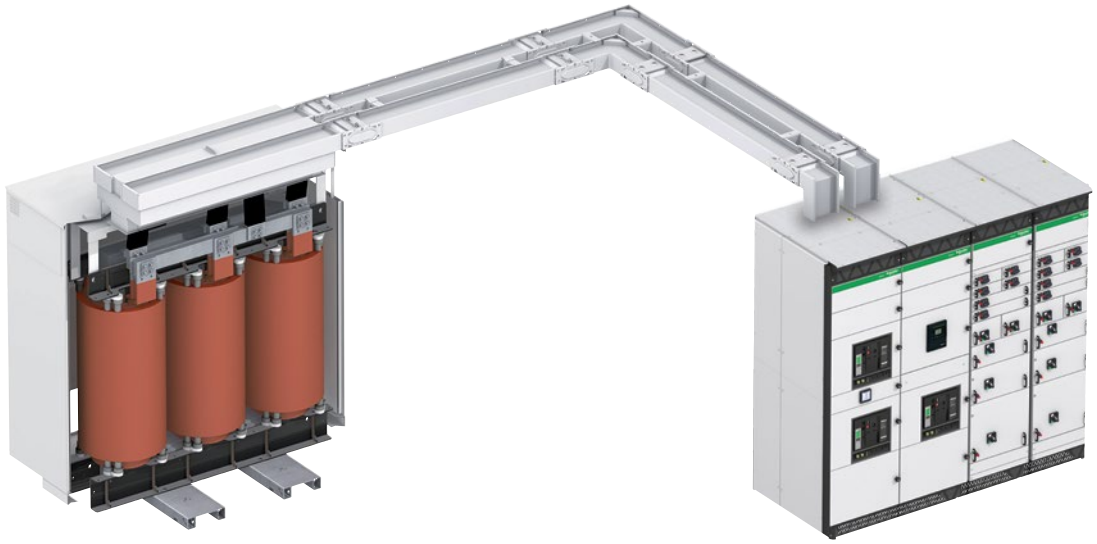
Trunking cross section

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Number of bar jointing bolts	1	1	1	2	2	2	4	4	4
Bar cross-section (mm)	70 x 6	100 x 6	120 x 6	160 x 6	200 x 6	2 x (120 x 6)	2 x (160 x 6)	2 x (200 x 6)	4 x (120 x 6)
Trunking height H (mm)									
Holes for connections (mm)									
Y	230	230	230	350	350	350	510	510	2 X 350



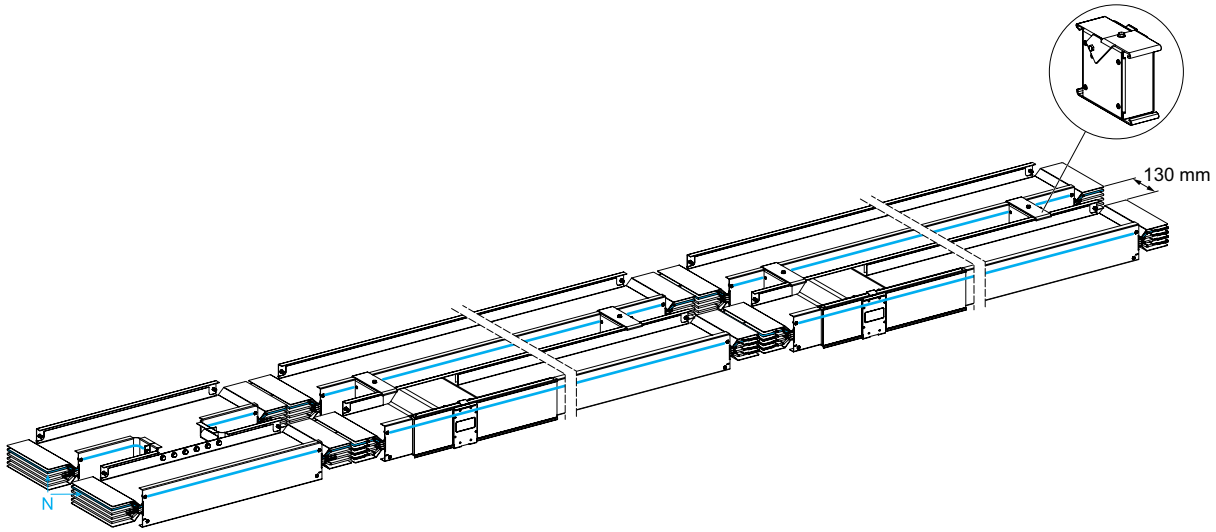
Canalis KTC

DB411146



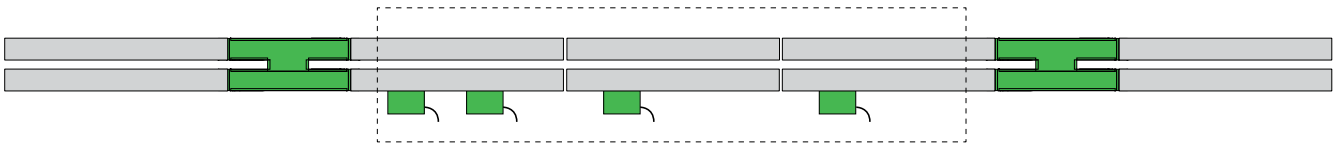
KTC6300 A is made of 2 units KTC3200 A linked together thanks to guide supports GS.
For KTC6300 A ratings contact sales office for quotation.

DB429011



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

DB429012-G



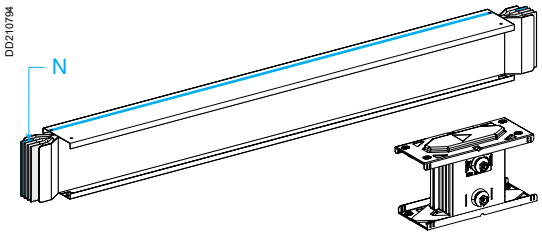
If the total load of a group of tap-off units is above 1600 A, then add bridges (edgewise H units) between the 2 runs.
Bridges have to be placed before and after the group.

Canalis KTC 1000 to 5000

Ordering

Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected component as a technical comment
Example: the catalogue number of an 1000 A feeder length, 3L + N + PE, 2450 mm long, is:
KTC1000ET42C, L = 2450
Rating

ET - Straight feeder lengths

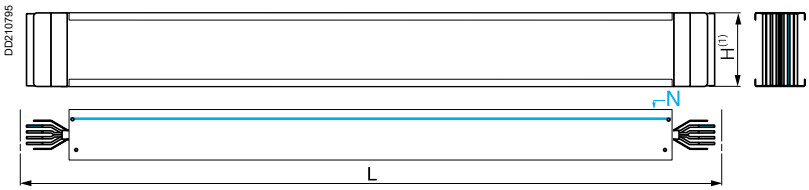


KTC●●●●ET●●●

Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	KTC●●●●ET320	KTC●●●●ET420	KTC●●●●ET520
	4000	KTC●●●●ET340	KTC●●●●ET440	KTC●●●●ET540
Made to measure	500 to 1500	KTC●●●●ET31A	KTC●●●●ET41A	KTC●●●●ET51A
	1501 to 1999	KTC●●●●ET32B	KTC●●●●ET42B	KTC●●●●ET52B
	2001 to 2500	KTC●●●●ET32C	KTC●●●●ET42C	KTC●●●●ET52C
	2501 to 3000	KTC●●●●ET33D	KTC●●●●ET43D	KTC●●●●ET53D
	3001 to 3500	KTC●●●●ET33E	KTC●●●●ET43E	KTC●●●●ET53E
	3501 to 3999	KTC●●●●ET33F	KTC●●●●ET43F	KTC●●●●ET53F

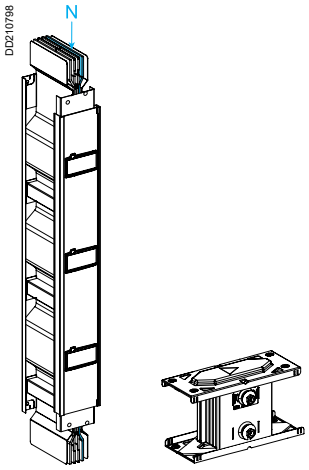
(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●ET5●● by KTC●●●●ET7●●.

KTC●●●●ET●●●

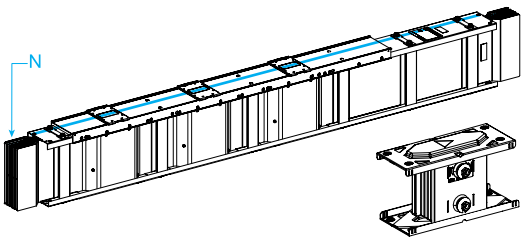


(1) See the "Trunking cross-section" table page 52.

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



KTC●●●●ED●●●●

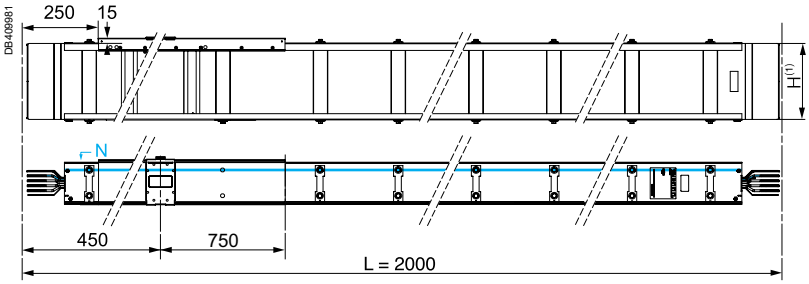


KTC●●●●ED●●●●

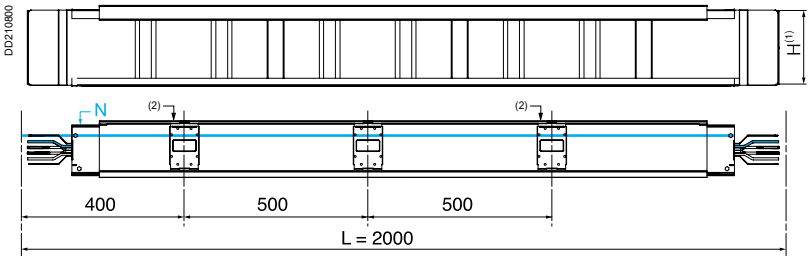
Type	Length "L" (mm)	Number of tap-offs	Cat. no.		
			3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	2000	1	KTC●●●●ED3201	KTC●●●●ED4201	KTC●●●●ED5201
		3	KTC●●●●ED3203	KTC●●●●ED4203	KTC●●●●ED5203
	4000	3	KTC●●●●ED3403	KTC●●●●ED4403	KTC●●●●ED5403
Made to measure	2500 to 3000	1	KTC●●●●ED3301	KTC●●●●ED4301	KTC●●●●ED5301
		2	KTC●●●●ED3302	KTC●●●●ED4302	KTC●●●●ED5302
	3001 to 3500	1	KTC●●●●ED3351	KTC●●●●ED4351	KTC●●●●ED5351
		3	KTC●●●●ED3353	KTC●●●●ED4353	KTC●●●●ED5353

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●ED5●●● by KTC●●●●ED7●●●.
(2) To order the 3L + N + PE 2500 A and 3200 A version with reinforced Isc, replace KTC2500ED4●●● by KTC2500ED6●●● and KTC3200ED4●●● by KTC3200ED6●●●.

KTC●●●●ED●201



KTC●●●●ED●203

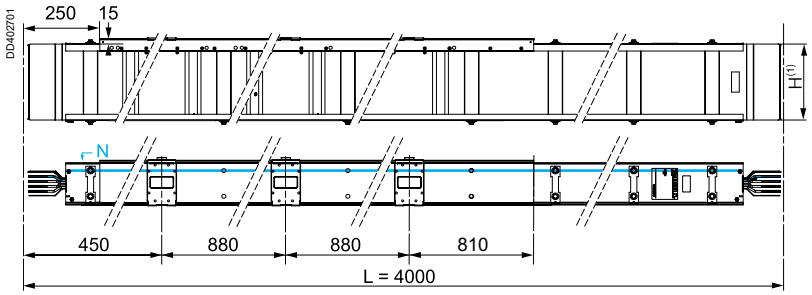


(1) See the "Trunking cross-section" table page 52.
(2) Tap-off units KTB0630●●● can not be installed at this outlet.

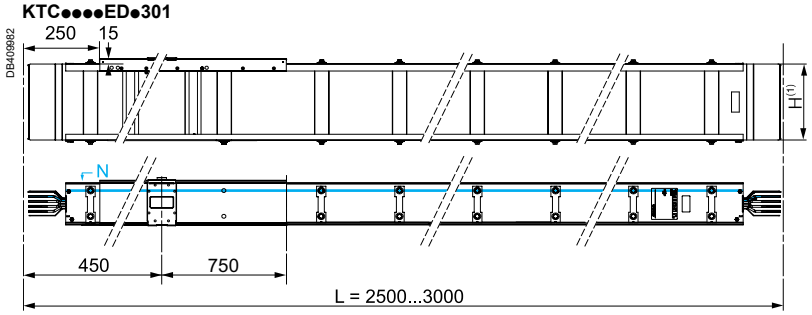
Canalis KTC 1000 to 5000

Straight lengths for KS plug-in tap-off units

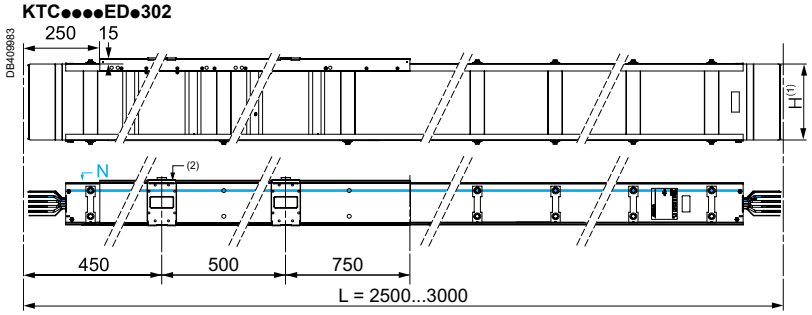
KTC●●●●ED●403



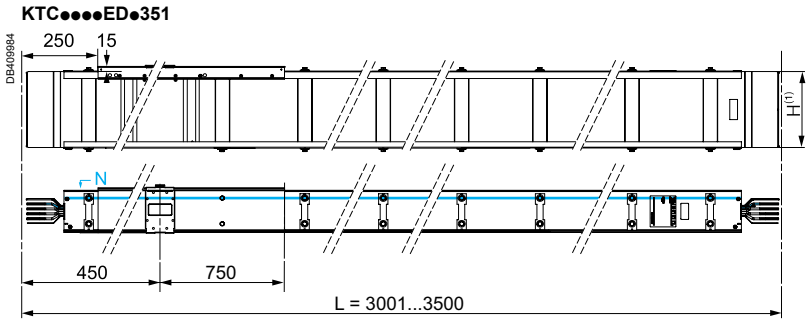
KTC●●●●ED●301



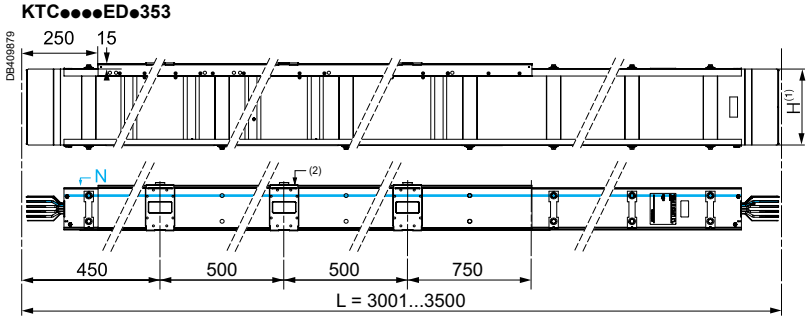
KTC●●●●ED●302



KTC●●●●ED●351



KTC●●●●ED●353

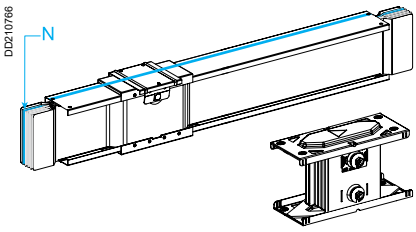


(1) See the "Trunking cross-section" table page 52.
(2) Tap-off units KTB0630●●● can not be installed at this outlet.

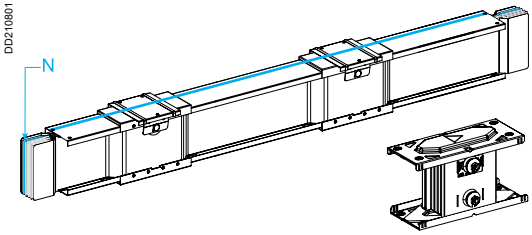
Run components
IP55

Canalis KTC 1000 to 5000

EB - Straight lengths for bolted tap-off units



KTC●●●●EB●20

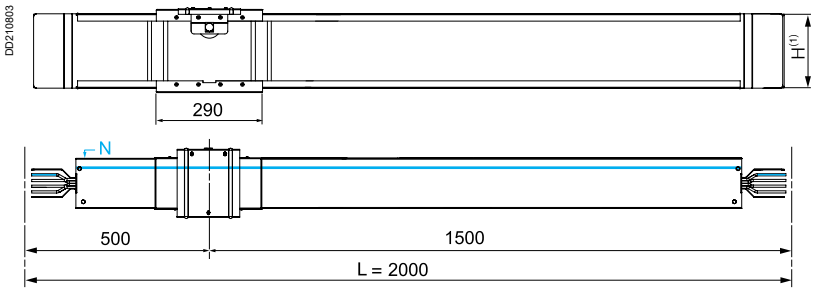


KTC●●●●EB●40

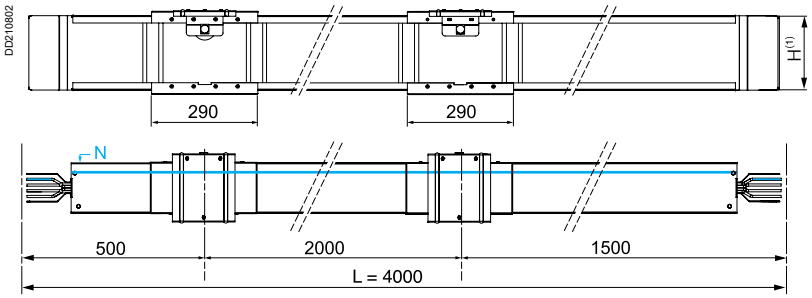
Type	Length "L" (mm)	Number of tap-offs	Cat. no.		
			3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	1	KTC●●●●EB320	KTC●●●●EB420	KTC●●●●EB520
	4000	2	KTC●●●●EB340	KTC●●●●EB440	KTC●●●●EB540

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●EB5●● by KTC●●●●EB7●●.

KTC●●●●EB●20



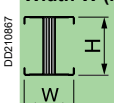
KTC●●●●EB●40

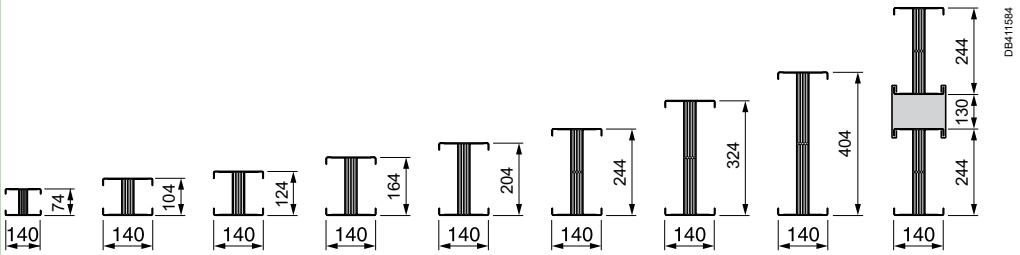


(1) See the "Trunking cross-section" table below.

Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										





Canalis KTC 1000 to 5000

Ordering

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

Example: a transport section 1000 A, length 4 m.
Catalogue number for 3L + N + PE: **KTC1000EH440**.

EH - Straight sections with KH withdrawable tap-off units

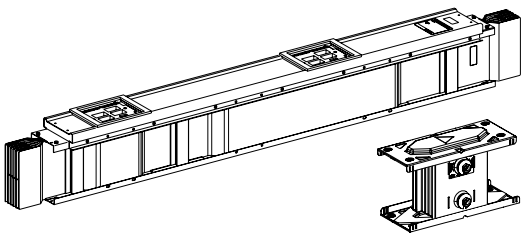
Type	Length "L" (mm)	Number of tap-off units	Cat. no.(3)		
			3L + PE	3L + N + PE	3L + N + PER (2)
Fixed	2000	2	**KTC●●●●EH320**	**KTC●●●●EH420**	**KTC●●●●EH520**
	4000	3	**KTC●●●●EH340**	**KTC●●●●EH440**	**KTC●●●●EH540**

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

(2) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●EH5●● by KTC●●●●EH7●●.

(3) Not available for KTC6300.

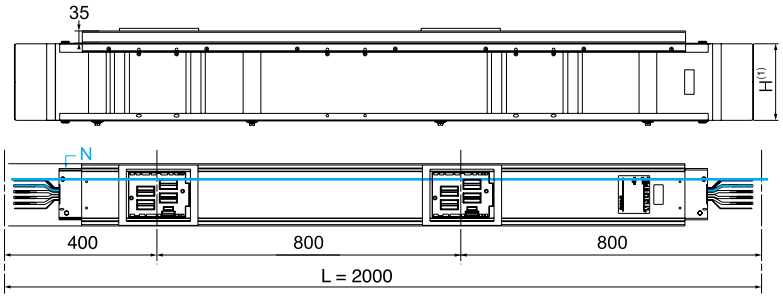
DB402102



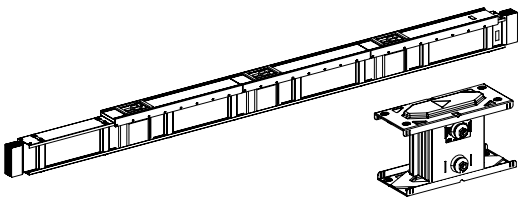
KTC●●●●EH●20

KTC●●●●EH●20

DB402025



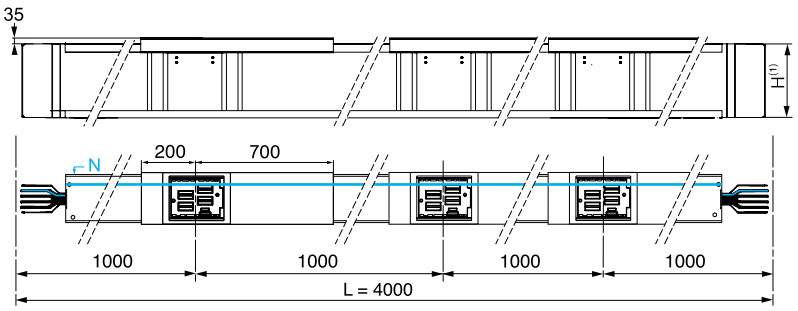
DB406461



KTC●●●●EH●40

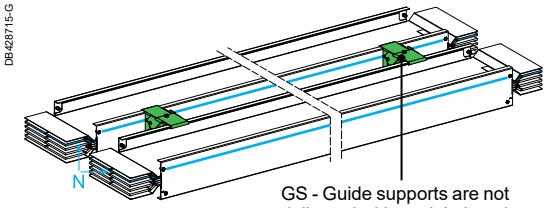
KTC●●●●EH●40

DB402127



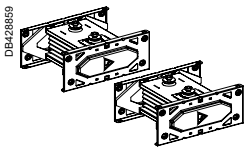
Canalis KTC 6300

ET - Straight feeder lengths



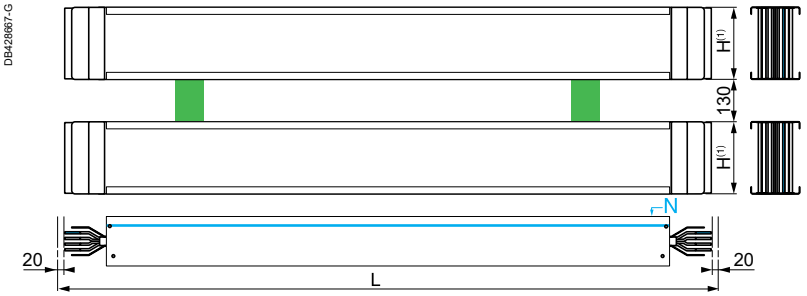
KTC6300ET●●●

GS - Guide supports are not delivered with straight lengths.



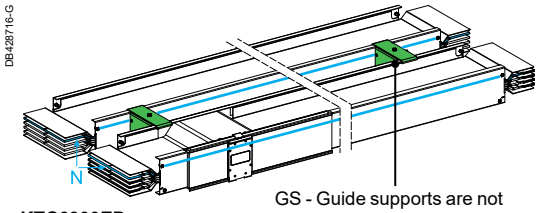
Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	KTC6300ET320	KTC6300ET420	KTC6300ET520
	4000	KTC6300ET340	KTC6300ET440	KTC6300ET540
Made to measure	500 to 1500	KTC6300ET31A	KTC6300ET41A	KTC6300ET51A
	1501 to 1999	KTC6300ET32B	KTC6300ET42B	KTC6300ET52B
	2001 to 2500	KTC6300ET32C	KTC6300ET42C	KTC6300ET52C
	2501 to 3000	KTC6300ET33D	KTC6300ET43D	KTC6300ET53D
	3001 to 3500	KTC6300ET33E	KTC6300ET43E	KTC6300ET53E
	3501 to 3999	KTC6300ET33F	KTC6300ET43F	KTC6300ET53F

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300ET5●● by KTC6300ET7●●.



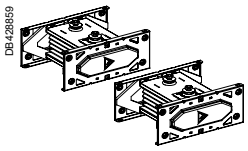
(1) See the "Trunking cross-section" table page 52.

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



KTC6300ED●●●

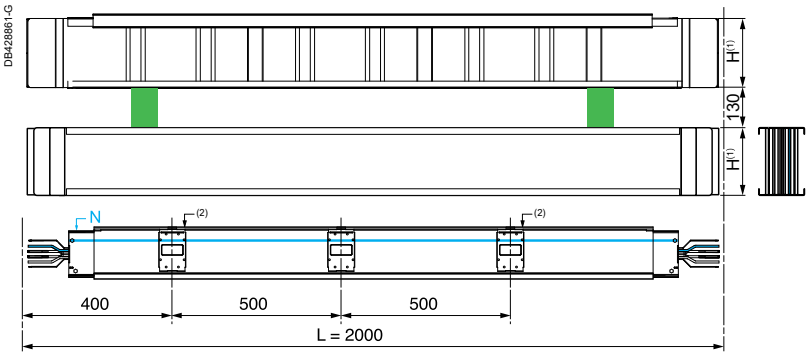
GS - Guide supports are not delivered with straight lengths.



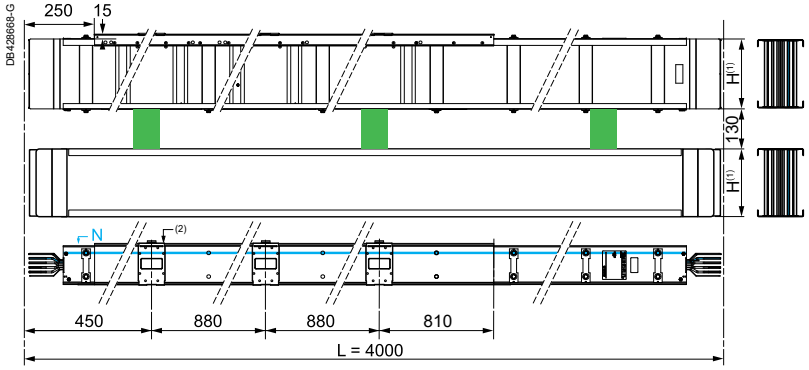
Type	Length "L" (mm)	Number of tap-offs	Cat. no.		
			3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	2000	3	KTC6300ED3203	KTC6300ED4203	KTC6300ED5203
	4000	3	KTC6300ED3403	KTC6300ED4403	KTC6300ED5403

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300ED5●●3 by KTC6300ED7●●3.

KTC●●●●ED●203



KTC●●●●ED●403

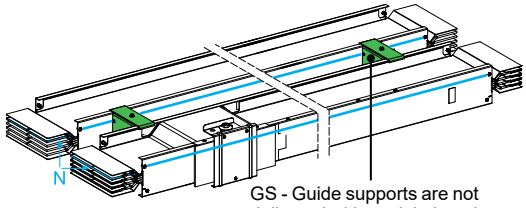


(1) See the "Trunking cross-section" table page 52.
(2) Tap-off units KTB630●●●●●● can not be installed at this outlet.

Canalis KTC 6300

EB - Straight lengths for bolted tap-off units

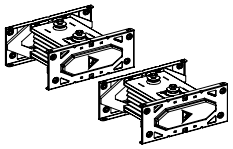
DB428717-G



GS - Guide supports are not delivered with straight lengths.

KTC6300EB●●●

DB428859

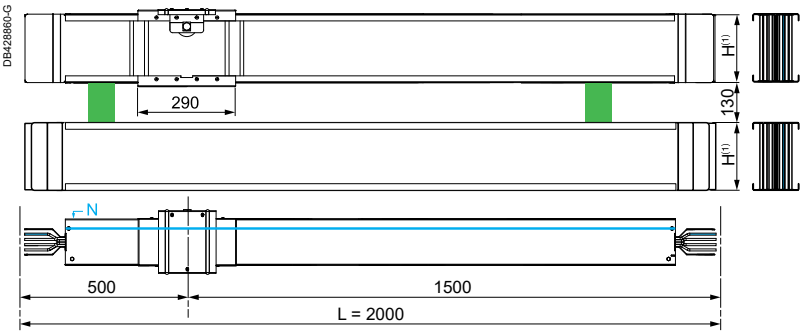


Type	Length "L" (mm)	Number of tap-offs	Cat. no.		
			3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	1	KTC6300EB320	KTC6300EB420	KTC6300EB520
	4000	2	KTC6300EB340	KTC6300EB440	KTC6300EB540

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300EB5●● by KTC6300EB7●●.

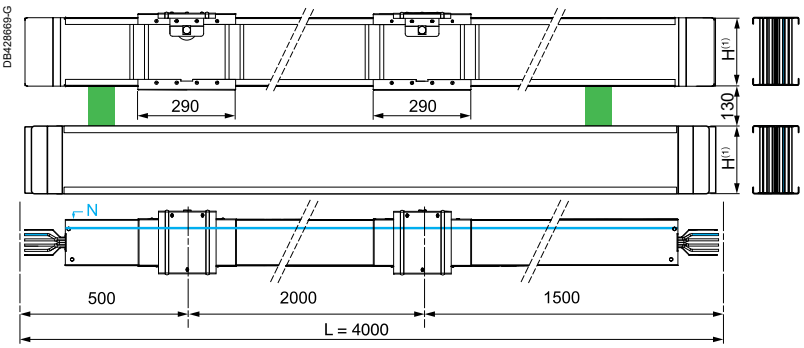
KTC6300EB●20

DB428860-G



KTC6300EB●40

DB428669-G



(1) See the "Trunking cross-section" table page 52.

Canalis KTC 1000 to 5000

Ordering

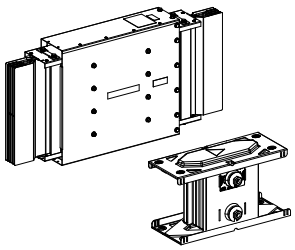
Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 1350 A straight expansion unit, 3L + PE, 1000 mm long, is:
KTC1350DB310

Rating

DB - Straight expansion unit

DB411592



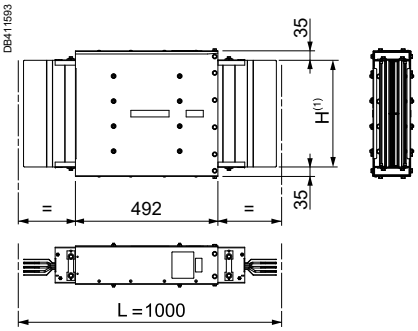
KTC●●●●DB●10

Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	1000	KTC●●●●DB310	KTC●●●●DB410	KTC●●●●DB510

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●DB510 by KTC●●●●DB710.

KTC●●●●DB●10

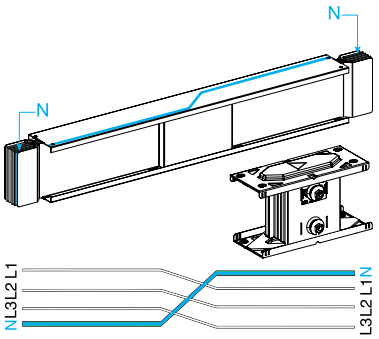
DB411593



(1) See the "Trunking cross-section" table page 58.

TN - Neutral crossover length

DD210807

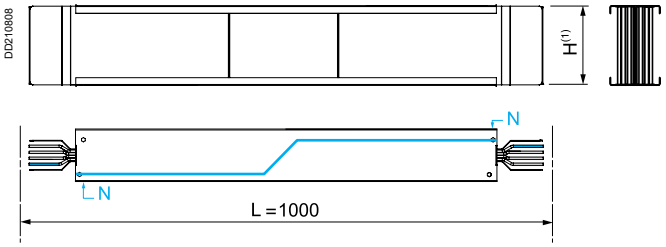


KTC●●●●TN●10

Type	Length "L" (mm)	Cat. no.
		3L + N + PE
Fixed	1000	KTC●●●●TN410

KTC●●●●TN●10

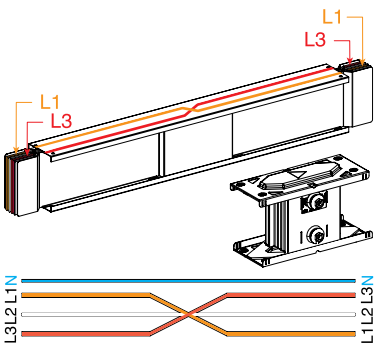
DD210808



(1) See the "Trunking cross-section" table page 58.

TP - Phase crossover length

DD210809

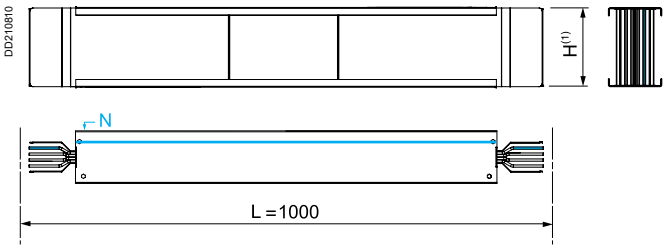


KTC●●●●TP●10

Type	Length "L" (mm)	Cat. no.
		3L + N + PE
Fixed	1000	KTC●●●●TP410

KTC●●●●TP●10

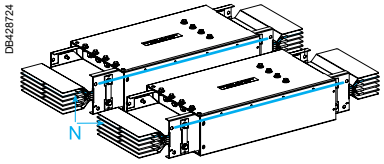
DD210810



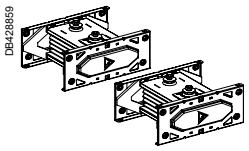
(1) See the "Trunking cross-section" table page 58.

Canalis KTC 6300

DB - Straight expansion unit

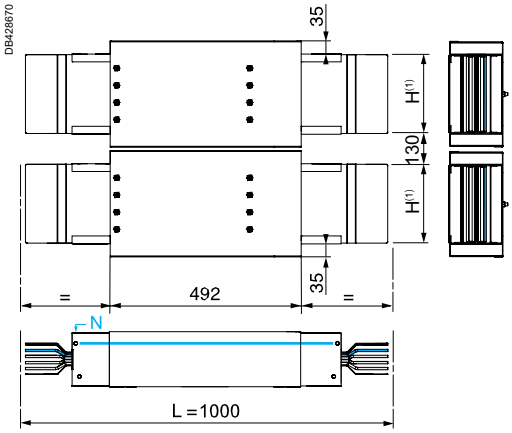


KTC6300DB●10



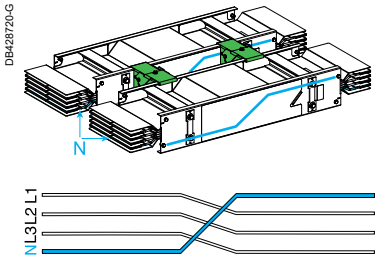
Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	1000	KTC6300DB310	KTC6300DB410	KTC6300DB510

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300DB510 by KTC6300DB710.

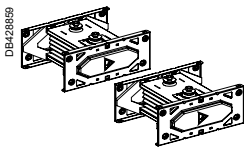


(1) See the "Trunking cross-section" table page 58.

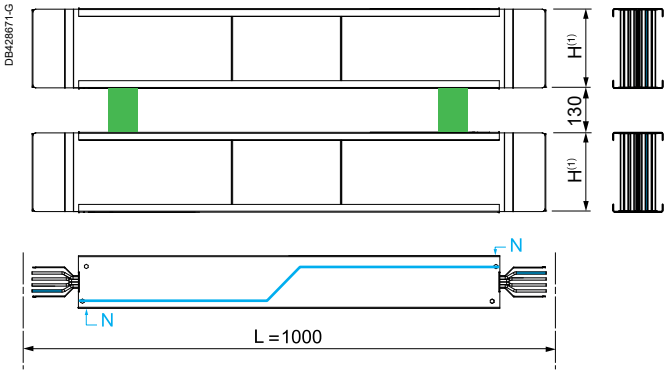
TN - Neutral crossover length



KTC6300TN410

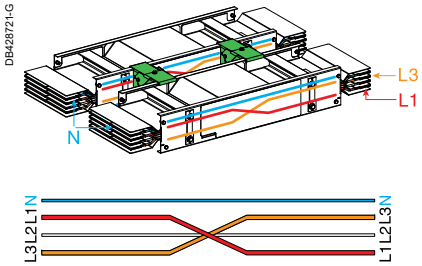


Type	Length "L" (mm)	Cat. no. (1)
		3L + N + PE
Fixed	1000	KTC6300TN410

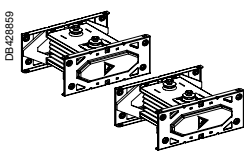


(1) See the "Trunking cross-section" table page 58.

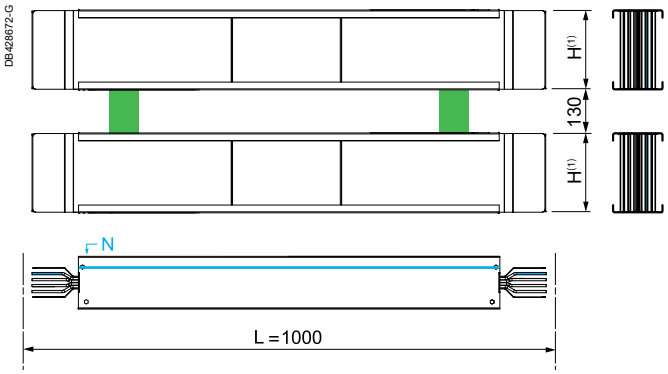
TP - Phase crossover length



KTC6300TP410



Type	Length "L" (mm)	Cat. no. (1)
		3L + N + PE
Fixed	1000	KTC6300TP410

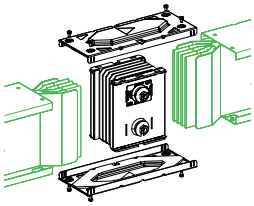


(1) See the "Trunking cross-section" table page 58.

Canalis KTC 1000 to 6300

YA - Additional jointing units

DD210811-G



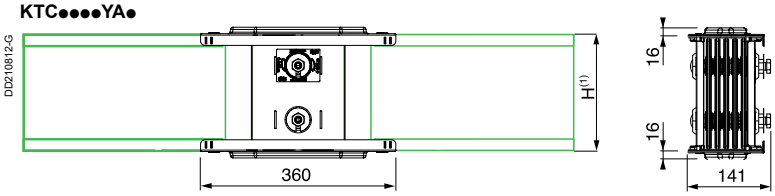
KTC●●●●YA●

Type	Cat. no. (2)			
	3L + PE	3L + N + PE	3L + N + PER	
Version code (1)	3	4	5	7
Jointing unit (3)	KTC●●●●YA3	KTC●●●●YA4	KTC●●●●YA5	KTC●●●●YA7

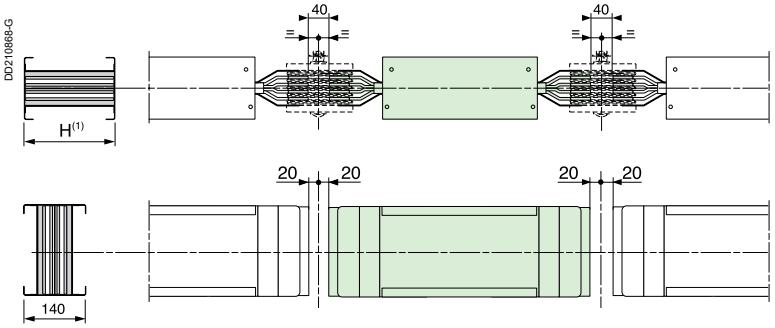
(1) See catalogue-number coding page 48.
(2) References KTC6300YA● are made of 2 references KTC3200YA●.
(3) YA is not applicable for Fire rated busway elements. refer page 71 for fire rated joining units.

KTC●●●●YA●

DD210812-G



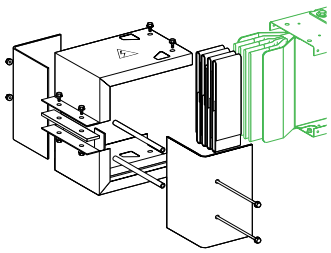
DD210868-G



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

FA - End covers

DD205887-G

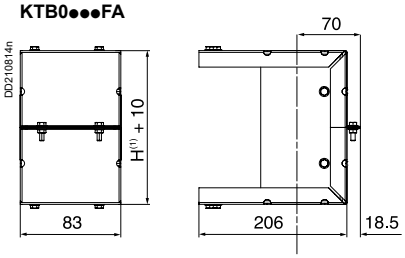


KTB0●●●FA

Type	Rating of the trunking (A)	Height H of the trunking (mm)	Cat. no.
End cover	1000	74	KTB0074FA
	1350	104	KTB0104FA
	1600	124	KTB0124FA
	2000	164	KTB0164FA
	2500	204	KTB0204FA
	3200	244	KTB0244FA
	4000	324	KTB0324FA
	5000	404	KTB0404FA
	6300 (2)	622	KTB0622FA

KTB0●●●FA

DD210814n



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

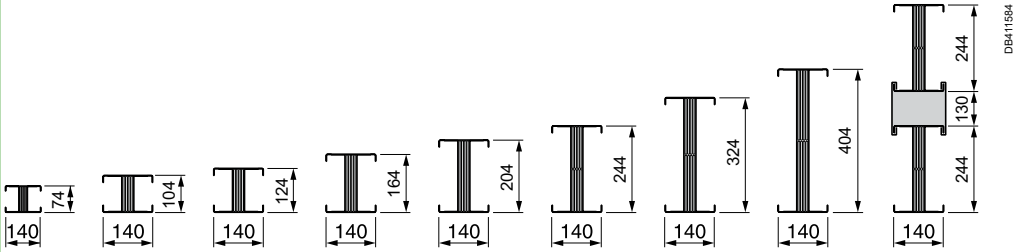
Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										

DD210867



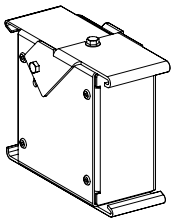
DB411584



Canalis KTC 6300

GS - Guide support

DB428709



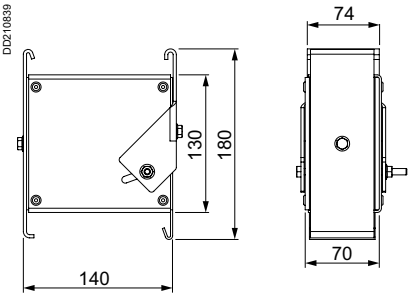
KTC6300GS1

2 guide supports(1) are required to linked all KTC3200 elements together in order to create the KTC6300 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 KTC6300A.

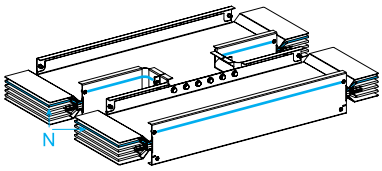
Description	Cat. no.	Weight (kg)
1 guide support	**KTC6300GS1**	0.6

DD210839



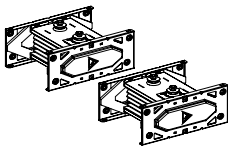
HC - Edgewise H

DB428722



KTC6300HC●10

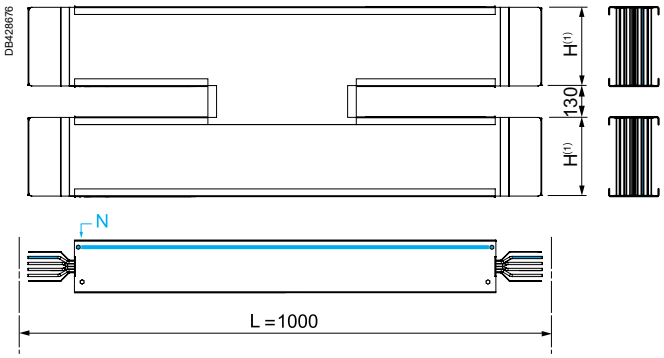
DB428859



Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	1000	**KTC6300HC310**	**KTC6300HC410**	**KTC6300HC510**

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300HC510 by KTC6300HC710.

DB428676



(1) See the "Trunking cross-section" table page 58.

Elbow components for changing direction
IP55

Canalis KTC 1000 to 6300

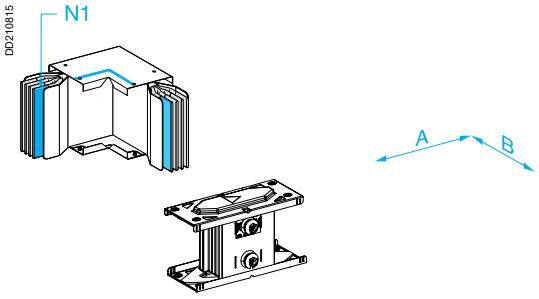
Ordering

Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected unit as a technical comment.

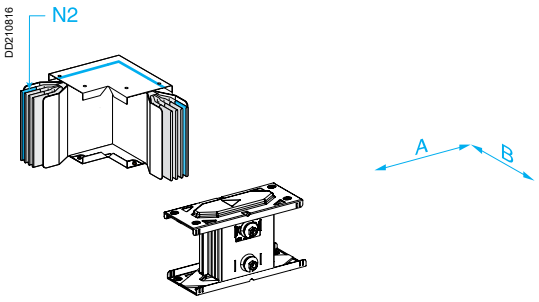
Example: the catalogue number of a 1250 A made to measure end feed unit, N2, 3L + N + PE, 235 mm long and with between centres J, K and M = 170 mm, is:
KTC1350ER42, A = 235, J = 170, K = 170 and M = 170.

Rating

LP - Flat elbows



KTC●●●●LP●●1

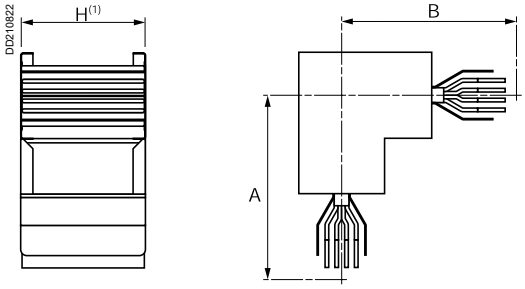


KTC●●●●LP●●2

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	N1	KTC●●●●LP3A1	KTC●●●●LP4A1	KTC●●●●LP5A1
	N2	KTC●●●●LP3A2	KTC●●●●LP4A2	KTC●●●●LP5A2
1 made to measure short branche	N1	KTC●●●●LP3B1	KTC●●●●LP4B1	KTC●●●●LP5B1
	N2	KTC●●●●LP3B2	KTC●●●●LP4B2	KTC●●●●LP5B2
1 made to measure long branche	N1	KTC●●●●LP3D1	KTC●●●●LP4D1	KTC●●●●LP5D1
	N2	KTC●●●●LP3D2	KTC●●●●LP4D2	KTC●●●●LP5D2
2 made to measure branches	N1	KTC●●●●LP3E1	KTC●●●●LP4E1	KTC●●●●LP5E1
	N2	KTC●●●●LP3E2	KTC●●●●LP4E2	KTC●●●●LP5E2

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●LP5●● by KTC●●●●LP7●●.

KTC●●●●LP●●●



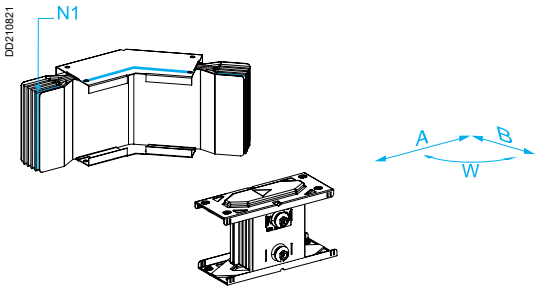
(1) See the "Trunking cross-section" table page 65.

Dimensions

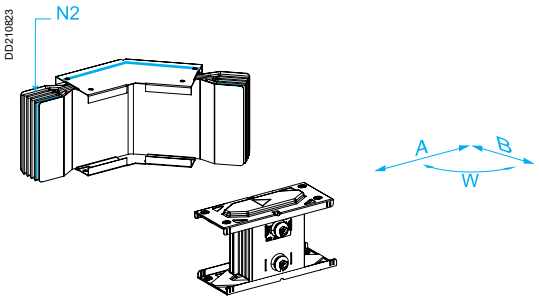
Type	Rating (A)	Dimensions (mm)	
		A	B
2 fixed branches	1000, 1350, 1600, 2000, 2500, 3200, 4000, 5000, 6300	300	300
1 made to measure short branche	1000, 1350, 1600, 2000, 2500, 3200, 4000, 5000, 6300	300	301 to 799
		301 to 799	300
1 made to measure long branche	1000, 1350, 1600	300	800 to 1000
		800 to 1000	300
	2000, 2500, 3200	300	800 to 1100
		800 to 1100	300
	4000, 5000	300	800 to 1400
		800 to 1400	300
	6300	300	800 to 1100
		800 to 1100	300
2 made to measure branches	1000, 1350, 1600	301 to 600	301 to 1000
		301 to 1000	301 to 600
	2000, 2500, 3200	301 to 600	301 to 1100
		301 to 1100	301 to 600
	4000, 5000, 6300	301 to 600	301 to 1400
		301 to 1400	301 to 600
	6300	301 to 600	301 to 1100
		301 to 1100	301 to 600

Canalis KTC 1000 to 5000

LP●C - Flat elbows with made to measure angles



KTC●●●●LP●C1

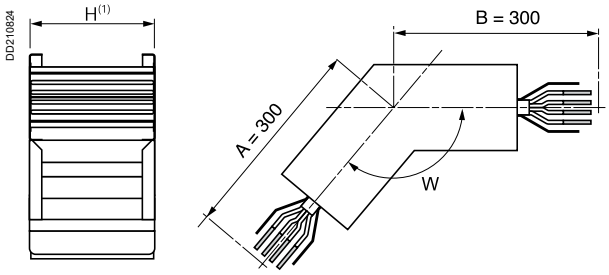


KTC●●●●LP●C2

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure angle	N1	KTC●●●●LP3C1	KTC●●●●LP4C1	KTC●●●●LP5C1
	N2	KTC●●●●LP3C2	KTC●●●●LP4C2	KTC●●●●LP5C2

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●LP5C● by KTC●●●●LP7C●.

KTC●●●●LP●C●

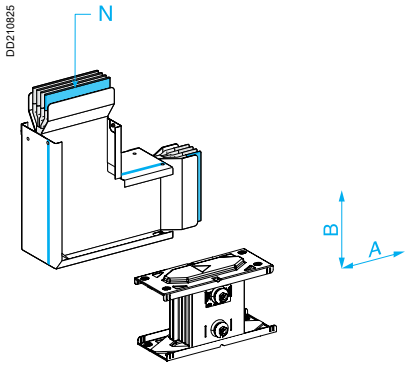


(1) See the "Trunking cross-section" table page 65.

Dimensions

Type	Rating (A)	Dimensions (mm)		
		A	B	W
Made to measure	All	300	300	91° to 179°

LC - Edgewise elbows

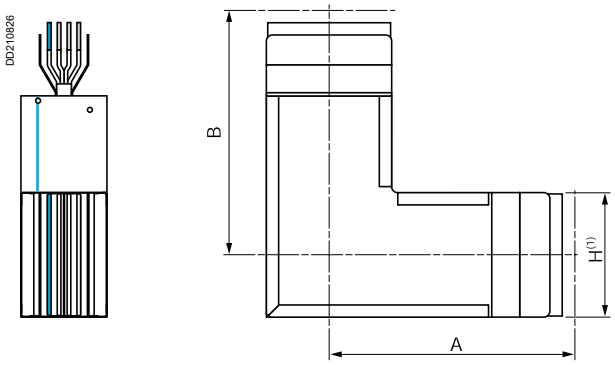


KTC●●●●LC●●

Type	Cat. no.		
	3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	KTC●●●●LC3A	KTC●●●●LC4A	KTC●●●●LC5A
1 made to measure short branche	KTC●●●●LC3B	KTC●●●●LC4B	KTC●●●●LC5B
1 made to measure long branche	KTC●●●●LC3D	KTC●●●●LC4D	KTC●●●●LC5D
2 made to measure branches	KTC●●●●LC3E	KTC●●●●LC4E	KTC●●●●LC5E

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●LC5● by KTC●●●●LC7●.

KTC●●●●LC●●

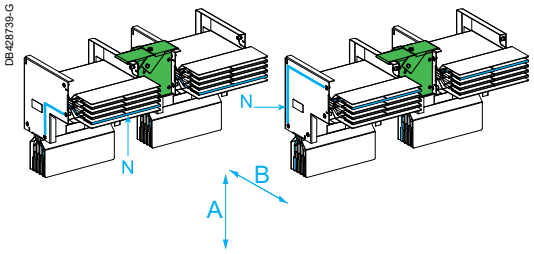


(1) See the "Trunking cross-section" table page 65 and dimensions page 64.

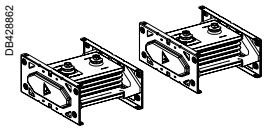
Elbow components for changing direction
IP55

Canalis KTC 6300

LP - Elbows



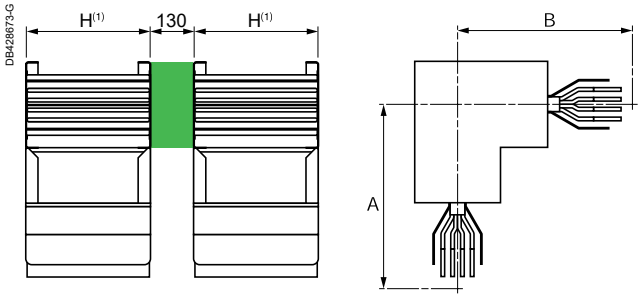
KTC6300LP●●1 KTC6300LP●●2



Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	N1	KTC6300LP3A1	KTC6300LP4A1	KTC6300LP5A1
	N2	KTC6300LP3A2	KTC6300LP4A2	KTC6300LP5A2
1 made to measure short branche	N1	KTC6300LP3B1	KTC6300LP4B1	KTC6300LP5B1
	N2	KTC6300LP3B2	KTC6300LP4B2	KTC6300LP5B2
1 made to measure long branche	N1	KTC6300LP3D1	KTC6300LP4D1	KTC6300LP5D1
	N2	KTC6300LP3D2	KTC6300LP4D2	KTC6300LP5D2
2 made to measure branches	N1	KTC6300LP3E1	KTC6300LP4E1	KTC6300LP5E1
	N2	KTC6300LP3E2	KTC6300LP4E2	KTC6300LP5E2

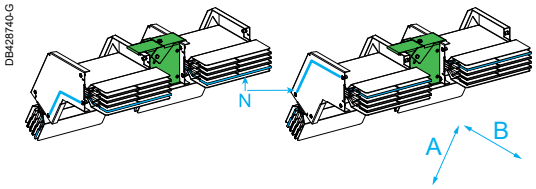
(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300LP5●● by KTC6300LP7●●.

2 x KTC3200LP●●●

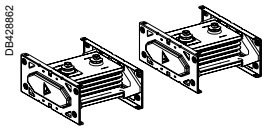


(1) See the "Trunking cross-section" table page 65 and dimensions page 60.

LP●C - Flat elbows with made to measure angles



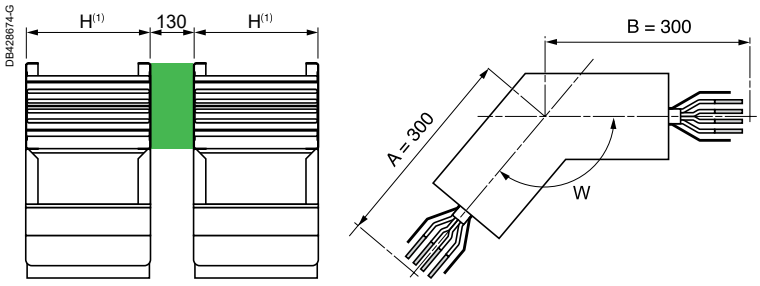
KTC6300LP●C1 KTC6300LP●C2



Type	Position of neutral	Cat. no. (2)		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure angle	N1	KTC6300LP3C1	KTC6300LP4C1	KTC6300LP5C1
	N2	KTC6300LP3C2	KTC6300LP4C2	KTC6300LP5C2

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300LP5C● by KTC6300LP7C●.

2 x KTC3200LP●●●



(1) See the "Trunking cross-section" table page 65.

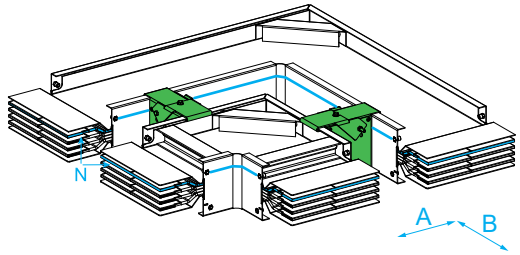
Dimensions

Rating (A)	Dimensions (mm)		
	A	B	W
6300	300	300	91° to 179°

Canalis KTC 6300

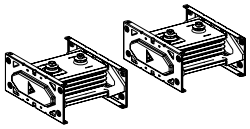
LC - Edgewise elbows

DB428741-G



KTC6300LC●●●

DB428862

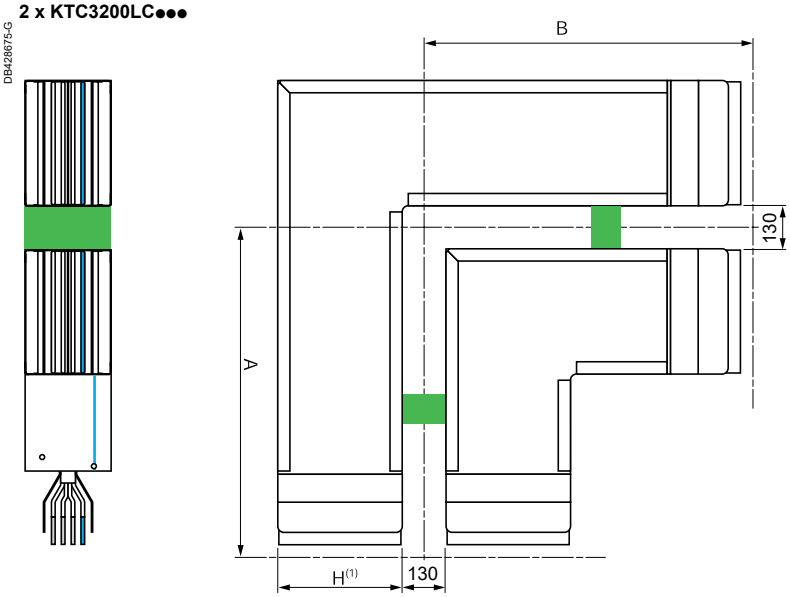


Type	Cat. no. (2)		
	3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	KTC6300LC3A	KTC6300LC4A	KTC6300LC5A
1 made to measure short branche	KTC6300LC3B	KTC6300LC4B	KTC6300LC5B

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300LC5● by KTC6300LC7●.

2 x KTC3200LC●●●

DB428675-G



(1) See the "Trunking cross-section" table page 65 and dimensions page 64.

Elbow components for changing direction
IP55

Canalis KTC 1000 to 6300

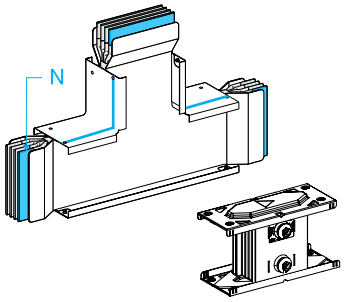
Dimensions

Type	Rating (A)	Dimensions (mm)	
		A	B
2 fixed branches	1000	275	275
	1350	290	290
	1600	300	300
	2000	320	320
	2500	340	340
	3200	360	360
	4000	400	400
	5000	440	440
	6300	548	548
1 made to measure short branche	1000	275	276 to 774
		276 to 774	275
	1350	290	291 to 789
		291 to 789	290
	1600	300	301 to 799
		301 to 799	300
	2000	320	321 to 819
		321 to 819	320
	2500	340	341 to 839
		341 to 839	340
	3200	360	361 to 859
		361 to 859	360
	4000	400	401 to 899
		401 to 899	400
	5000	440	441 to 939
		441 to 939	440
	6300	548	549 to 1047
		549 to 1047	548
1 made to measure long branche	1000	275	775 to 1000
		775 to 1000	275
	1350	290	790 to 1000
		790 to 1000	290
	1600	300	800 to 1000
		800 to 1000	300
	2000	320	820 to 1100
		820 to 1100	320
	2500	340	840 to 1100
		840 to 1100	340
	3200	360	860 to 1100
		860 to 1100	360
	4000	400	900 to 1400
		900 to 1400	400
	5000	440	940 to 1400
		940 to 1400	440
2 made to measure branches	1000	276 to 745	276 to 1000
		276 to 1000	276 to 745
	1350	291 to 730	291 to 1000
		291 to 1000	291 to 730
	1600	301 to 720	301 to 1000
		301 to 1000	301 to 720
	2000	321 to 700	321 to 1100
		321 to 1100	321 to 700
	2500	341 to 680	341 to 1100
		341 to 1100	341 to 680
	3200	361 to 660	361 to 1100
		361 to 1100	361 to 660
	4000	401 to 620	401 to 1400
		401 to 1400	401 to 620
	5000	441 to 580	441 to 1400
		441 to 1400	441 to 580

Canalis KTC 1000 to 5000

TC - Edgewise tee

DD210819



KTC●●●●TC●

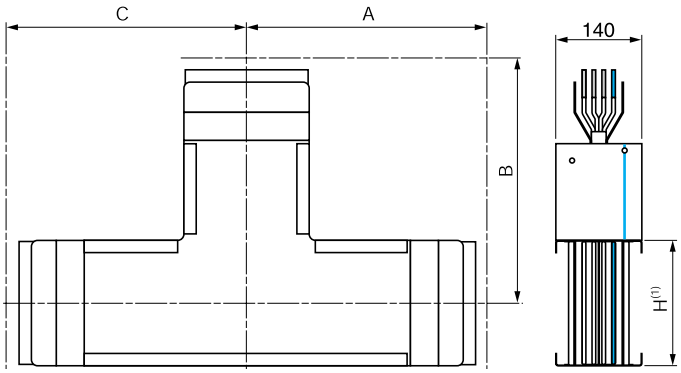
Type	Cat. no. (2)		
	3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	KTC●●●●TC3	KTC●●●●TC4	KTC●●●●TC5

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●TC5 by KTC●●●●TC7.

(2) Not available for KTC6300.

KTC●●●●TC●

DD210820



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

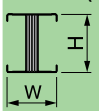
Dimensions

Type	Rating (A)	Dimensions (mm)		
		A	B	C
Fixed	1000	275	275	275
	1350	290	290	290
	1600	300	300	300
	2000	320	320	320
	2500	340	340	340
	3200	360	360	360
	4000	400	400	400
	5000	440	440	440

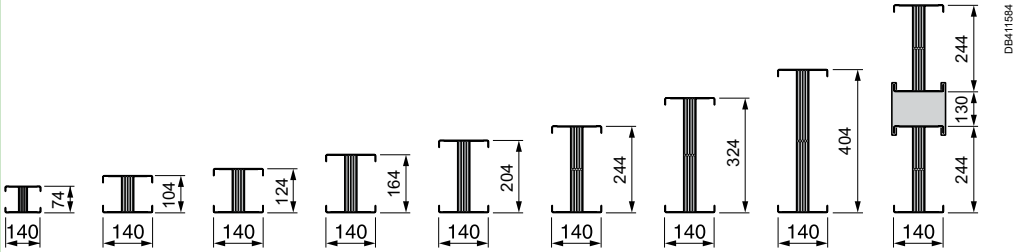
Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										

DD210867



DB411584



Zed components for changing direction
IP55

Canalis KTC 1000 to 5000

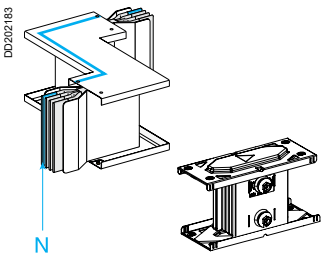
Ordering

Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ 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:
KTC1600ZC42, A = 300, B = 450, C = 300.

Rating

ZP - Flat zed units



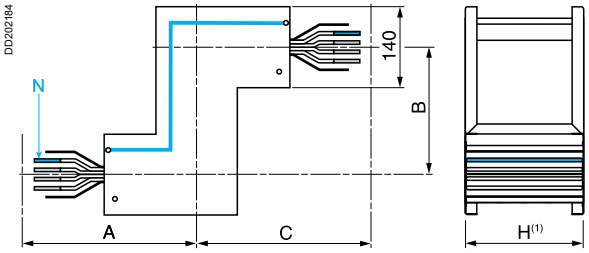


KTC●●●●ZP●

Type	Cat. no.		
	3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	KTC●●●●ZP3	KTC●●●●ZP4	KTC●●●●ZP5

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●ZP5 by KTC●●●●ZP7.

KTC●●●●ZP●

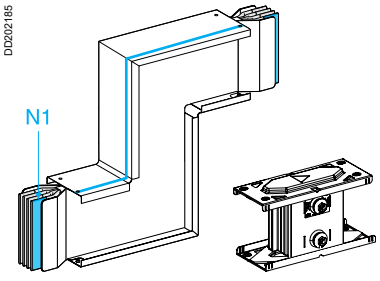


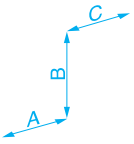
(1) See the "Trunking cross-section" page 68.

Dimensions

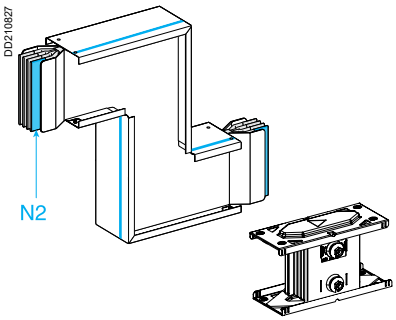
Rating (A)	Dimensions (mm)		
	A	B	C
All	300	130 to 599	300

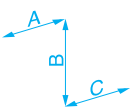
ZC - Edgewise zed units





KTC●●●●ZC●1



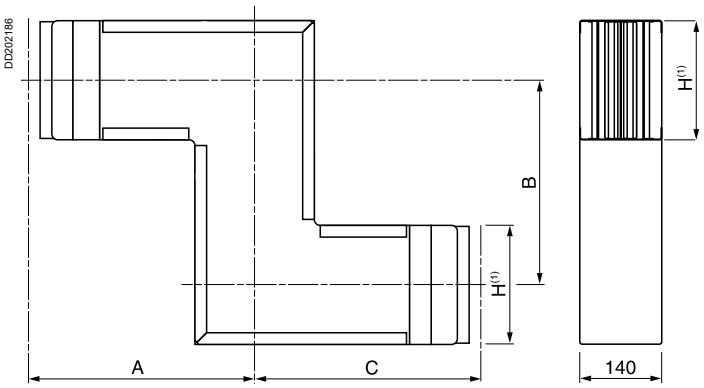


KTC●●●●ZC●2

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC●●●●ZC31	KTC●●●●ZC41	KTC●●●●ZC51
	N2	KTC●●●●ZC32	KTC●●●●ZC42	KTC●●●●ZC52

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●ZC5● by KTC●●●●ZC7●.

KTC●●●●ZC●●



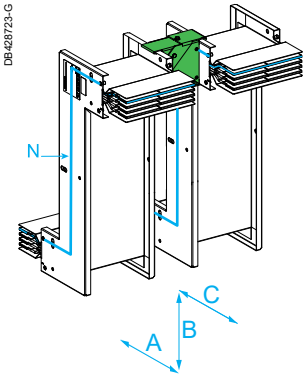
(1) See the "Trunking cross-section" page 68.

Dimensions

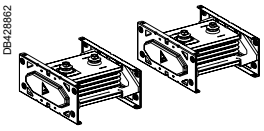
Rating (A)	Dimensions (mm)		
	A	B	C
1000	275	90 to 549	275
1350	290	90 to 579	290
1600	300	90 to 599	300
2000	320	90 to 639	320
2500	340	90 to 679	340
3200	360	90 to 719	360
4000	400	90 to 799	400
5000	440	90 to 879	440

Canalis KTC 6300

ZP - Flat zed units

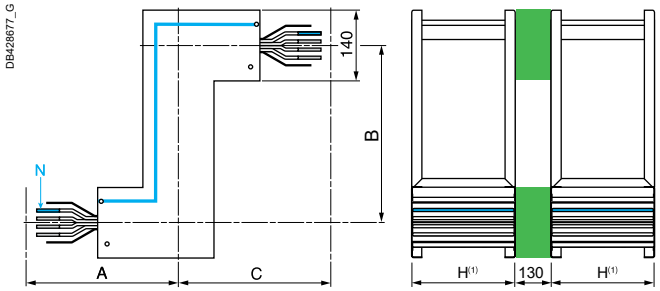


KTC6300ZP●



Type	Cat. no.		
	3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	KTC6300ZP3	KTC6300ZP4	KTC6300ZP5

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300ZP5 by KTC6300ZP7.

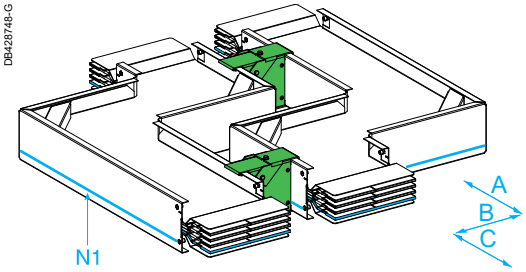


(1) See the "Trunking cross-section" page 68.

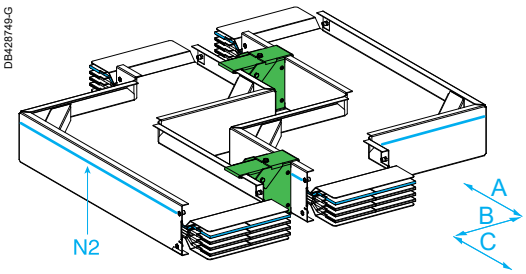
Dimensions

Rating (A)	Dimensions (mm)		
	A	B	C
6300	300	130 to 599	300

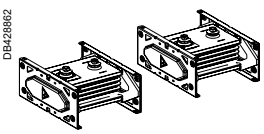
ZC - Edgewise zed units



KTC6300ZC●1

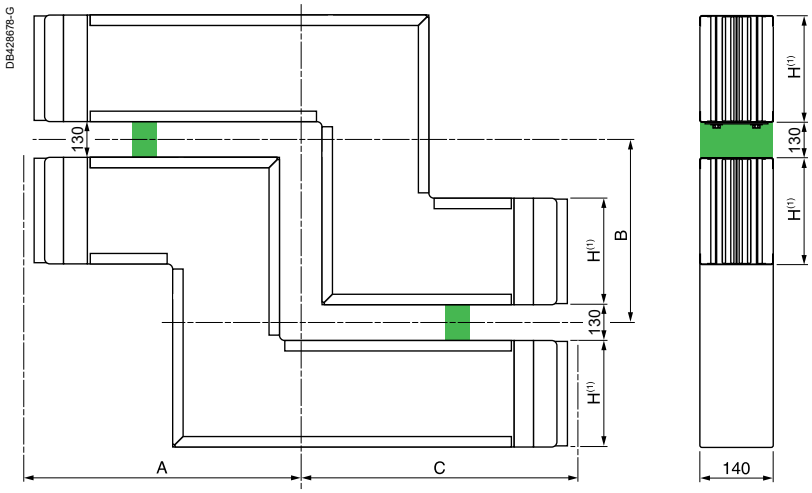


KTC6300ZC●2



Type	Position of neutral	Cat. no. (2)		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC6300ZC31	KTC6300ZC41	KTC6300ZC51
	N2	KTC6300ZC32	KTC6300ZC42	KTC6300ZC52

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300ZC5● by KTC6300ZC7●.



(1) See the "Trunking cross-section" page 68.

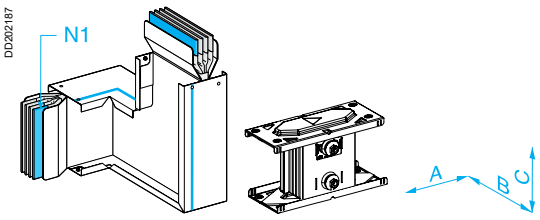
Dimensions

Rating (A)	Dimensions (mm)		
	A	B	C
6300	548	90 to 719	548

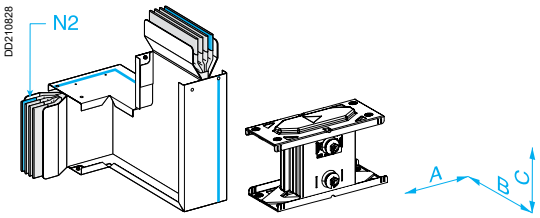
Zed components for changing direction
IP55

Canalis KTC 1000 to 5000

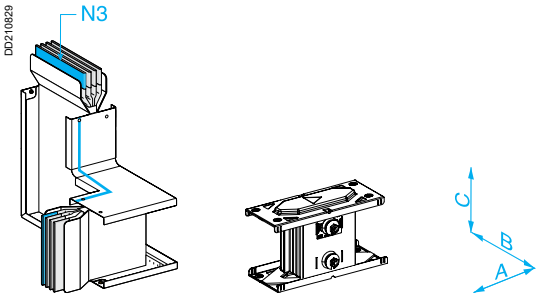
CP - Edgewise and flat zed units



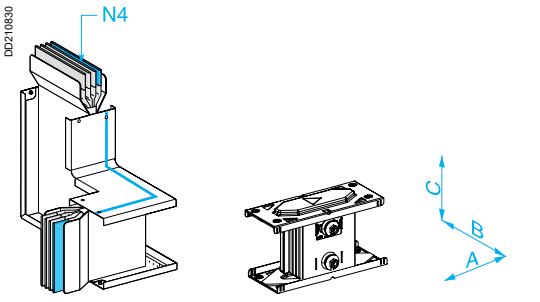
KTC●●●●CP●1



KTC●●●●CP●2



KTC●●●●CP●3

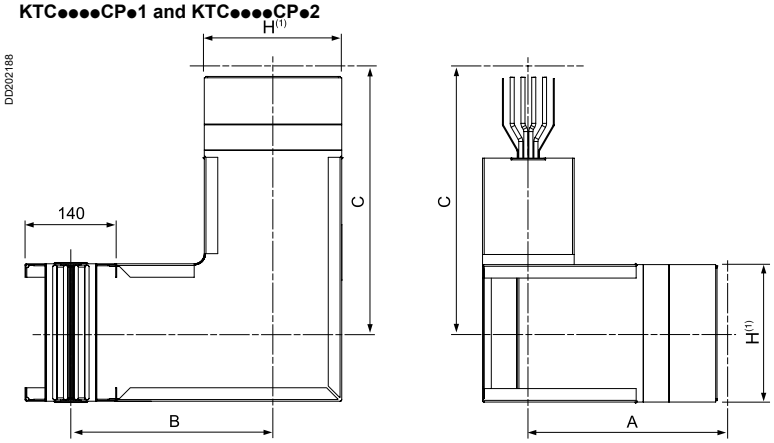


KTC●●●●CP●4

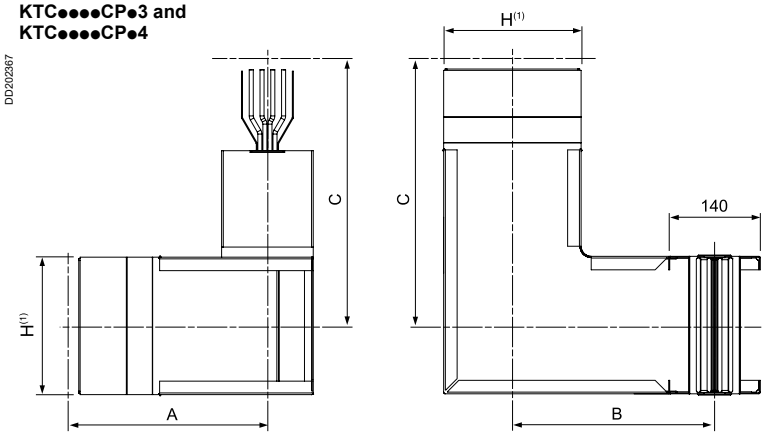
Type	Position of neutral	Cat. no. (2)		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC●●●●CP31	KTC●●●●CP41	KTC●●●●CP51
	N2	KTC●●●●CP32	KTC●●●●CP42	KTC●●●●CP52
	N3	KTC●●●●CP33	KTC●●●●CP43	KTC●●●●CP53
	N4	KTC●●●●CP34	KTC●●●●CP44	KTC●●●●CP54

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●CP5● by KTC●●●●CP7●.
(2) References KTC6300CP●● are made of 2 references KTC3200CP●●.
See details page 69.

KTC●●●●CP●1 and KTC●●●●CP●2



KTC●●●●CP●3 and KTC●●●●CP●4



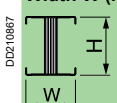
Dimensions

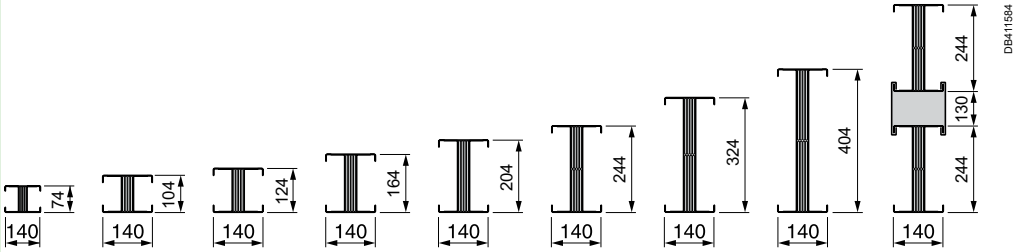
Rating (A)	Dimensions (mm)		
	A	B	C
1000	300	195 to 574	275
1350	300	210 to 589	290
1600	300	220 to 599	300
2000	300	240 to 619	320
2500	300	260 to 639	340
3200	300	280 to 659	360
4000	300	320 to 699	400
5000	300	360 to 739	440

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

Trunking cross-section

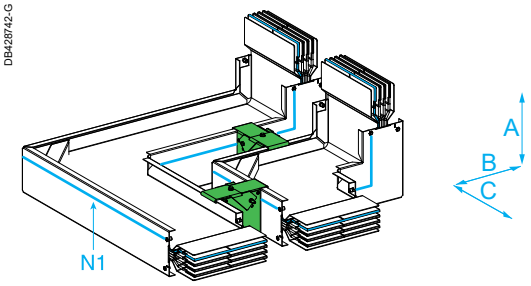
Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										



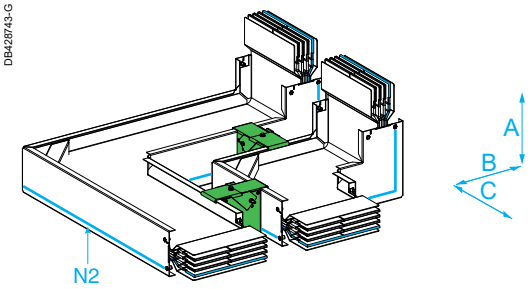


Canalis KTC 6300

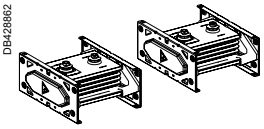
CP - Edgewise and flat zed units



KTC6300CP●1

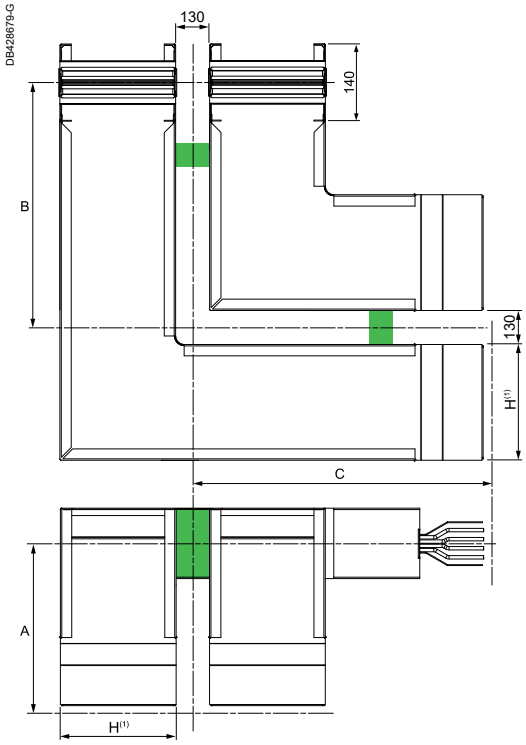


KTC6300CP●2



Type	Position of neutral	Cat. no. (2)		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC6300CP31	KTC6300CP41	KTC6300CP51
	N2	KTC6300CP32	KTC6300CP42	KTC6300CP52
	N3	KTC6300CP33	KTC6300CP43	KTC6300CP53
	N4	KTC6300CP34	KTC6300CP44	KTC6300CP54

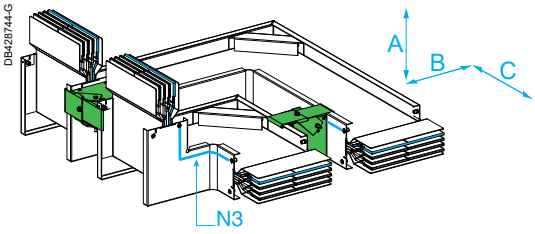
(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300CP5● by KTC6300CP7●.



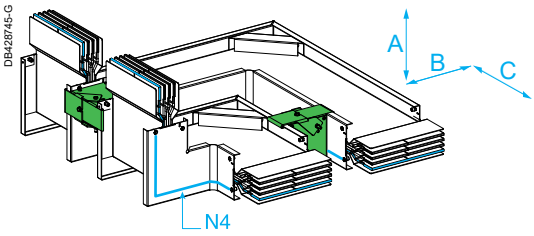
(1) See the "Trunking cross-section" page 68.

Dimensions

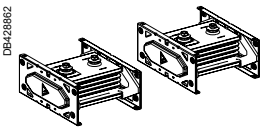
Rating (A)	Dimensions (mm)		
	A	B	C
6300	300	468 to 847	548

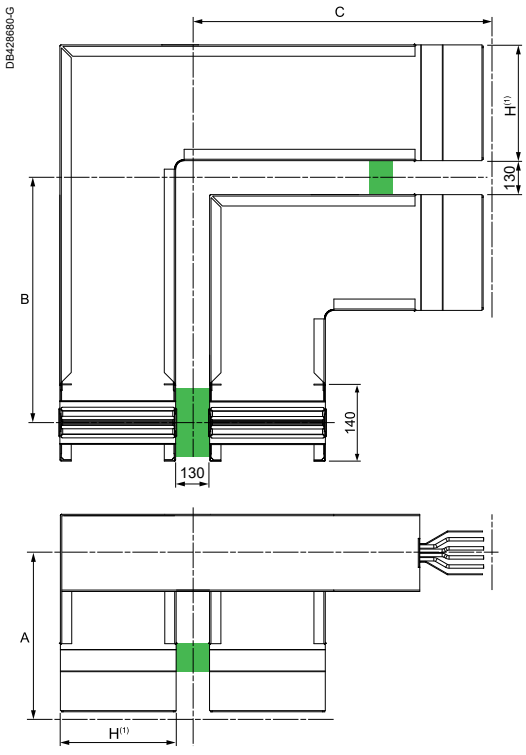


KTC6300CP●3



KTC6300CP●4



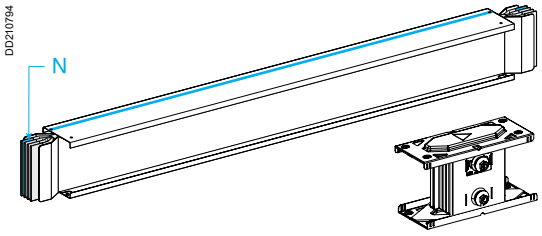


Fire rated straight feeder lengths
IP55
Compliant with the IEC 60331
Canalis KTC 1000 to 5000

Ordering

Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected component as a technical comment
Example: the catalogue number of an 1000 A feeder length, 3L + N + PE, 2450 mm long, is:
KTC1000FT42C, L = 2450
Rating

FT - Fire rated straight feeder lengths

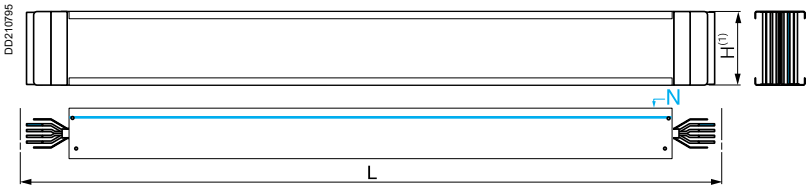


KTC●●●●FT●●●

Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	KTC●●●●FT320	KTC●●●●FT420	KTC●●●●FT520
	4000	KTC●●●●FT340	KTC●●●●FT440	KTC●●●●FT540
Made to measure	500 to 1500	KTC●●●●FT31A	KTC●●●●FT41A	KTC●●●●FT51A
	1501 to 1999	KTC●●●●FT32B	KTC●●●●FT42B	KTC●●●●FT52B
	2001 to 2500	KTC●●●●FT32C	KTC●●●●FT42C	KTC●●●●FT52C
	2501 to 3000	KTC●●●●FT33D	KTC●●●●FT43D	KTC●●●●FT53D
	3001 to 3500	KTC●●●●FT33E	KTC●●●●FT43E	KTC●●●●FT53E
	3501 to 3999	KTC●●●●FT33F	KTC●●●●FT43F	KTC●●●●FT53F

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●FT5●● by KTC●●●●FT7●●.

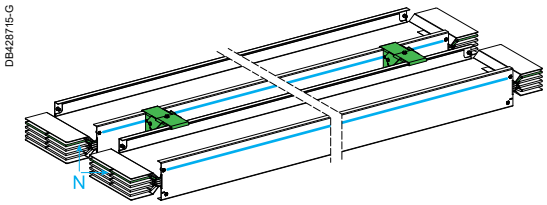
KTC●●●●FT●●●



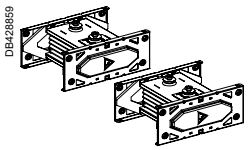
(1) See the "Trunking cross-section" table page 68.

Canalis KTC 6300

FT - Fire rated straight feeder lengths

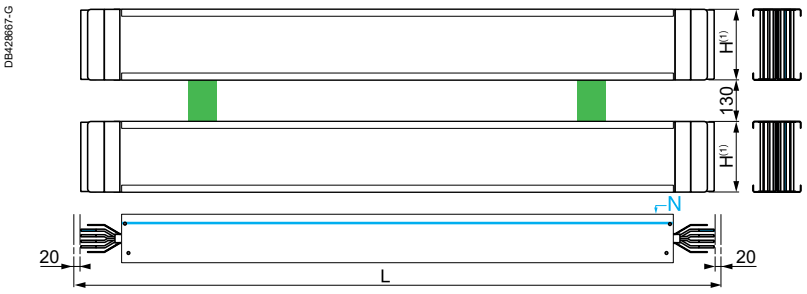


KTC6300FT●●●



Type	Length "L" (mm)	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	KTC6300FT320	KTC6300FT420	KTC6300FT520
	4000	KTC6300FT340	KTC6300FT440	KTC6300FT540
Made to measure	500 to 1500	KTC6300FT31A	KTC6300FT41A	KTC6300FT51A
	1501 to 1999	KTC6300FT32B	KTC6300FT42B	KTC6300FT52B
	2001 to 2500	KTC6300FT32C	KTC6300FT42C	KTC6300FT52C
	2501 to 3000	KTC6300FT33D	KTC6300FT43D	KTC6300FT53D
	3001 to 3500	KTC6300FT33E	KTC6300FT43E	KTC6300FT53E
	3501 to 3999	KTC6300FT33F	KTC6300FT43F	KTC6300FT53F

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300FT5●● by KTC6300FT7●●.

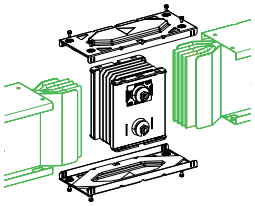


(1) See the "Trunking cross-section" table page 68.

Canalis KTC 1000 to 6300

FJ - Additional fire rated jointing units

DD210811-G



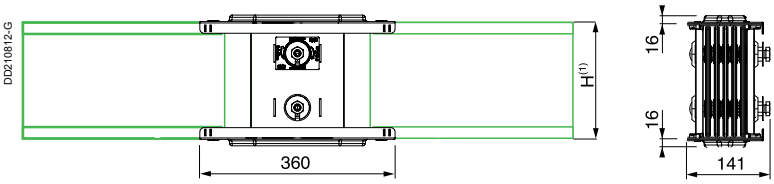
KTC●●●●FJ●

Type	Cat. no. (2)			
	3L + PE	3L + N + PE	3L + N + PER	
Version code (1)	3	4	5	7
Jointing unit	KTC●●●●FJ3	KTC●●●●FJ4	KTC●●●●FJ5	KTC●●●●FJ7

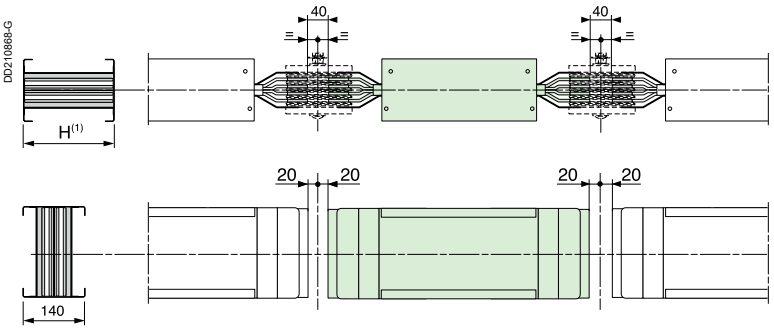
(1) See catalogue-number coding page 48.
(2) References KTC6300FJ● are made of 2 references KTC3200FJ●.

KTC●●●●FJ●

DD210812-G



DD210868-G

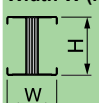


(1) See the "Trunking cross-section" table below.

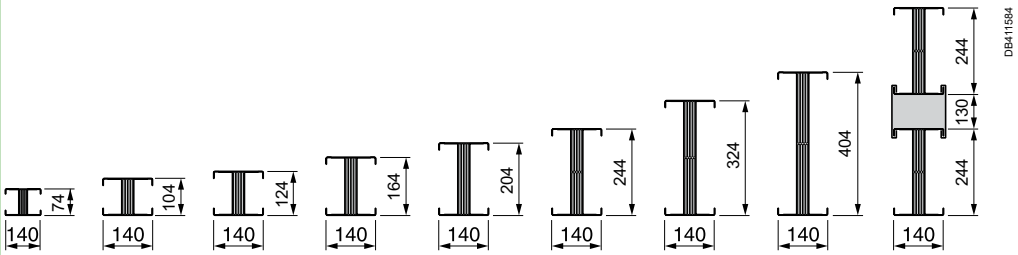
Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										

DD210867



DB411584



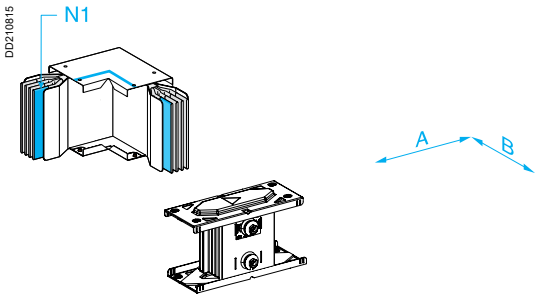
Fire rated flat elbows
IP55
Compliant with the IEC 60331
Canalis KTC 1000 to 5000

Ordering

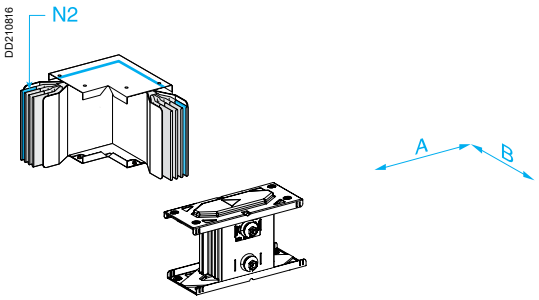
Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 2000 A flat elbow, N1, 3L + N + PE with dimensions A = 300 mm and B = 650 mm is:
KTC2000FP4B1, A = 300, B = 650.
Rating

FP - Fire rated flat elbows



KTC●●●●FP●●1

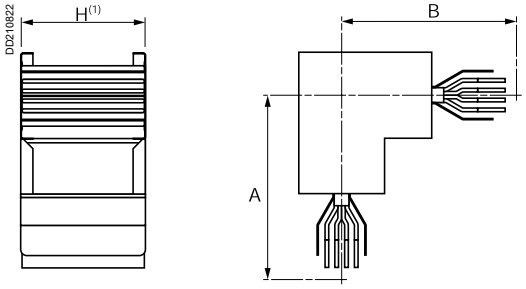


KTC●●●●FP●●2

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	N1	KTC●●●●FP3A1	KTC●●●●FP4A1	KTC●●●●FP5A1
	N2	KTC●●●●FP3A2	KTC●●●●FP4A2	KTC●●●●FP5A2
1 made to measure short branche	N1	KTC●●●●FP3B1	KTC●●●●FP4B1	KTC●●●●FP5B1
	N2	KTC●●●●FP3B2	KTC●●●●FP4B2	KTC●●●●FP5B2
1 made to measure long branche	N1	KTC●●●●FP3D1	KTC●●●●FP4D1	KTC●●●●FP5D1
	N2	KTC●●●●FP3D2	KTC●●●●FP4D2	KTC●●●●FP5D2
2 made to measure branches	N1	KTC●●●●FP3E1	KTC●●●●FP4E1	KTC●●●●FP5E1
	N2	KTC●●●●FP3E2	KTC●●●●FP4E2	KTC●●●●FP5E2

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●FP5●● by KTC●●●●FP7●●.

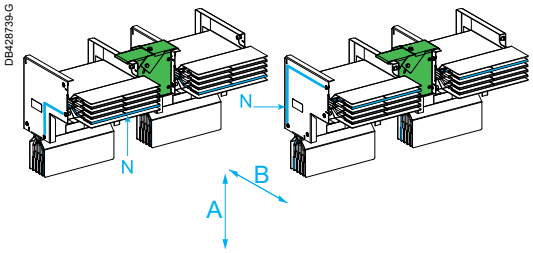
KTC●●●●FP●●●



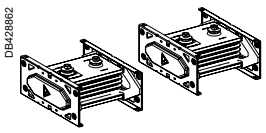
(1) See the "Trunking cross-section" table page 68 and dimensions page 64.

Canalis KTC 6300

FP - Fire rated flat elbows



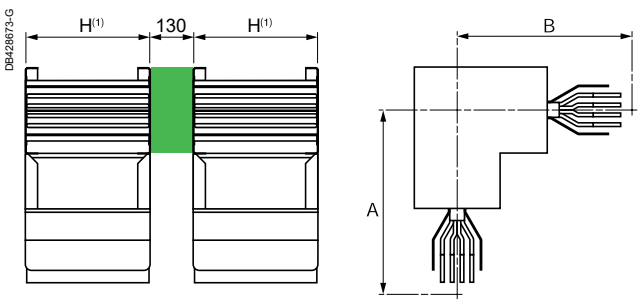
KTC6300FP●●1 **KTC6300FP●●2**



Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	N1	KTC6300FP3A1	KTC6300FP4A1	KTC6300FP5A1
	N2	KTC6300FP3A2	KTC6300FP4A2	KTC6300FP5A2
1 made to measure short branche	N1	KTC6300FP3B1	KTC6300FP4B1	KTC6300FP5B1
	N2	KTC6300FP3B2	KTC6300FP4B2	KTC6300FP5B2
1 made to measure long branche	N1	KTC6300FP3D1	KTC6300FP4D1	KTC6300FP5D1
	N2	KTC6300FP3D2	KTC6300FP4D2	KTC6300FP5D2
2 made to measure branches	N1	KTC6300FP3E1	KTC6300FP4E1	KTC6300FP5E1
	N2	KTC6300FP3E2	KTC6300FP4E2	KTC6300FP5E2

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300FP5●● by KTC6300FP7●●.

2 x KTC3200FP●●●



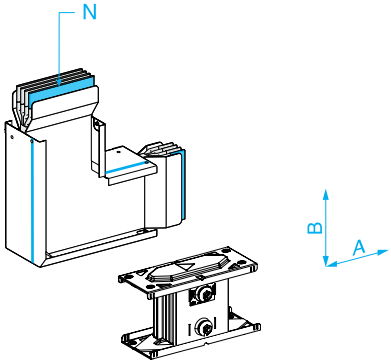
(1) See the "Trunking cross-section" table page 68 and dimensions page 64.

Catalogue numbers and dimensions
Fire rated edgewise elbows
IP55
Compliant with the IEC 60331

Canalis KTC 1000 to 5000

FC - Fire rated edgewise elbows

DD210825



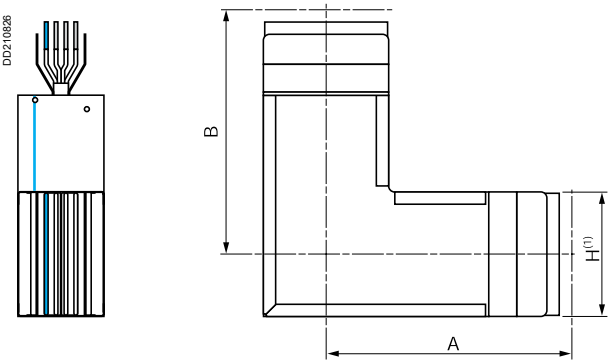
KTC●●●●FC●●

Type	Cat. no.		
	3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	KTC●●●●FC3A	KTC●●●●FC4A	KTC●●●●FC5A
1 made to measure short branche	KTC●●●●FC3B	KTC●●●●FC4B	KTC●●●●FC5B
1 made to measure long branche	KTC●●●●FC3D	KTC●●●●FC4D	KTC●●●●FC5D
2 made to measure branches	KTC●●●●FC3E	KTC●●●●FC4E	KTC●●●●FC5E

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●FC5● by KTC●●●●FC7●.

KTC●●●●FC●●

DD210826

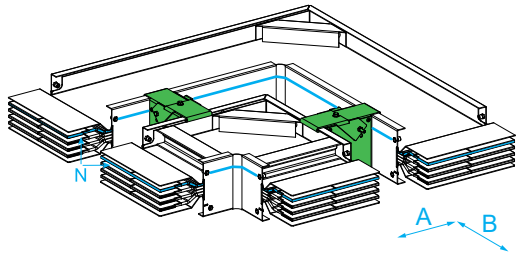


(1) See the "Trunking cross-section" table page 68 and dimensions page 64.

Canalis KTC 6300

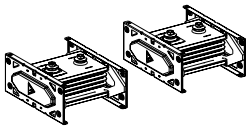
FC - Fire rated edgewise elbows

DB428741-G



KTC6300FC●●●

DB428862

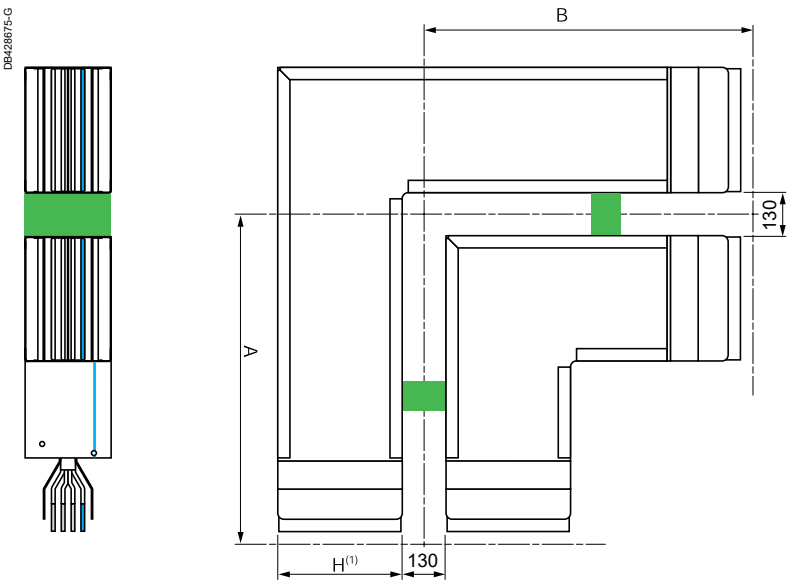


Type	Cat. no. (2)		
	3L + PE	3L + N + PE	3L + N + PER (1)
2 fixed branches	KTC6300FC3A	KTC6300FC4A	KTC6300FC5A
1 made to measure short branche	KTC6300FC3B	KTC6300FC4B	KTC6300FC5B

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300FC5● by KTC6300FC7●.

2 x KTC3200FC●●●

DB428675-G



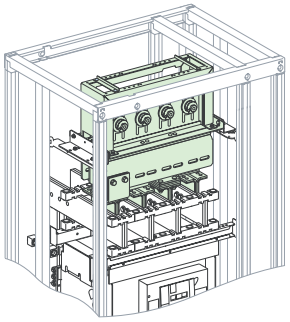
(1) See the "Trunking cross-section" table page 68 and dimensions page 64.

Canalis interfaces for Prisma**SeT** LV switchboard

Canalis KTC 1000 to 6300

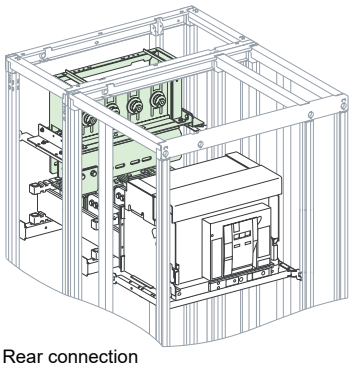
Interfaces for Masterpact MTZ2/NW circuit breakers

DD202304-G



Top direct connection

DD202305-G



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 product, in this case replace the radical KTB by LVS to find the correct reference eg. **LVS04715**.
- for MTZ3/NW63 in this case replace the radical KTB by LVMZ to find the correct reference e.g. **LVMZ1207.**

All accessories are only available as Prisma or Okken references.

All mounting instruction or other documents will be found by using the reference without **LVS** radical.

Circuit breaker	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
				Top direct	Rear	
MTZ2/ NW 08/16	Fixed or drawout	3L+PE	3P	■	■	**KTB04715**
		3L+N+PE	4P	■	■	**KTB04716**
		3L+N+PER	4P	■	■	**KTB04716+KTB0164PE1**
MTZ2/ NW 20/25	Fixed or drawout	3L+PE	3P	■	■	**KTB04725**
		3L+N+PE	4P	■	■	**KTB04726**
		3L+N+PER	4P	■	■	**KTB04726+KTB0244PE1**
MTZ2/ NW 32	Fixed or drawout	3L+PE	3P	■	■	**KTB04735**
		3L+N+PE	4P	■	■	**KTB04736**
		3L+N+PER	4P	■	■	**KTB04736+KTB0404PE1**
MTZ2/ NW 40	Fixed or drawout	3L+PE	3P		■	**KTB04737**
		3L+N+PE	4P		■	**KTB04738**
		3L+N+PER	4P		■	**KTB04738+KTB0404PE1**
MTZ3/ NW 40b-63	Drawout	3L+PE	3P	■		**KTB1207**
		3L+N+PE	4P	■		**KTB1208**
		3L+N+PER	4P	■		**KTB1208+KTB0622PE1**

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)
MTZ2/NW 08/16	Top direct	Fixed or drawout	27
	Rear	Fixed	16
		Drawout	17
MTZ2/NW 20/32	Top direct	Fixed or drawout	28
	Rear	Fixed	16
		Drawout	17
MTZ2/NW 40	Rear	Fixed or drawout	36
MTZ3/NW 40b-63	Top direct	Drawout	38

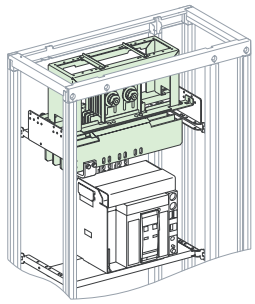
(1) 1 module = 50 mm.

Canalis interfaces for Prisma**SeT** LV switchboard

Canalis KTC 1000 to 6300

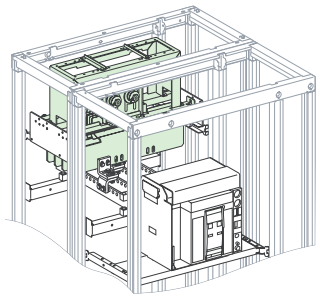
Interfaces for Masterpact MTZ1/NT and Compact NS circuit breakers

DD202306-G



Top direct connection

DD202307-G



Rear connection

Masterpact MTZ1/NT

Circuit breaker	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
				Top direct	Rear	
MTZ1/NT 06/12	Fixed or drawout	3L+PE	3P	■	■	**KTB04703**
		3L+N+PE	4P	■	■	**KTB04704**
		3L+N+PER	4P	■	■	**KTB04704+KTB0164PE1**
MTZ1/NT 16	Fixed or drawout	3L+PE	3P		■	**KTB04703**
		3L+N+PE	4P		■	**KTB04704**
		3L+N+PER	4P		■	**KTB04704+KTB0164PE1**

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

Compact NS

Circuit breaker	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
				Top direct	Rear	
NS630b/ 1250	Fixed or drawout	3L+PE	3P	■	■	**KTB04703**
		3L+N+PE	4P	■	■	**KTB04704**
		3L+N+PER	4P	■	■	**KTB04704+KTB0164PE1**
NS1600	Fixed or drawout	3L+PE	3P		■	**KTB04703**
		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)
MTZ1/NT 06/12 NS630b/1250	Top direct	Fixed	17
		Drawout	18
	Rear	Fixed or drawout	16
MTZ1/NT 16 NS1600	Rear	Fixed or drawout	16

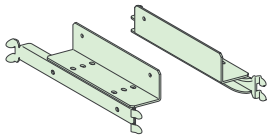
(1) 1 module = 50 mm.

Canalis interfaces for Prisma**SeT** LV switchboard

Canalis KTC 1000 to 6300

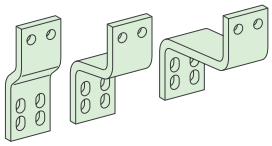
Interface supports and protection covers

DD202308-G



LVS03561

DD202309-G



LVS04711
LVS04712
LVS04713
LVS04714

Masterpact MTZ2/NW

Circuit breaker	Type of circuit breaker	Connection	Supports	Terminal extension bar supports	Cover
MTZ2/NW 08/32	Fixed or drawout	Top direct	**LVS03561**	**3 x LVS04694**	**LVS04871 + LVS04861**
		Rear	**LVS03561**	**2 x LVS04694**	**LVS04871 + LVS04863**
MTZ2/NW 40	Fixed or drawout	Top direct	**LVS03561**	**-**	**LVS04871 + LVS04861**
		Rear	**LVS03561**	**-**	**LVS04871 + LVS04863**
MTZ3/NW 40b-63	Drawout	Top direct	**LVS04739**	**-**	**-**

Masterpact MTZ1/NT

Circuit breaker	Type of circuit breaker	Canalis polarity	Connection	Supports	Canalis/ circuit breaker connection	Cover
MTZ1/NT 06/12	Fixed or drawout	3P	Top direct	**LVS03561**	**LVS04712**	**LVS04871 + LVS04852**
			Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04853**
		4P	Top direct	**LVS03561**	**LVS04712**	**LVS04871 + LVS04852**
			Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04853**
MTZ1/NT 16	Fixed or drawout	3P	Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04854**
		4P	Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04854**

Compact NS

Circuit breaker	Type of circuit breaker	Canalis polarity	Connection	Supports	Canalis/ circuit breaker connection	Cover
NS630b/ 1250	Fixed	3P	Top direct	**LVS03561**	**LVS04712**	**LVS04871 + LVS04851**
			Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04853**
		4P	Top direct	**LVS03561**	**LVS04712**	**LVS04871 + LVS04851**
			Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04853**
	Drawout	3P	Top direct	**LVS03561**	**LVS04711**	**LVS04871 + LVS04852**
			Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04854**
		4P	Top direct	**LVS03561**	**LVS04712**	**LVS04871 + LVS04852**
			Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04854**
NS1600	Fixed	3P	Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04853**
		4P	Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04853**
	Drawout	3P	Rear	**LVS03561**	**LVS04713**	**LVS04871 + LVS04854**
		4P	Rear	**LVS03561**	**LVS04714**	**LVS04871 + LVS04854**

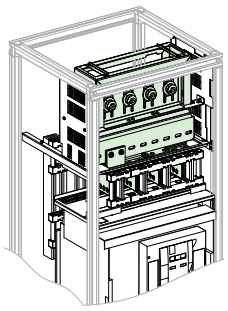
Arc-chute covers

Circuit breaker	Type of circuit breaker	Canalis polarity	Cat. no.
Masterpact MTZ1/NT	Fixed	3P	**47335**
		4P	**47336**
Compact NS	Fixed	3P	**33596**
		4P	**33597**

Canalis KTC 1000 to 6300

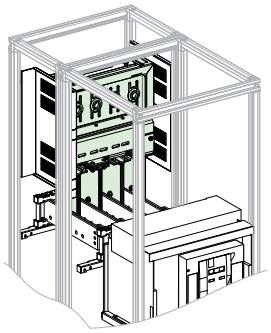
Interfaces for Masterpact MTZ2/NW circuit breakers

DD202310-G



Top direct connection (RDH)

DD202311-G



Rear connection (RAR)

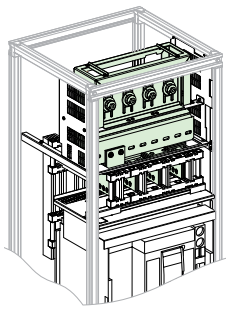
Fitting the interface does not change switchboard modularity as fixed by the devices.

Circuit breaker	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
				Top direct	Rear	
MTZ2/NW 08/16	Drawout	3L+PE	3P	■		**KTB87811**
					■	**KTB87821**
		3L+N+PE	4P	■		**KTB87812**
					■	**KTB87822**
		3L+N+PER	4P	■		**KTB87812+KTB0164PE1**
					■	**KTB87822+KTB0164PE1**
MTZ2/NW 20/25	Drawout	3L+PE	3P	■		**KTB87813**
					■	**KTB87823**
		3L+N+PE	4P	■		**KTB87814**
					■	**KTB87824**
		3L+N+PER	4P	■		**KTB87814+KTB0244PE1**
					■	**KTB87824+KTB0244PE1**
MTZ2/NW 32	Drawout	3L+PE	3P	■		**KTB87815**
					■	**KTB87825**
		3L+N+PE	4P	■		**KTB87816**
					■	**KTB87826**
		3L+N+PER	4P	■		**KTB87816+KTB0404PE1**
					■	**KTB87826+KTB0404PE1**
MTZ2/NW 40	Drawout	3L+PE	3P	■		**KTB87817**
					■	**KTB87827**
		3L+N+PE	4P	■		**KTB87818**
					■	**KTB87828**
		3L+N+PER	4P	■		**KTB87818+KTB0404PE1**
					■	**KTB87828+KTB0404PE1**
MTZ3/NW 40b	Drawout	3L+PE	3P		■	**KTB1203**
		3L+N+PE	4P		■	**KTB1204**
		3L+N+PER	4P		■	**KTB01204 + KTB0404PE1**
MTZ3/NW 50	Drawout	3L+PE	3P		■	**KTB1207**
		3L+N+PE	4P		■	**KTB1208**
		3L+N+PER	4P		■	**KTB1208 + KTB0622PE1**

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

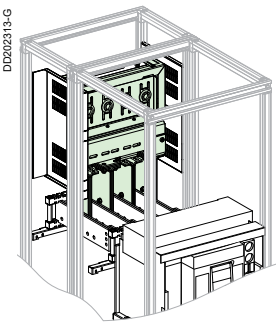
Interfaces for Masterpact MTZ1/NT circuit breakers

DD202312-G



Top direct connection (RDH)

DD202313-G



Rear connection (RAR)

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

Circuit breaker	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
				Top direct	Rear	
MTZ1/NT 08/16	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.
MTZ2/NW 08/40 MTZ1/NT 08/16	Drawout	Top direct	**87800**
MTZ2/NW 08/32(1) MTZ1/NT 08/16	Drawout	Rear	**87801**

(1) Rear connection of the interface to a Masterpact MTZ2/NW 40 circuit breaker, the supports are supplied with the interface.
Note: For MTZ3/NW40 breaker with Rear connections interface supports as follows,
1200 mm Depth - Supports are supplied along with the interface.
1400 mm Depth - LVMZ2860X0 reference to be ordered separately.

Designation	Cat. no.
Special tightening wrench bit	**87808**

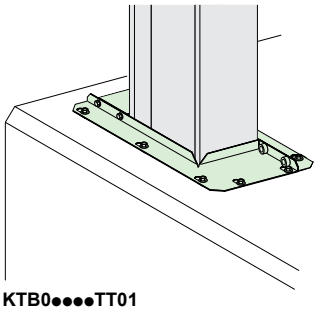
■ For 2 superimposed 120x10 bars.
■ This tool is essential to tighten the conversion modules on the junction block's spreaders. It is fitted on a torque wrench.

Sealing kits
IP55

Canalis KTC 1000 to 6300

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

DD202314-G

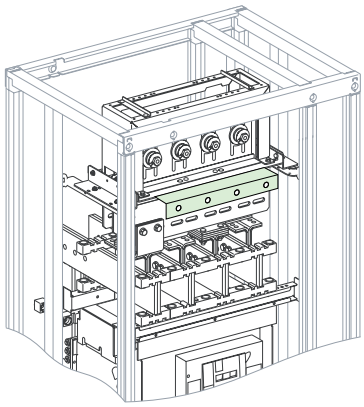


KTB0●●●●TT01

Type	Rating of the trunking (A)	Height H of the trunking (mm)	Cat. no.
Sealing kit	1000	74	**KTB0074TT01**
	1350	104	**KTB0104TT01**
	1600	124	**KTB0124TT01**
	2000	164	**KTB0164TT01**
	2500	204	**KTB0204TT01**
	3200	244	**KTB0244TT01**
	4000	324	**KTB0324TT01**
	5000	404	**KTB0404TT01**

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

DD230215-G

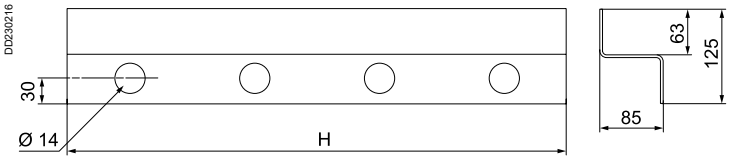


KTB0●●●PE1

Height "H" (mm)	Number of holes	Cat.no.
164	2	**KTB0164PE1**
244	3	**KTB0244PE1**
404	4	**KTB0404PE1**

KTB0●●●PE1

DD230216

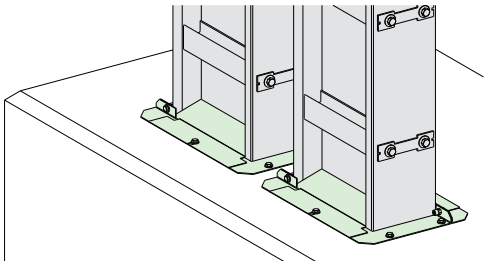


Thickness: 3 mm.

Canalis KTC 6300

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

DB410936-G

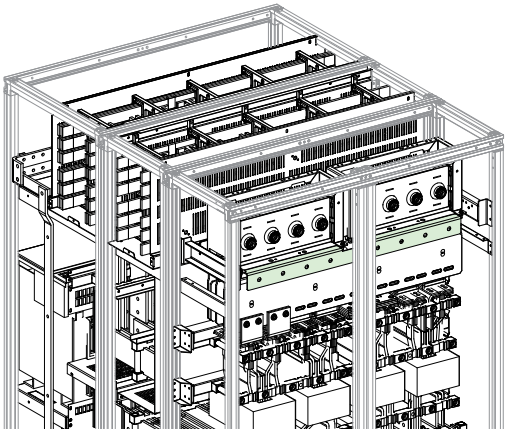


KTB0622TT01

Type	Rating of the trunking (A)	Height H of the trunking (mm)	Cat. no.
Sealing kit	6300	622	**KTB0622TT01**

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

DB410937-G

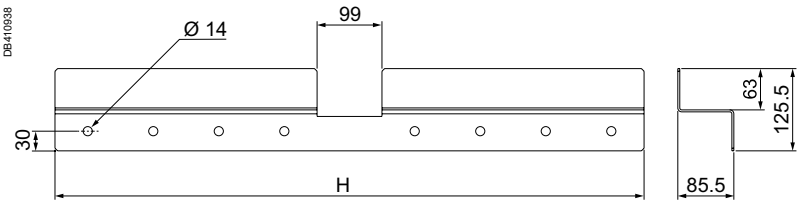


KTB0622PE1

Height "H" (mm)	Number of holes	Cat.no.
622	8	**KTB0622PE1**

KTB0622PE1

DB410938



Thickness: 3 mm.

Catalogue numbers and dimensions
Feed units for switchboards and oil immersed transformers
IP55

Canalis KTC 1000 to 5000

Ordering

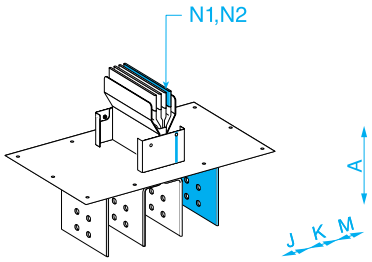
Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected unit as a technical comment.

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:
KTC1350ER42, A = 235, J = 170, K = 170 and M = 170.

Rating

ER●1, ER●2 - Straight feed units

DD210831



KTC●●●●ER●1
KTC●●●●ER●2

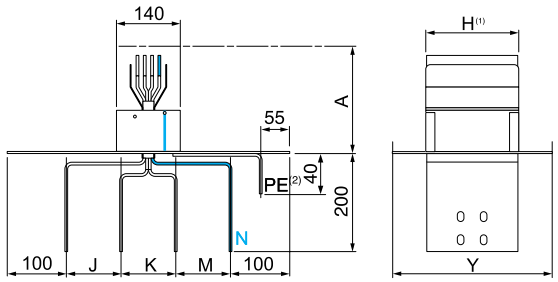
Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	N1	KTC●●●●ER31	KTC●●●●ER41	KTC●●●●ER51
Made to measure	N2	KTC●●●●ER32	KTC●●●●ER42	KTC●●●●ER52

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC●●●●ER5● by KTC●●●●ER7●.

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

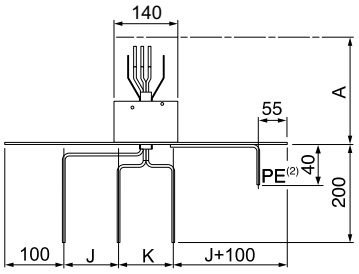
KTC●●●●ER●1, KTC●●●●ER●2
3L + N + PE or PER

DD210832



3L + PE

DB429068



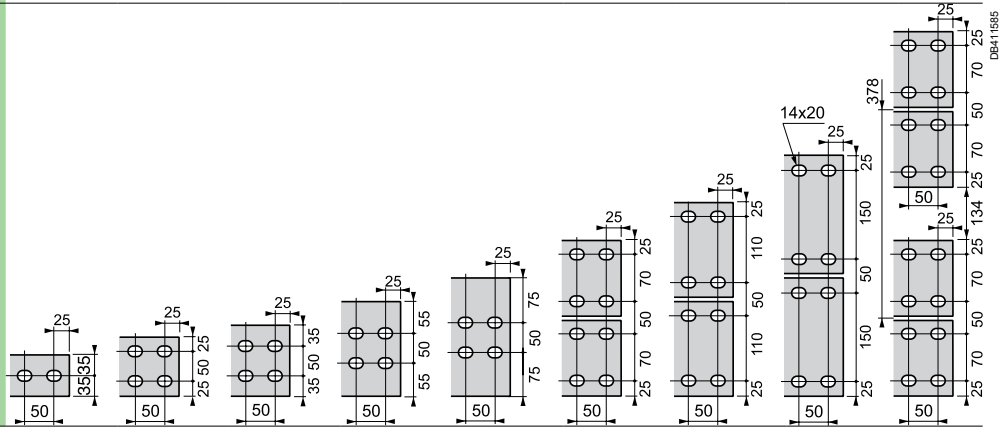
(1) See the "Trunking cross-section" table in the following page.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.

Table of dimensions

Rating (A)	Neutral	Dimensions (mm)		
		A	J, K, M	Y
1000 to 1600	N1	235	115	230
	N2	235 to 734	80 to 250	230
2000 to 3200	N1	235	115	350
	N2	235 to 734	80 to 250	350
4000 and 5000	N1	235	115	510
	N2	235 to 734	80 to 250	510

Dimensions of connection pads

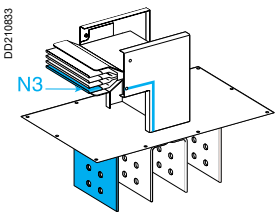
Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Drilling for connection (mm) Thickness of conductor = 6 mm.									



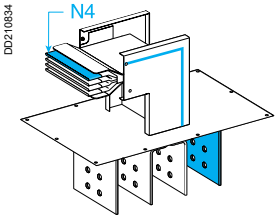
Schneider Electric

Catalogue numbers and dimensions
Feed units for switchboards and oil immersed transformers
IP55
Canalis KTC 1000 to 5000

ER●3, ER●4 - Flat elbow feed units



KTC●●●●ER●3

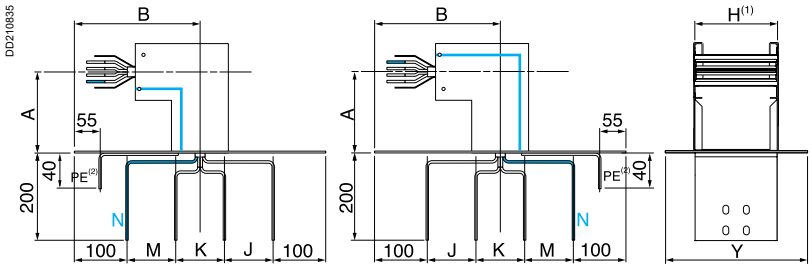


KTC●●●●ER●4

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N3	KTC●●●●ER33	KTC●●●●ER43	KTC●●●●ER53
	N4	KTC●●●●ER34	KTC●●●●ER44	KTC●●●●ER54

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC●●●●ER5● by KTC●●●●ER7●.

KTC●●●●ER●3 (3), 3L + N + PE or PER **KTC●●●●ER●4 (3), 3L + N + PE or PER**



(1) See the "Trunking cross-section" table below.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.
(3) 3L + PE version, see page 79.

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

Tableau of dimensions

Rating (A)	Neutral	Dimensions (mm)			
		A	B	J, K, M	Y
1000 to 1600	N3, N4	200 to 534	300	80 to 250	230
2000 to 3200	N3, N4	200 to 534	300	80 to 250	350
4000 and 5000	N3, N4	200 to 534	300	80 to 250	510

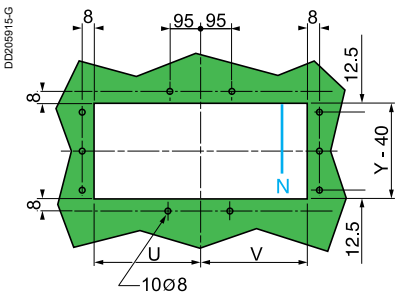
Cut-out drawing for feed units placed directly on the device roof

Table of dimensions

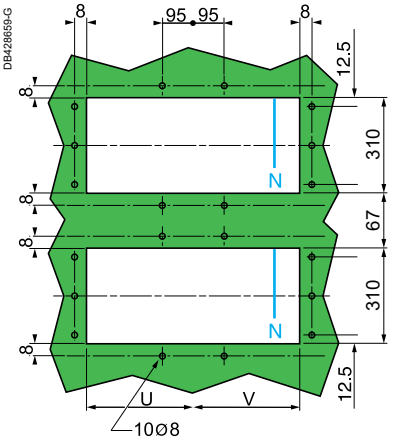
Rating (A)	Dimensions (mm)		
	Y	U	V
1000 to 1600	230	K/2 + J + 80	K/2 + M + 80
2000 to 3200	350	K/2 + J + 80	K/2 + M + 80
4000 and 5000	510	K/2 + J + 80	K/2 + M + 80
6300	350	K/2 + J + 80	K/2 + M + 80

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

1000 to 5000 A

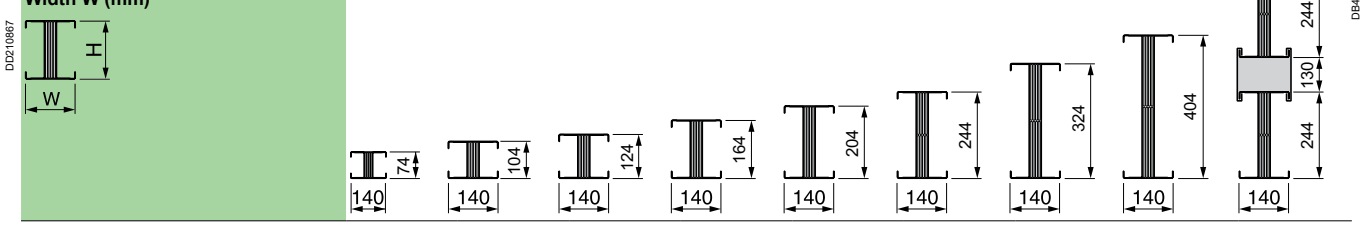


6300 A



Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										

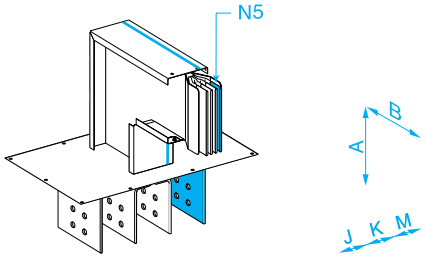


Catalogue numbers and dimensions
Feed units for switchboards and oil immersed transformers
IP55

Canalis KTC 1000 to 5000

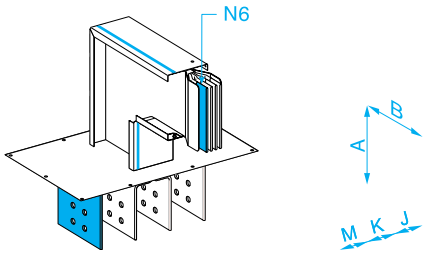
ER●5, ER●6 - Edgewise elbow feed units

DD210837



KTC●●●●ER●5

DD210838



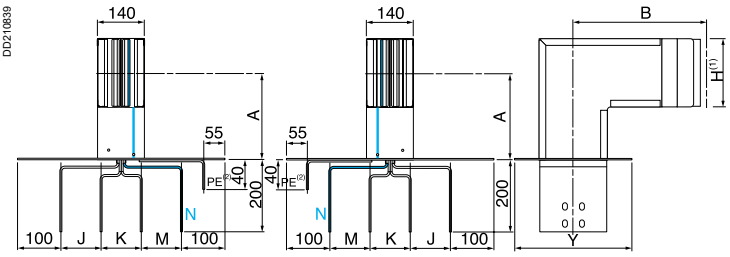
KTC●●●●ER●6

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N5	KTC●●●●ER35	KTC●●●●ER45	KTC●●●●ER55
	N6	KTC●●●●ER36	KTC●●●●ER46	KTC●●●●ER56

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC●●●●ER5● by KTC●●●●ER7●.

KTC●●●●ER●5 (3), 3L + N + PE or PER **KTC●●●●ER●6 (3), 3L + N + PE or PER**

DD210839



(1) See the "Trunking cross-section" table opposite.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.
(3) 3L + PE version, see page 79.

Table of dimensions

Rating (A)	Neutral	Dimensions (mm)			
		A	B	J, K, M	Y
1000	N5, N6	175 to 509	275	80 to 250	230
1350	N5, N6	190 to 524	290	80 to 250	230
1600	N5, N6	200 to 534	300	80 to 250	230
2000	N5, N6	220 to 554	320	80 to 250	350
2500	N5, N6	240 to 574	340	80 to 250	350
3200	N5, N6	260 to 594	360	80 to 250	350
4000	N5, N6	300 to 634	400	80 to 250	510
5000	N5, N6	340 to 674	440	80 to 250	510

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

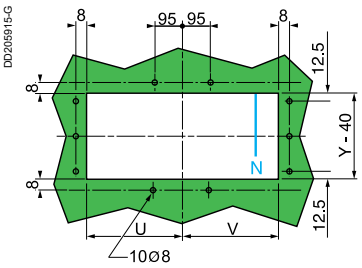
Table of dimensions

Rating (A)	Dimensions (mm)		
	Y	U	V
1000 to 1600	230	K/2 + J + 80	K/2 + M + 80
2000 to 3200	350	K/2 + J + 80	K/2 + M + 80
4000 and 5000	510	K/2 + J + 80	K/2 + M + 80
6300	350	K/2 + J + 80	K/2 + M + 80

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

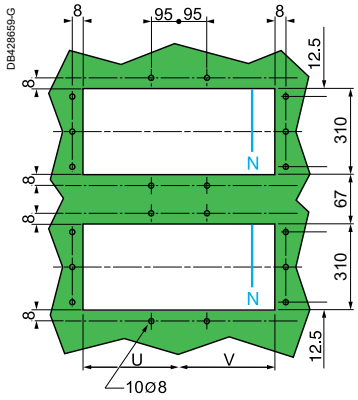
1000 to 5000 A

DD205915-G



6300 A

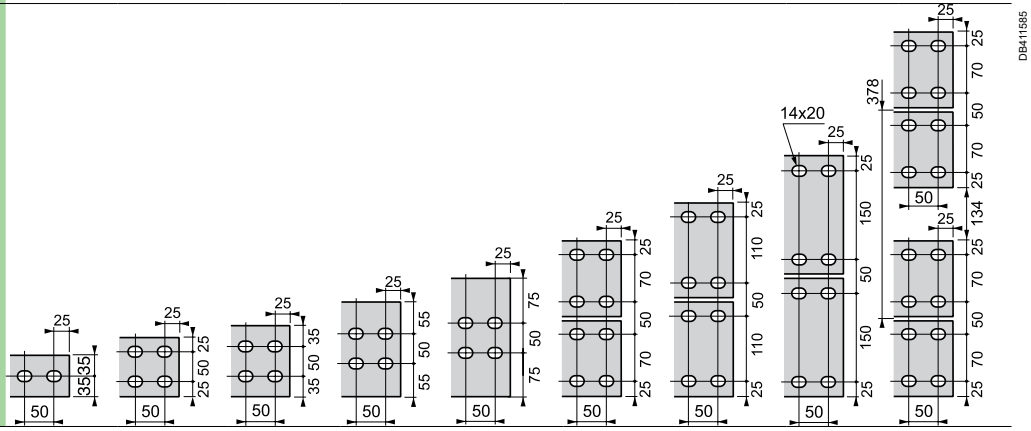
DB428659-G



Dimensions of connection pads

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Drilling for connection (mm) Thickness of conductor = 6 mm.									

DB411585



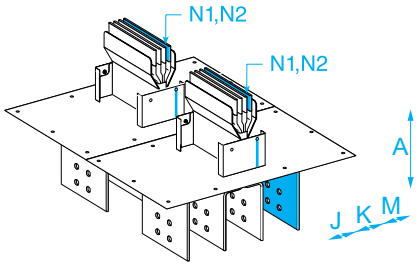
Schneider Electric

Feed units for switchboards and oil immersed transformers

IP55

Canalis KTC 6300

ER●1, ER●2 - Straight feed units

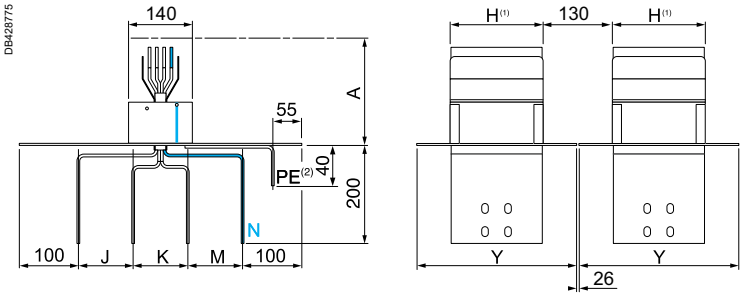


KTC6300ER●1
KTC6300ER●2

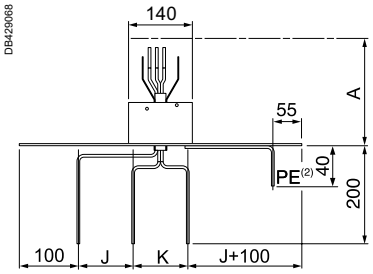
Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	N1	**KTC6300ER31**	**KTC6300ER41**	**KTC6300ER51**
Made to measure	N2	**KTC6300ER32**	**KTC6300ER42**	**KTC6300ER52**

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC6300ER5● by KTC6300ER7●.

KTC6300ER●1, KTC6300ER●2
3L + N + PE or PER



3L + PE



(1) See the "Trunking cross-section" table page 85.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.

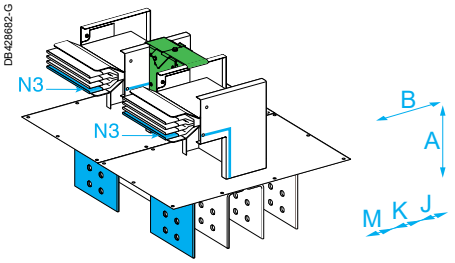
Table of dimensions

Rating (A)	Neutral	Dimensions (mm)		
		A	J, K, M	Y
6300	N1	235	115	350
	N2	235 to 734	80 to 250	350

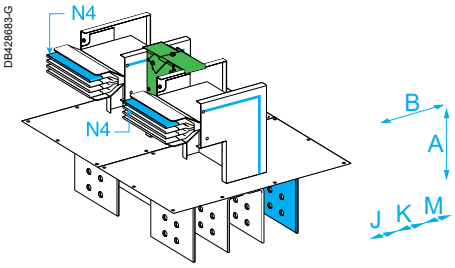
Catalogue numbers and dimensions
Feed units for switchboards and oil immersed transformers
IP55

Canalis KTC 6300

ER●3, ER●4 - Flat elbow feed units



KTC6300ER●3

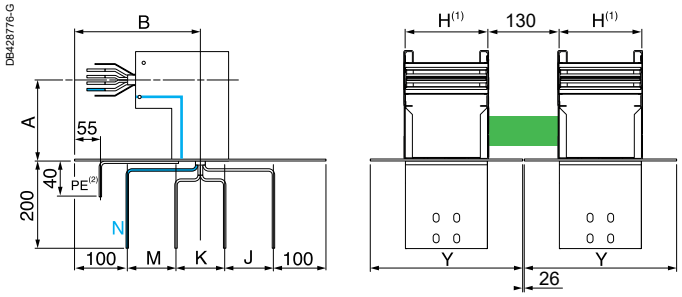


KTC6300ER●4

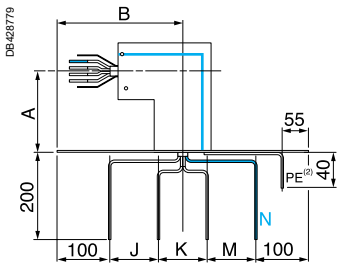
Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N3	KTC6300ER33	KTC6300ER43	KTC6300ER53
	N4	KTC6300ER34	KTC6300ER44	KTC6300ER54

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC6300ER5● by KTC6300ER7●.

KTC6300ER●3 (3), 3L + N + PE or PER



KTC6300ER●4 (3), 3L + N + PE or PER



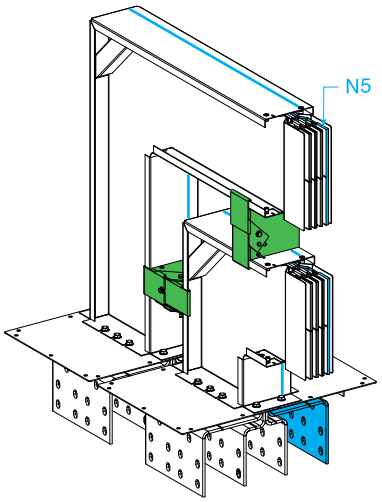
(1) See the "Trunking cross-section" table page 85.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.
(3) 3L + PE version, see page 79.

Tableau of dimensions

Rating (A)	Neutral	Dimensions (mm)			
		A	B	J, K, M	Y
6300	N3, N4	200 to 534	300	80 to 250	350

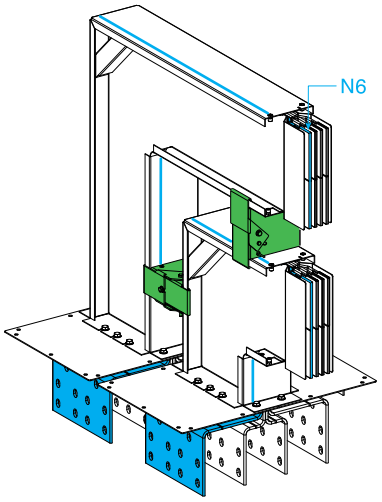
ER●5, ER●6 - Edgewise elbow feed units

DB428684-G



KTC6300ER●5

DB428685-G



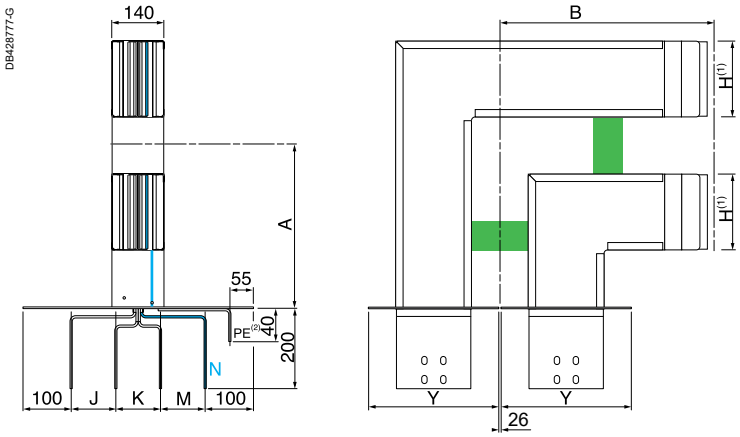
KTC6300ER●6

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N5	KTC6300ER35	KTC6300ER45	KTC6300ER55
	N6	KTC6300ER36	KTC6300ER46	KTC6300ER56

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC6300ER5● by KTC6300ER7●.

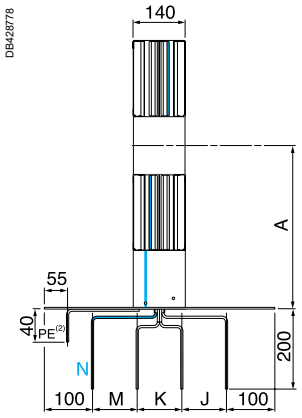
KTC6300ER●5 (3), 3L + N + PE or PER

DB428777-G



KTC6300ER●6 (3), 3L + N + PE or PER

DB428778



(1) See the "Trunking cross-section" table page 85.
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.
(3) 3L + PE version, see page 79.

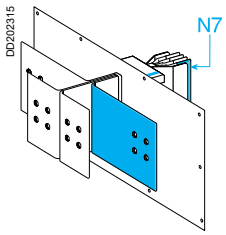
Table of dimensions

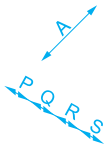
Rating (A)	Neutral	Dimensions (mm)			
		A	B	J, K, M	Y
6300	N3, N4	448 to 782	548	80 to 250	350

Catalogue numbers and dimensions
Feed units for switchboards and oil immersed transformers
IP55

Canalis KTC 1000 to 5000

ER●7 - Bar feed units, flat outlets



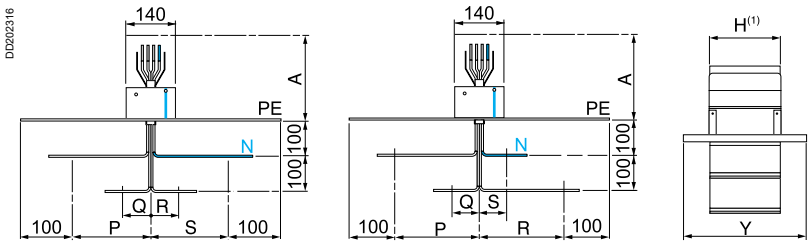


KTC●●●●ER●7

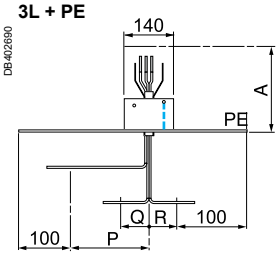
Type	Cat. no.(2)		
	3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	KTC●●●●ER37	KTC●●●●ER47	KTC●●●●ER57

(1) To order the 3L + N + PER version with reinforced Icc, replace KTC●●●●ER57 by KTC●●●●ER77.
(2) Not available for KTC6300.
Connection pad dimensions are identical to those of the feed units.

KTC●●●●ER●7
3L + N + PE or PER



3L + PE

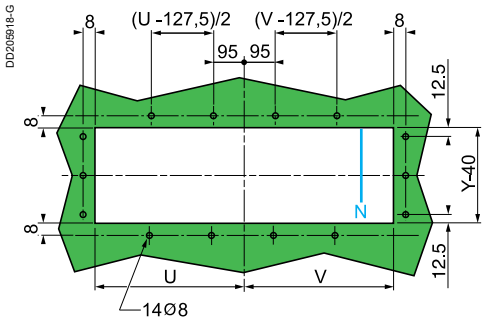


(1) See the "Trunking cross-section" table below.

Table of dimensions

Rating (A)	Dimensions (mm)				
	A	P - Q	S - R or R - S	Q, R, S minimum	Y
1000 to 1600	235 to 734	160 to 600	160 to 600	80	230
2000 to 3200	235 to 734	160 to 600	160 to 600	80	350
4000 and 5000	235 to 734	160 to 600	160 to 600	80	510

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

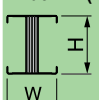


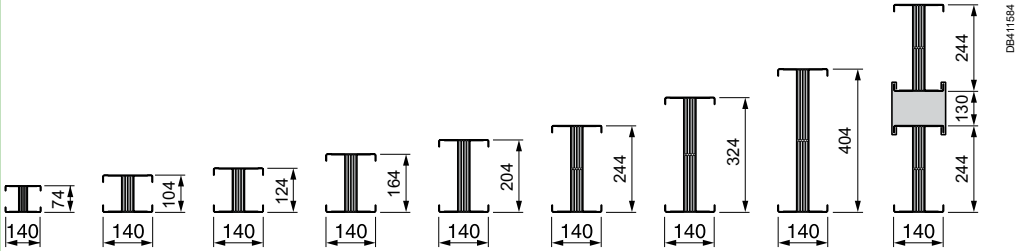
For the 3L + PE version, consider S = 0 to calculate the V quotation.

Table of dimensions

Rating (A)	Dimensions (mm)		
	Y	U	V
1000 to 1600	230	U = P + 80	if S > R, V = S + 80 if R > S, V = R + 80
2000 to 3200	350		
4000 and 5000	510		

Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										



Canalis KTC 1000 to 6300

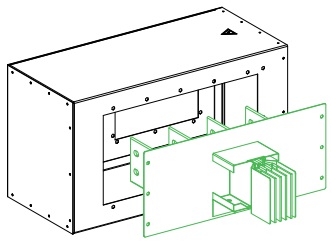
Ordering

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.

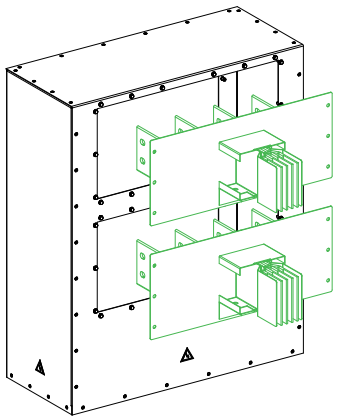
CR1 - Rigid horizontal protective covers for feed units ER N1 to N7

DB428711-G



KTB●●●●CR1

DB428638-G



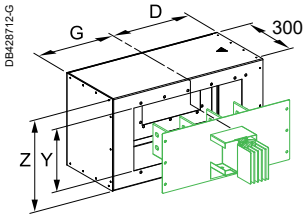
KTB0726CR1

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)
1000 to 1600	230	**KTB0230CR1**	12.00
2000 to 3200	350	**KTB0350CR1**	12.00
4000 and 5000	510	**KTB0510CR1**	12.00
6300	350	**KTB0726CR1**	60.00

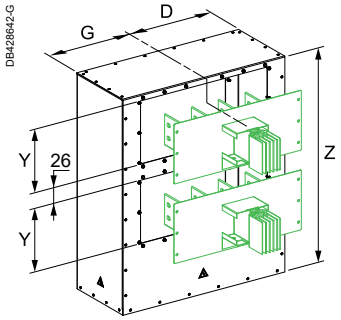
KTB●●●●CR1

DB428712-G



KTB0726CR1

DB428642-G



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 **D** and **G**.

If the feed connector comes into the cover with the neutral on the right:
D = **K**/2 + **M** + 100(1)
G = **K**/2 + **J** + 100(1)

If the feed connector comes into the cover with the neutral on the left:
D = **K**/2 + **J** + 100(1)
G = **K**/2 + **M** + 100(1)
(1) = For calculating 5000A = D & G values.
D = **K**/2 + **J** + 172.5
G = **K**/2 + **M** + 172.5

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

Table of dimensions

Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	310 to 800
2000 to 3200	350	220 to 475	220 to 475	430 to 800
4000 and 5000	510	220 to 475	220 to 475	590 to 800
6300	350	292.5 to 547.5	292.5 to 547.5	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 **D** and **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)** + 100
G = **max(R ; S)**+ 100

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

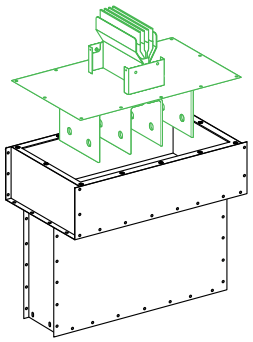
Table of dimensions

Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	340 to 1000	340 to 1000	310 to 800
2000 to 3200	350	340 to 1000	340 to 1000	430 to 800
4000 and 5000	510	340 to 1000	340 to 1000	590 to 800

Canalis KTC 1000 to 6300

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

DD202321-G



KTB●●●●CR2

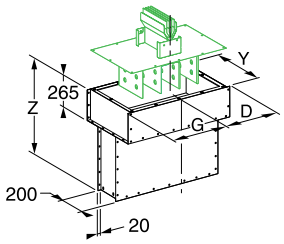
Important: when ordering a vertical cover, make sure you indicate dimensions "D, G and Z" with the catalogue number.

400 to 800 mm high covers

Rating (A)	Dimensions "Y" (mm)	Cat. no.	Weight (kg)
1000 to 1600	230	**KTB0230CR2**	40.00
2000 to 3200	350	**KTB0350CR2**	40.00
4000 and 5000	510	**KTB0510CR2**	40.00

KTB●●●●CR2

DD202322-G



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

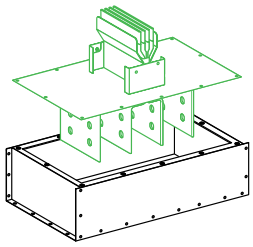
Table of dimensions for ER N1 to N6 straight feed units

Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	400 to 800
2000 to 3200	350	220 to 475	220 to 475	400 to 800
4000 and 5000	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)
1000 to 1600	230	**KTB0230CR3**	17.00
2000 to 3200	350	**KTB0350CR3**	17.00
4000 and 5000	510	**KTB0510CR3**	17.00
6300	350	**KTB0726CR3**	60.00

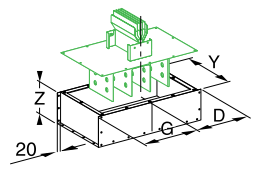
DD202323-G



KTB●●●●CR3

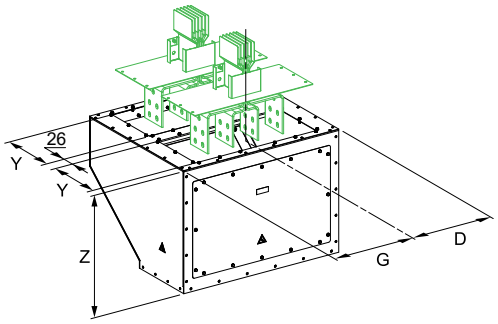
KTB●●●●CR3

DD202324-G

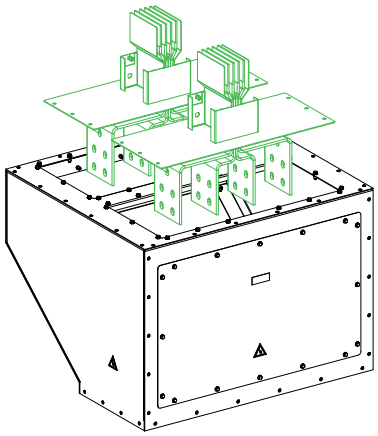


KTB0726CR3

DB428643



DB428713-G



KTB0726CR3

Dimensions **D** and **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)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	238.5 to 493.5	238.5 to 493.5	100 to 400
2000 to 3200	350	238.5 to 493.5	238.5 to 493.5	100 to 400
4000 and 5000	510	238.5 to 493.5	238.5 to 493.5	100 to 400
6300	350	292.5 to 547.5	292.5 to 547.5	591 to 800

D = **K**/2 + **J** + 118.5(1)
G = **K**/2 + **M** + 118.5(1)
For the 3L + PE version, consider M = J to calculate the D and G quotations.
(1) = For calculating 5000A = D & G values.
D = **K**/2 + **J** + 172.5
G = **K**/2 + **M** + 172.5

Table of dimensions for ER N7 straight feed units

Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	100 to 400
2000 to 3200	350	220 to 475	220 to 475	100 to 400
4000 and 5000	510	220 to 475	220 to 475	100 to 400

D = **max (P ; Q)** + 100
G = **max (R ; S)** + 100
For the 3L + PE version, consider S = 0 to calculate the D and G quotations.

Protective covers for Minera transformers
IP55

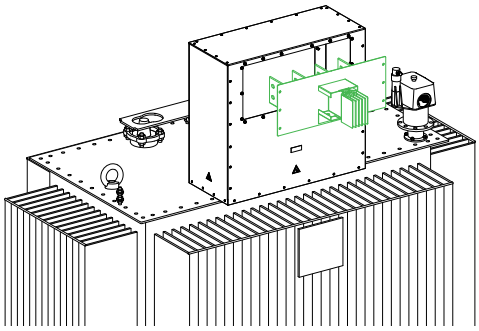
Canalis KTC 1000 to 6300

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 232.

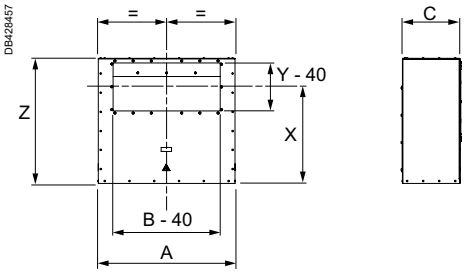
Cat. no.	Y (mm)	Z (mm)	X (mm)	A (mm)	B (mm)	C (mm)	Weight (kg)
KTB0230CR71	230	450	320	780	650	256	30
KTB0350CR71	350	510	320	780	650	256	30
KTB0350CR72	350	540	350	780	650	256	30
KTB0350CR73	350	590	400	855	710	276	30
KTB0350CR74	350	590	400	855	710	359	30
KTB0510CR71	510	705	435	855	710	276	30
KTB0510CR72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

DB428456-G



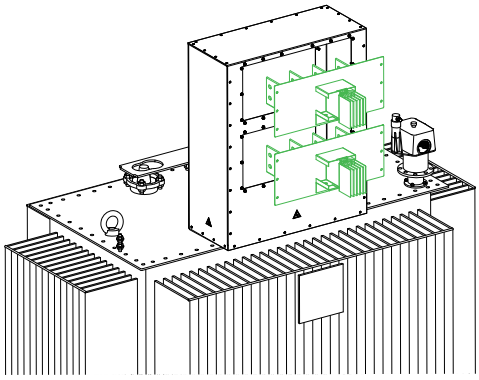
KTB●●●●CR7●

DB428457



KTB●●●●CR7●

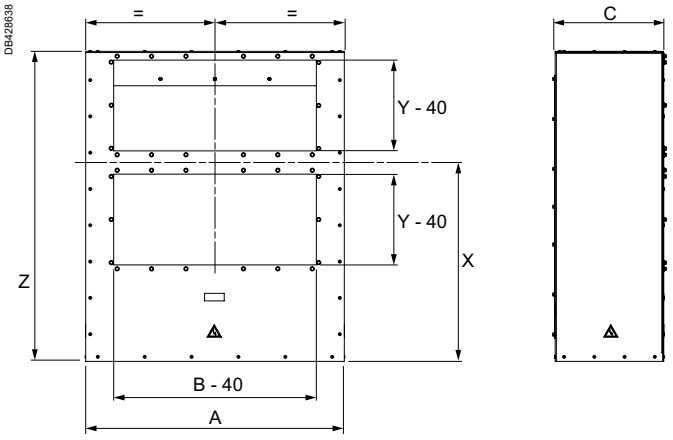
DB428638-G



KTB0726CR71

KTB0726CR71

DB428638



Interfaces selection guide, see page 232 and page 233

Catalogue numbers and dimensions
Protective covers for Minera transformers
IP55

Canalis KTC 1000 to 6300

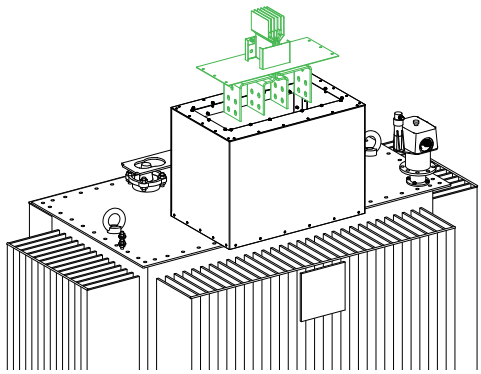
CR8 - Protective covers for vertical incomers

These covers are used to connect Canalis KT to Minera transformers.
Dimensions are predefined to match with transformer ratings.
Refer to the selection guide, see page 234.

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

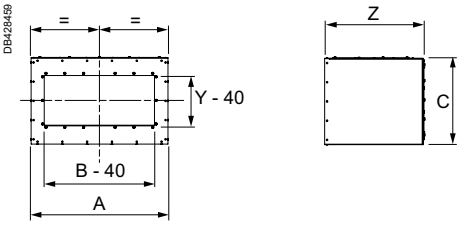
KTB●●●●CR8●

DB428458-G



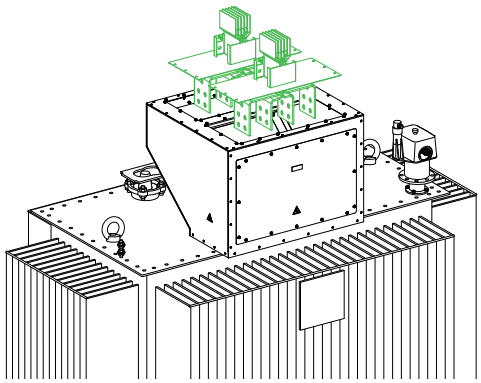
KTB●●●●CR8●

DB428459



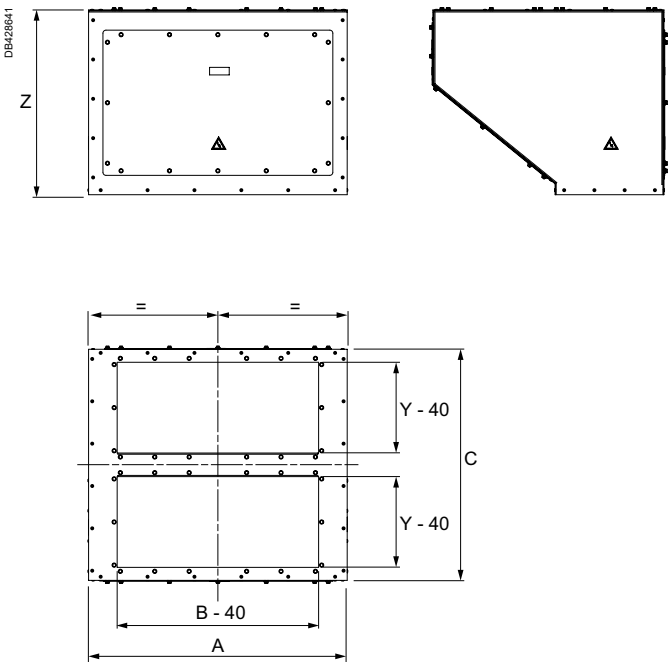
KTB0726CR81

DB428640-G



KTB0726CR81

DB428641

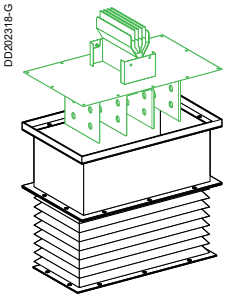


Interfaces selection guide, see page 234 and page 235

Flexible protective covers Cable boxes
IP55

Canalis KTC 1000 to 5000

CS - Flexible vertical protective covers for straight feed units



KTB●●●●CS0

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

Rating (A)	Dimensions "Y" (mm)	Cat. no.	Weight (kg)
1000 to 1600	230	**KTB0230CS0**	15.00
2000 to 3200	350	**KTB0350CS0**	17.00
4000 and 5000	510	**KTB0510CS0**	19.00

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

KTB●●●●CS0

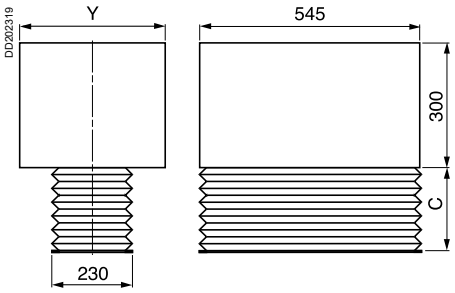
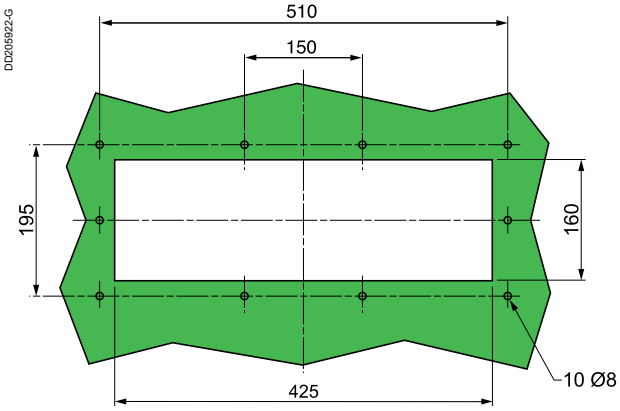


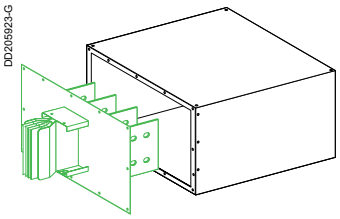
Table of dimensions

Rating (A)	Dimensions (mm)	
	Y	C
1000 to 1600	230	200 to 650
2000 to 3200	350	200 to 650
4000 and 5000	510	200 to 650

Cut-out drawing for fixing the flexible vertical protective cover



BC - Cable boxes

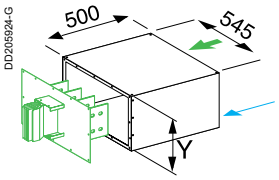


KTB●●●●BC01

Rating (A)	Dimensions "Y" (mm)	Cat. no.	Weight (kg)
1000 to 1600	230	**KTB0230BC01**	15.00
2000 to 3200	350	**KTB0350BC01**	17.00
4000 and 5000	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.**

KTB●●●●BC01



Cable entry.
Aluminium plate to be drilled.

Table of dimensions

Rating (A)	Dimensions (mm)
	Y
1000 to 1600	230
2000 to 3200	350
4000 and 5000	510

See table page 79 for connection pad dimensions.

Feed units for dry-type transformers
IP55

Canalis KTC 1000 to 5000

Ordering

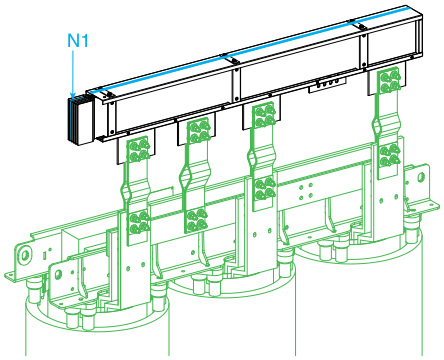
Complete the catalogue number by replacing "●●●●" by the rating.
Important:
■ add the dimensions of the selected unit as a technical comment.

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:
KTC3200EL52, E = 550 mm, N = 310 mm and T = 3.

Rating

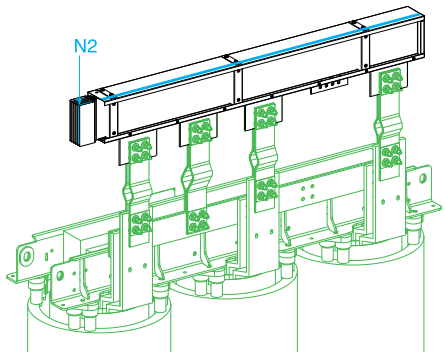
EL●1, EL●2 - N1 and N2 feed units for dry-type transformers

DD202329-G



KTC●●●●EL●1

DD202331-G



KTC●●●●EL●2

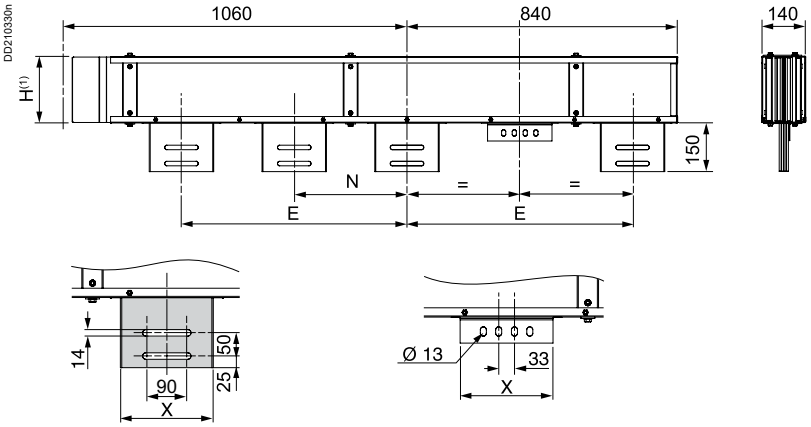
Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC●●●●EL31	KTC●●●●EL41	KTC●●●●EL51
	N2	KTC●●●●EL32	KTC●●●●EL42	KTC●●●●EL52

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●EL5● by KTC●●●●EL7●.

For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 96.
For fixing supports, see KTB●●●●ZA4 page 106.

KTC●●●●EL●1, KTC●●●●EL●2

DD210330n



(1) See the "Trunking cross-section" table page 99.

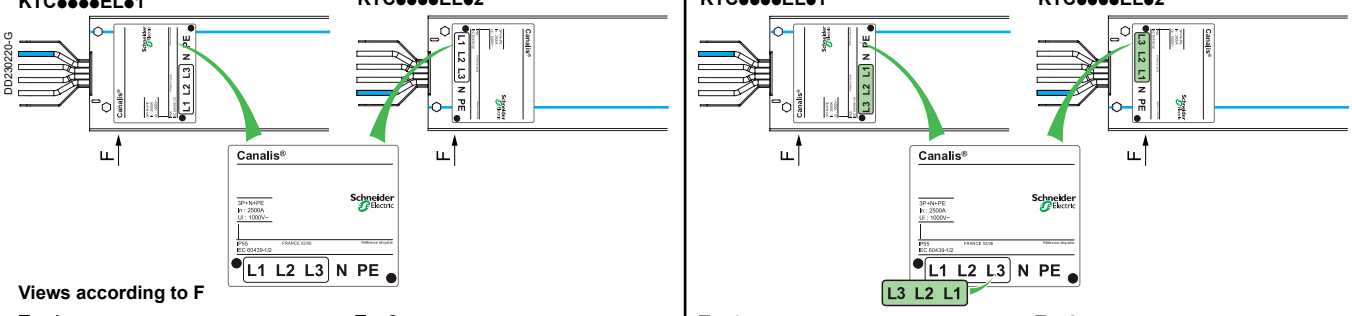
Table of dimensions

Rating (A)	Neutral	Dimensions (mm)		
		E	N	X
1000 to 1600	N1, N2	390 to 700	195 to E - 195	160
2000 to 5000	N1, N2	470 to 700	235 to E - 235	200

Selecting phase order T

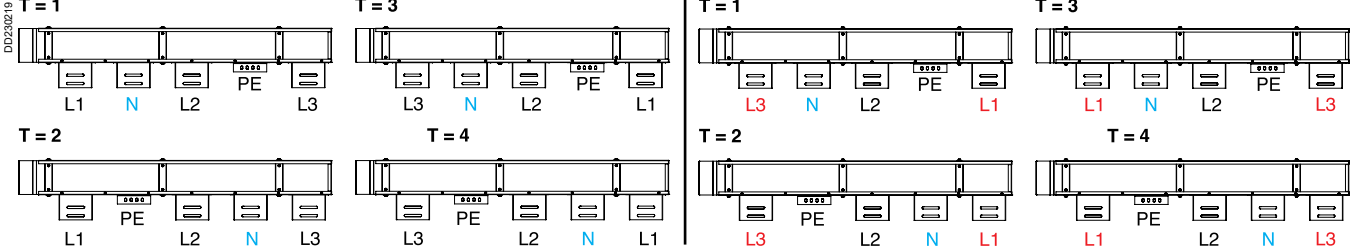
Top views

DD230220-G



Views according to F

DD230219

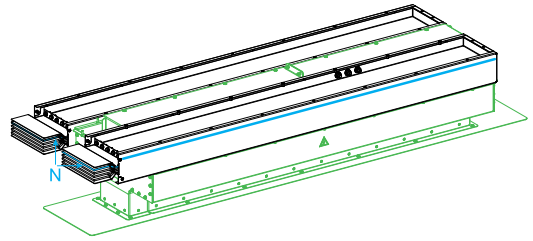


Schneider Electric

Canalis KTC 6300

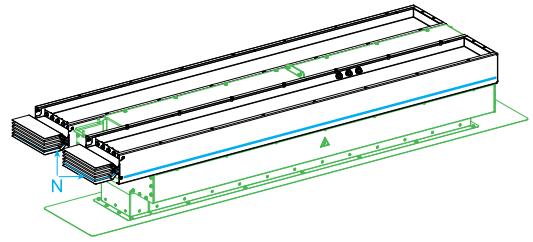
EL●1, EL●2 - Feed units for dry-type transformers

DB428750-G



KTC6300EL●1

DB428751-G



KTC6300EL●2

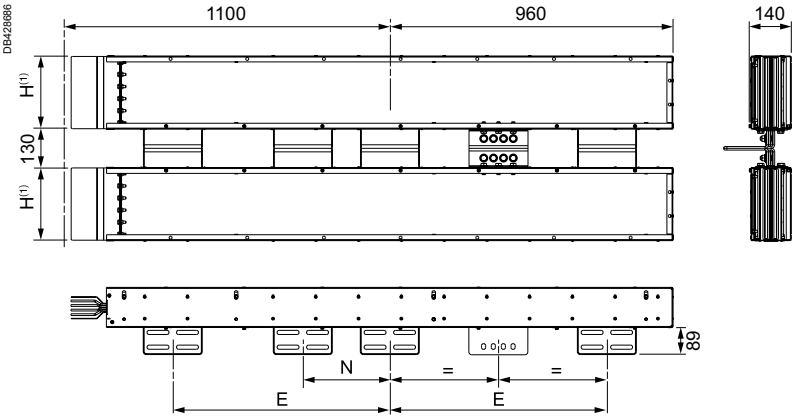
Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N1	KTC6300EL31	KTC6300EL41	KTC6300EL51
	N2	KTC6300EL32	KTC6300EL42	KTC6300EL52

(1) To order the 3L + N + PER version with reinforced Isc, replace KTC6300EL5● by KTC6300EL7●.

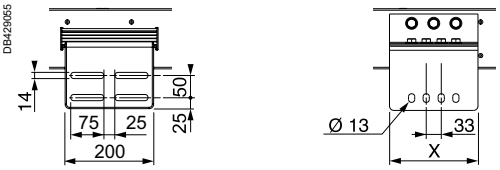
For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 96.
For fixing supports, see KTB●●●●ZA4 page 106.

KTC6300EL●1, KTC6300EL●2

DB428866



DB429055



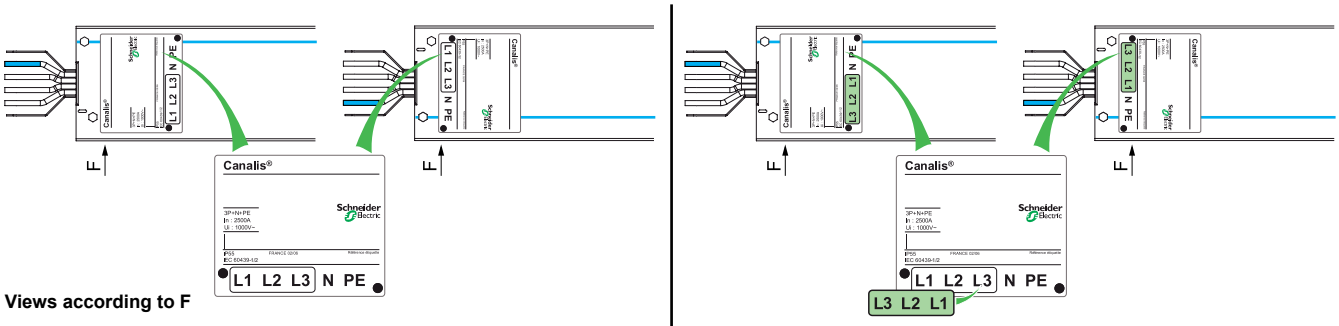
(1) See the "Trunking cross-section" table page 99.

Table of dimensions

Rating (A)	Neutral	Dimensions (mm)		
		E	N	X
6300	N1, N2	470 to 736	235 to E - 235	200

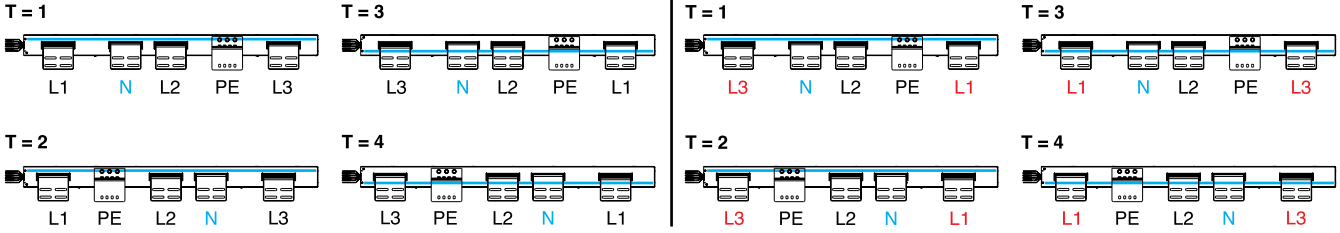
Selecting phase order T

DD230220-G



Views according to F

DD230219

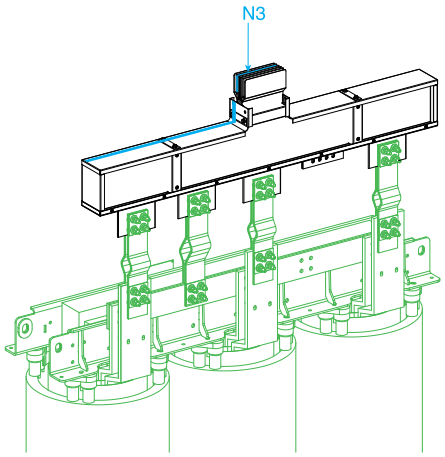


Feed units for dry-type transformers
IP55

Canalis KTC 1000 to 5000

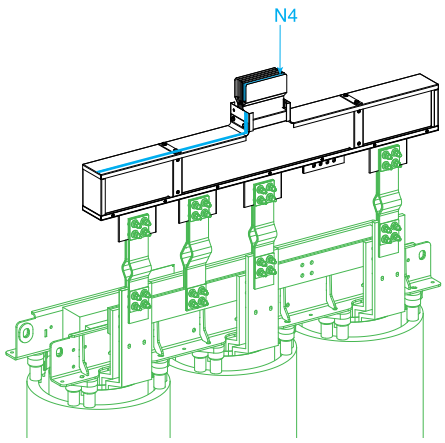
EL●3, EL●4 - Feed units for dry-type transformers

DD202333-G



KTC●●●●EL●3

DD202334-G



KTC●●●●EL●4

Type	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N3	KTC●●●●EL33	KTC●●●●EL43	KTC●●●●EL53
	N4	KTC●●●●EL34	KTC●●●●EL44	KTC●●●●EL54

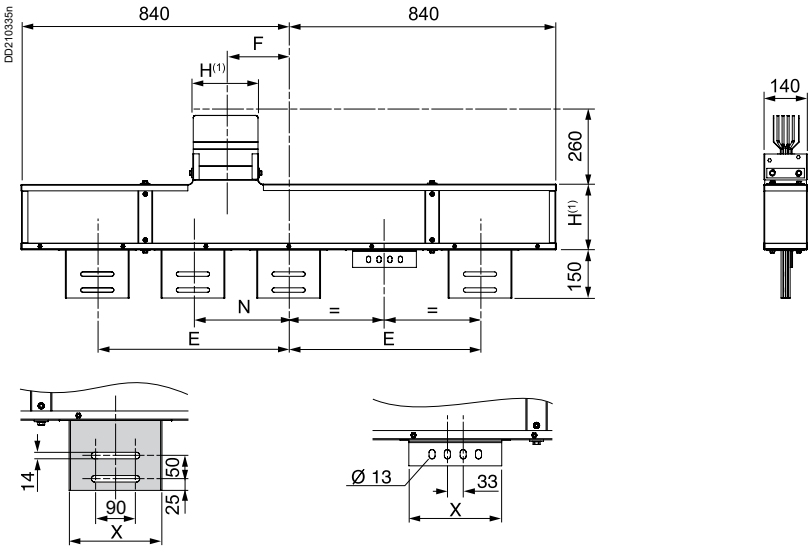
(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●EL5● by KTC●●●●EL7●.

For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 96.

For fixing supports, see KTB●●●●ZA4 page 106.

KTC●●●●EL●3, KTC●●●●EL●4

DD210335n



(1) See the "Trunking cross-section" table page 99.

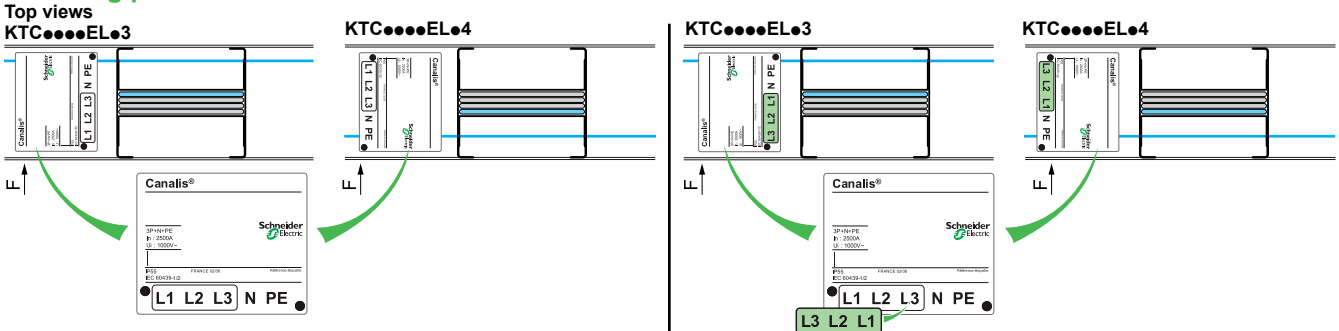
Table of dimensions

Rating (A)	Neutral	Dimensions (mm)			
		E	N	F	X
1000 to 1600	N3, N4	390 to 700	195 to E - 195	0 to 200	160
2000 to 5000	N3, N4	470 to 700	235 to E - 235	0 to 200	200

Selecting phase order T

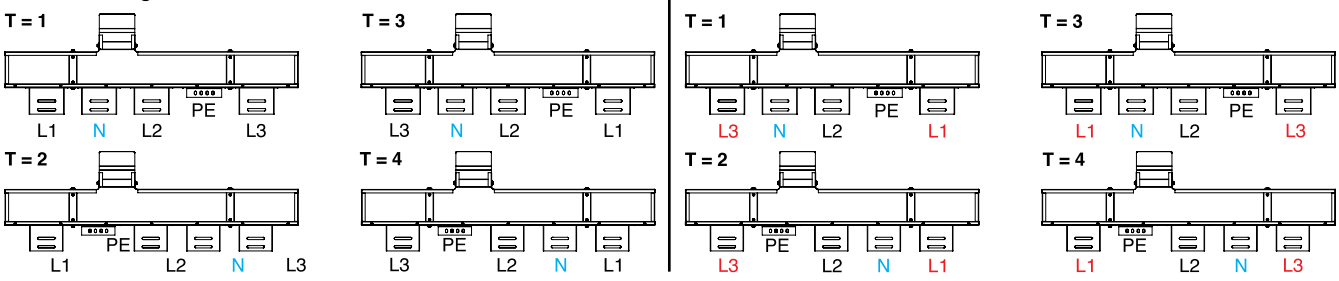
Top views

DD230222-G



DD230221

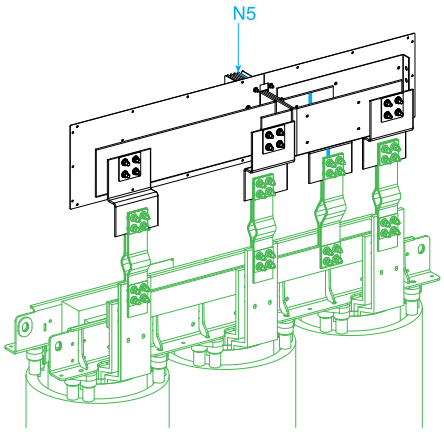
Views according to F



Canalis KTC 1000 to 6300

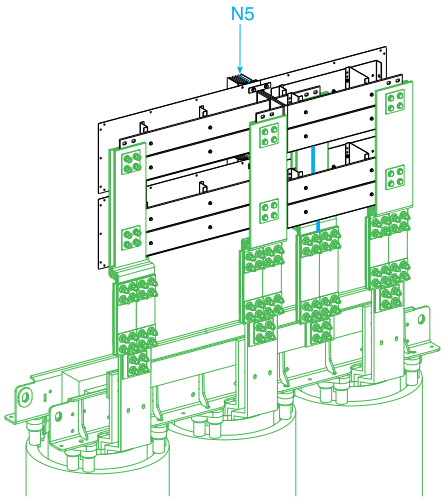
EL●5 - Feed units for dry-type transformers

DD202337-G



KTC●●●●EL●5

DB411578



KTC6300EL●5

Type	Position of neutral	Cat. no. (2)		
		3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N5	**KTC●●●●EL35**	**KTC●●●●EL45**	**KTC●●●●EL55**

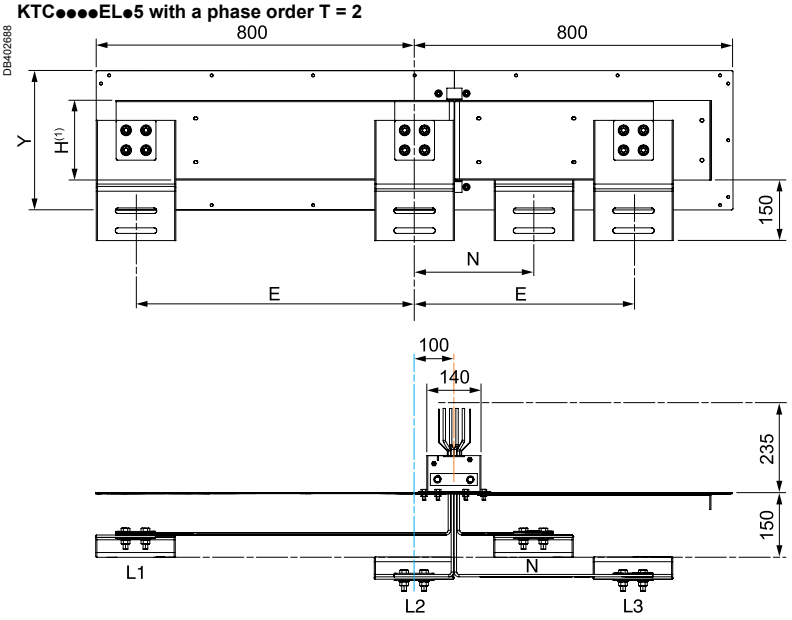
(1) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●EL55 by KTC●●●●EL75.
(2) References KTC6300EL●5 are made of 2 references KTC3200EL●5.

For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 96.

These end feed units are supplied with PEN connection kit.

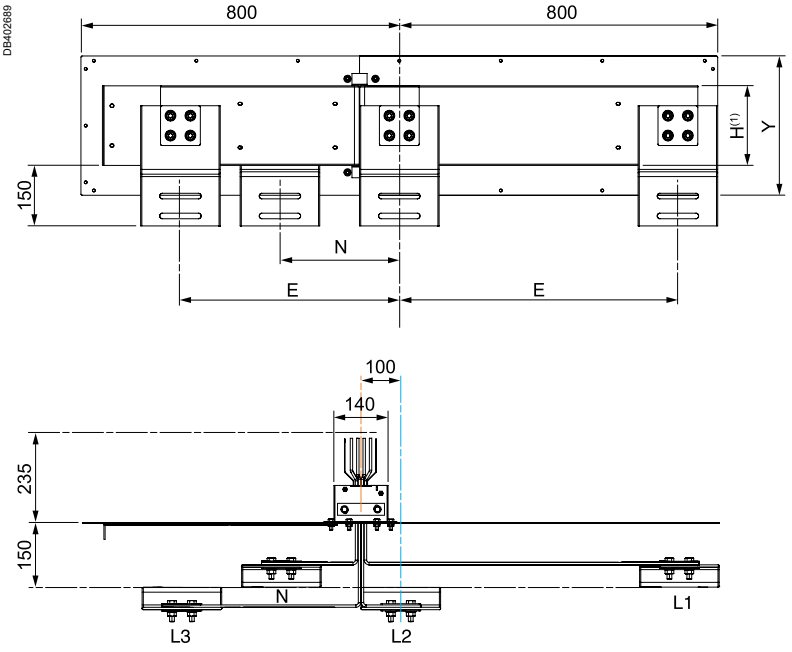
KTC●●●●EL●5 with a phase order T = 2

DB402688



KTC●●●●EL●5 with a phase order T = 3

DB402689



DD210873n

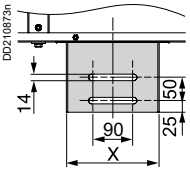


Table of dimensions

Rating (A)	Neutral	Dimensions (mm)			
		Y	E	N	X
1000 to 1600	N1, N2	230	390 to 700	195 to E - 195	160
2000 to 3200	N1, N2	350	470 to 700	235 to E - 235	200
4000 and 5000	N1, N2	510	470 to 700	235 to E - 235	200
6300	N5	350	550 to 700	275 to E - 275	200

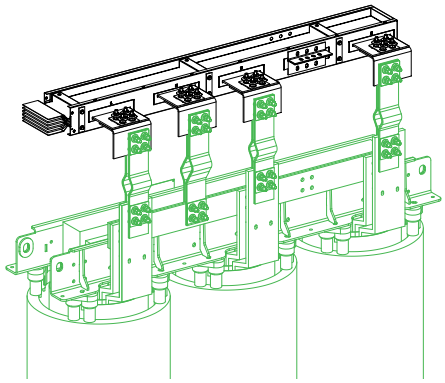
(1) See the "Trunking cross-section" table page 99.
Important: the above designs and markings correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse markings L1 and L3 on the transformer side.

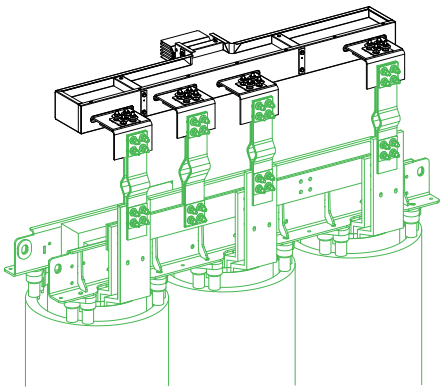
Feed units for dry-type transformers
IP55

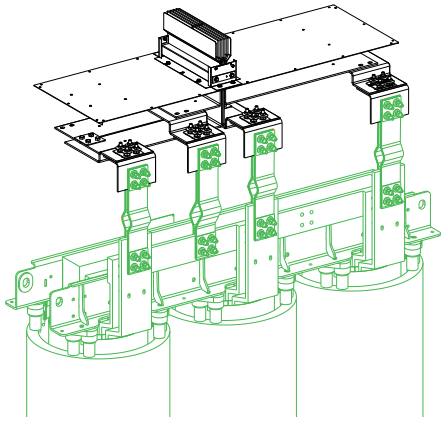
Canalis KTC 1000 to 5000

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

DD202340-G





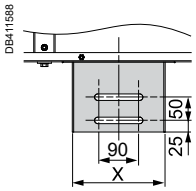


KTB0000YE1, KTB0000YE21

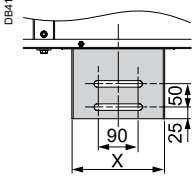
Description	Rating (A)	Phase width "X" (mm)	Cat. no.
4 angle brackets + screws	1000 to 1600	160	**KTB0000YE1**
	2000 to 2500	200	**KTB0000YE21**
8 angle brackets + screws	3200	200	**KTB0000YE22**
12 angle brackets + screws	4000 to 5000	200	**KTB0000YE23**

KTB0000YE1, KTB0000YE2●

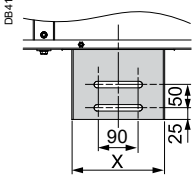
DB411588



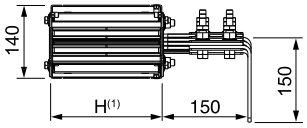
DB411581



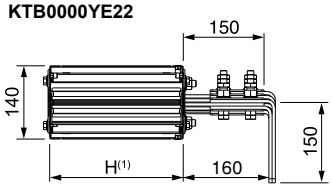
DB411582



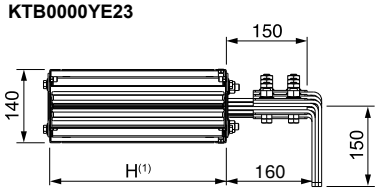
KTB0000YE1/KTB0000YE21



KTB0000YE22



KTB0000YE23



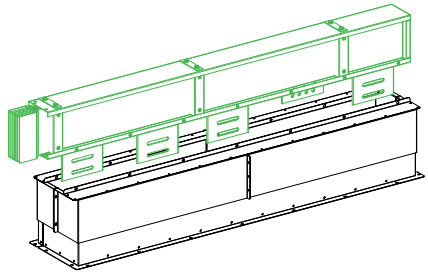
Canalis KTC 1000 to 5000

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

DD202342-G



KTB0000CR4

Type	Position of neutral	Cat. no.	Weight (kg)
Vertical cover	N1, N2, N3 and N4	**KTB0000CR4**	24.00

KTB0000CR4

DD202344

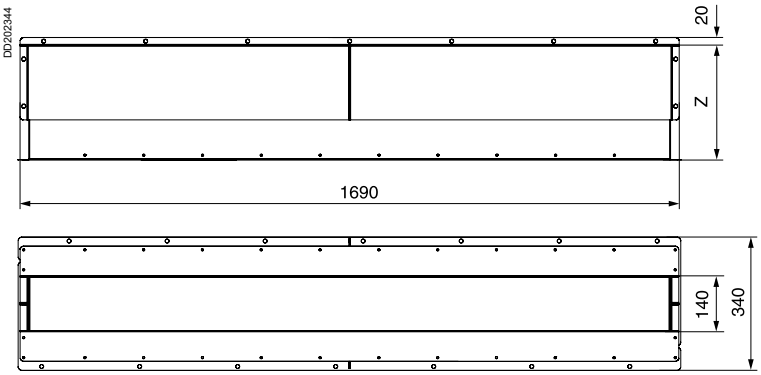
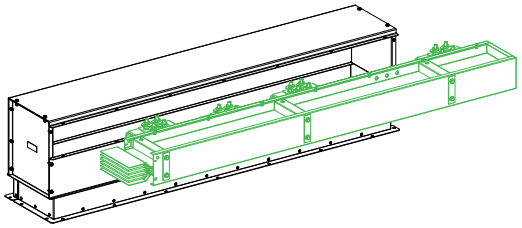


Table of dimensions

Rating (A)	Dimensions Z (mm)	
	Minimum	Maximum
1000 to 1600	200	350
2000 to 3200	200	350
4000 and 5000	200	350

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

DB411590



KTB0000CR5

Type	Position of neutral	Cat. no.	Weight (kg)
Horizontal cover	N1, N2, N3 and N4	**KTB0000CR5**	32.00

KTB0000CR5

DB411591

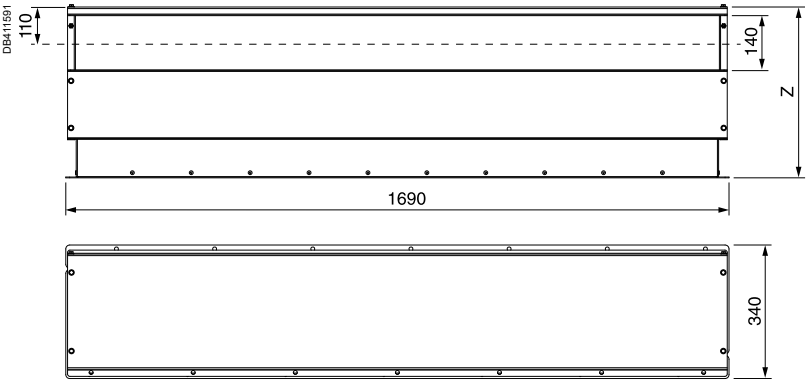


Table of dimensions

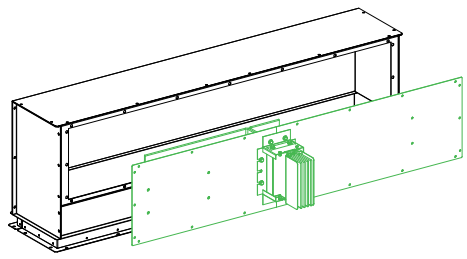
Rating (A)	Dimensions Z (mm)	
	Minimum	Maximum
1000 to 1600	370	520
2000 to 3200	370	520
4000 and 5000	370	520

Protective covers for dry-type transformers
IP55

Canalis KTC 1000 to 5000

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

DD202346-G



KTB●●●●CR6

Type	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

KTB●●●●CR6

DD202347

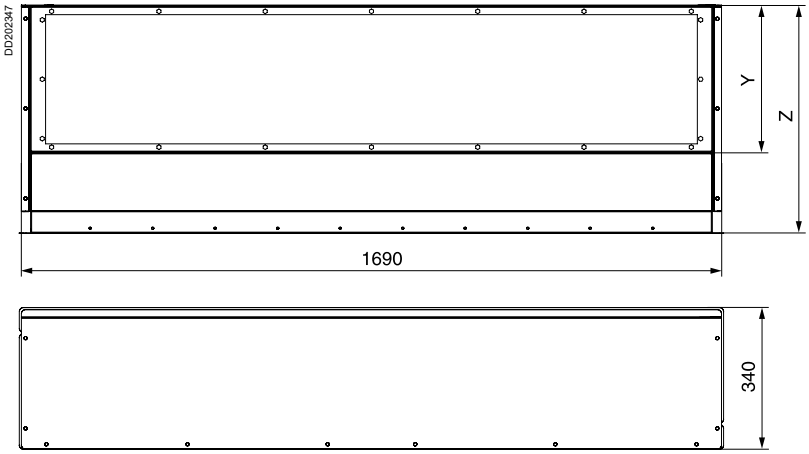
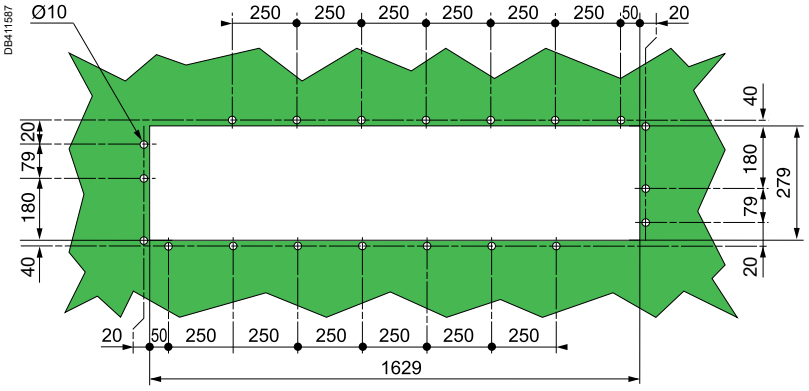


Table of dimensions

Rating (A)	Dimensions (mm)		
	Y	Z	
		Minimum	Maximum
1000 to 1600	230	380	530
2000 to 3200	350	500	650
4000 and 5000	510	660	810

Cut-out drawing for dry-type transformer feed units

DB411587

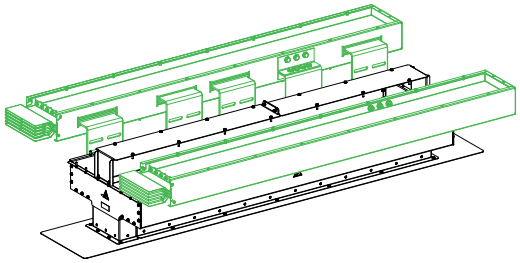


View from the top of the transformer.

Canalis KTC 6300

CR5 - Adjustable horizontal protective covers for EL, N1 and N2 feed units, flat mounting

DB428688-G



KTB0001CR5

Type	Position of neutral	Cat. no.	Weight (kg)
Horizontal cover	N1, N2	KTB0001CR5	60.00

DB428756

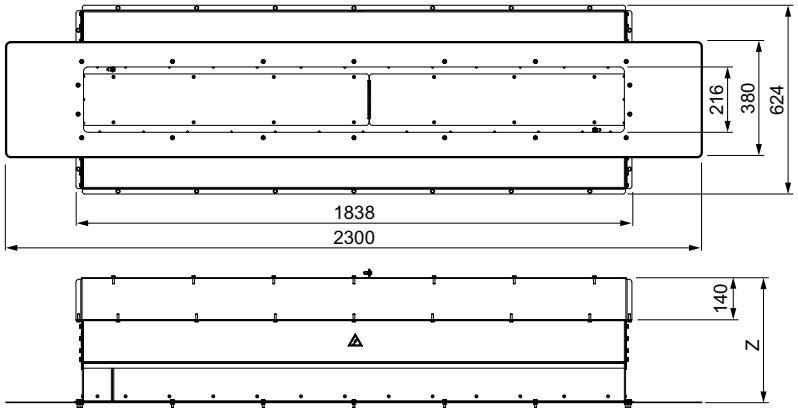


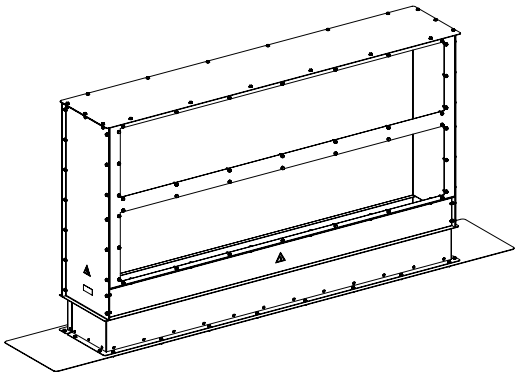
Table of dimensions

Rating (A)	Dimensions Z (mm)	
	Minimum	Maximum
6300	330	480

See "Connection to Trihal cast resin transformers", page 224.

CR6 - Adjustable horizontal protective covers for EL, N5 feed units, flat mounting

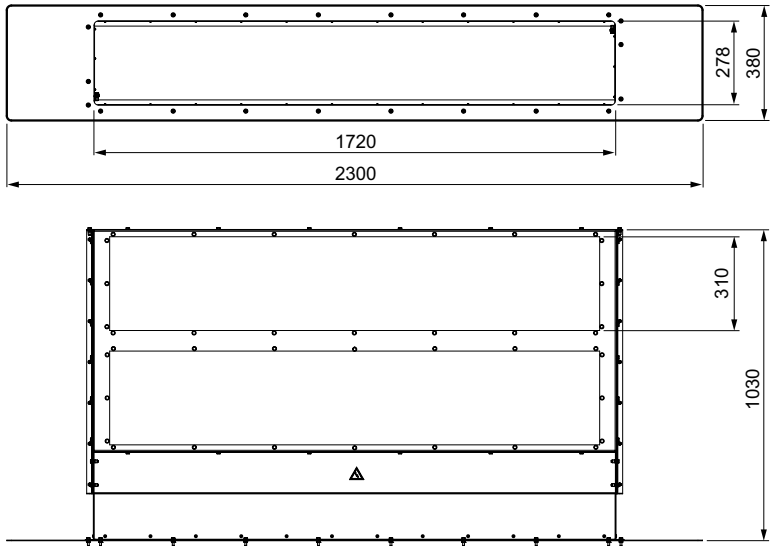
DB428765



KTB0001CR6

Type	Cat. no.	Weight (kg)
Horizontal cover	KTB0001CR6	60.00

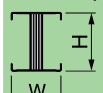
DB428690



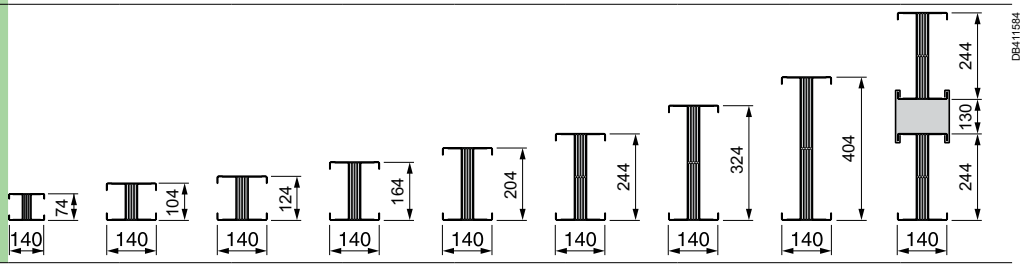
Trunking cross-section

Rating (A)		1000	1350	1600	2000	2500	3200	4000	5000	6300
Weight (kg/m)	3L + PE	19	25	29	36	44	51	66	82	102
	3L + N + PE	23	31	35	45	55	64	84	104	128
	3L + N + PER	25	33	39	49	60	71	92	114	142
Height H (mm) Width W (mm)										

DD210867



DB411584



Canalis KTC 1000 to 6300

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.

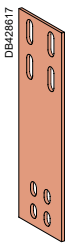
To order flexibles without drilled holes at the bottom.
Example: total length = 435 mm.
KTB0100YC305B, L=435, E=0, F=0, Y=25.

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

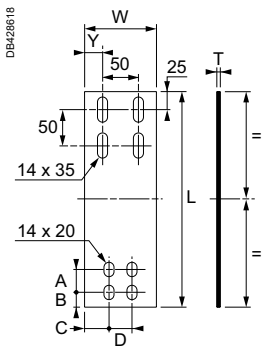
YC1 - Made to measure flexible links

Type	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm^2)	Cat. no.	Weight (kg)
Made to measure	Bare copper(2)	100	5	300 to 600	500(1)	**KTB0100YC105B**	2.7
		120	5	300 to 600	600(1)	**KTB0120YC105B**	3.2

(1) Made of 5 sheets 1 mm (100 % CU).
(2) The number of bi-metal alumunium copper connections per phase is the same as bare copper.
Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bi-metal aluminium copper.



KTB01●0YC105B
Bare copper



Dimensions

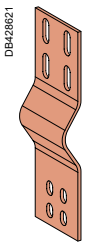
Dimensions (mm)
L
A
B
C
D
E
F
Y

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

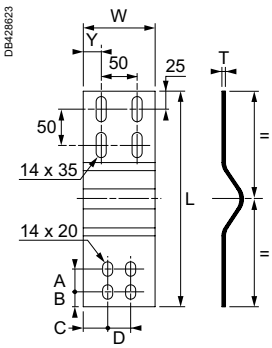
YC3 - Made to measure flexible links

Type	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm^2)	Cat. no.	Weight (kg)
Made to measure	Bare copper(2)	100	5	300 to 600	500(1)	**KTB0100YC305B**	2.7
		120	5	300 to 600	600(1)	**KTB0120YC305B**	3.2

(1) Made of 5 sheets 1 mm (100 % CU).
(2) The number of bi-metal alumunium copper connections per phase is the same as bare copper.
Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bi-metal aluminium copper.



KTB01●0YC305B
Bare copper



Dimensions

Dimensions (mm)
L
A
B
C
D
E
F
Y

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

Connection selection guide:
refer page 227 for cast resin transformer,
refer page 232 and page 234 for Minera immersed transformer

Canalis KTC 1000 to 6300

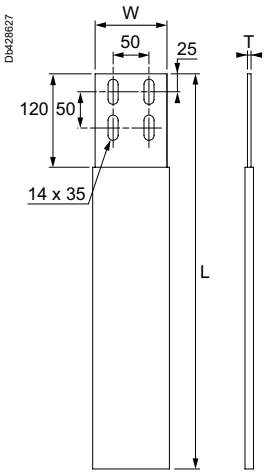
YC5 - Insulated flexible links

Type	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm^2)	Cat. no.	Weight (kg)
Fixed, insulated	Bare copper(2)	100	5	1000	500(1)	**KTB0100YC50510B**	4.5
		100	5	600	500(1)	**KTB0100YC50506B**	2.7

(1) Made of 5 sheets 1 mm (100 % CU).
(2) The number of bi-metal alumunium copper connections per phase is the same as bare copper.
Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bi-metal aluminium copper.



KTB0100YC505●●B
Insulated, bare copper



Connection selection guide:
refer page 227 for cast resin transformer,
refer page 232 and page 234 for Minera immersed transformer

Canalis KTC 1000 to 6300

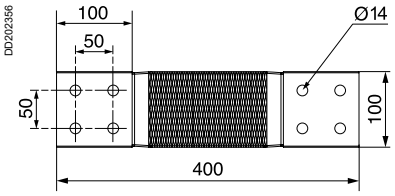
YT - Braids



KTB0000YT1

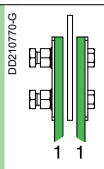
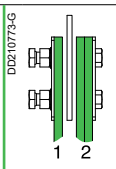
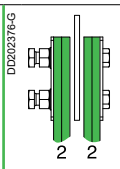
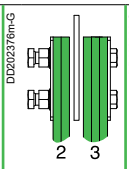
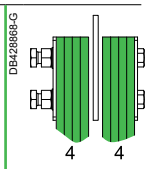
Description	Cat. no.	Weight (kg)
Connection braid	KTB0000YT1	2.80

KTB0000YT1



Determining the number of braids required

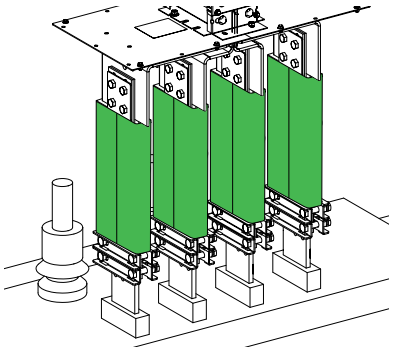
Busbar trunking rating (A)	Braids per phase	
	Number	Cross-section (mm²)
1350	2	1200
1600	2	1200
2000	2	1200
2500	3	1800
3200	3	1800
4000	4	2400
5000	5	3000
6300	8	4000

Braids					
					
Busbar trunking rating (A)	1350 to 2000	2500 to 3200	4000	5000	6300

Canalis KTC 1000 to 6300

YF - Insulating sheaths

DD205939-G



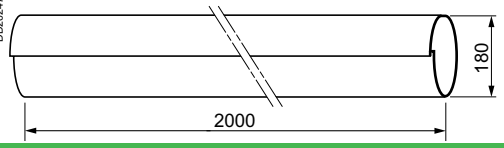
KTB0000YF1

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.

Désignation	Cat. no.	Weight (kg)
Insulating sheath	**KTB0000YF1**	1.00

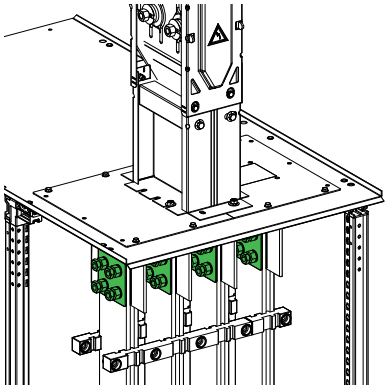
KTB0000YF1

DD202479



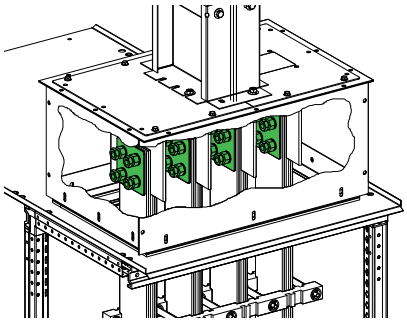
YB - Spacers and bolts

DD202363-G



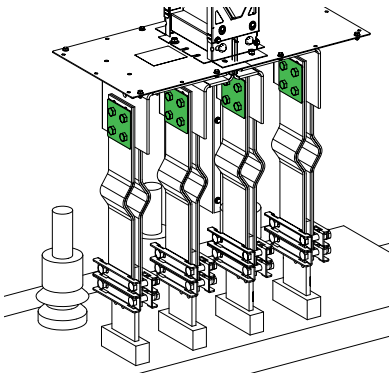
KTB0000YB2

DD230233-G



KTB0000YB3

DD202364-G



KTB0000YB4

DB428842-G

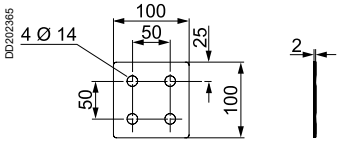


KTB0000YB5

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 plates + 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

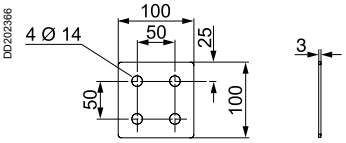
Copper spacer

DD202365



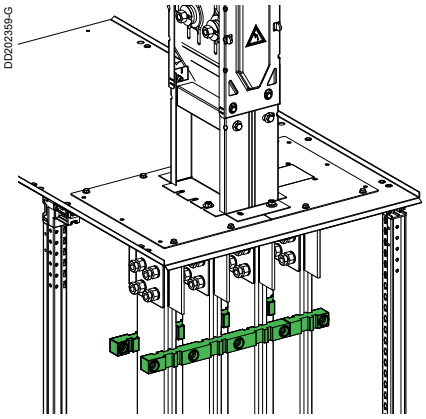
Galvanized steel spacer plates

DD202366



Canalis KTC 1000 to 6300

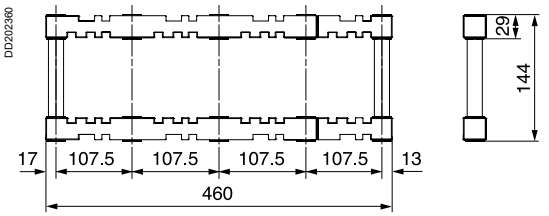
YS - Bar supports



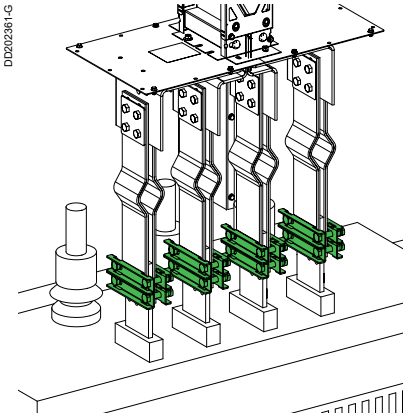
KTB0000YS1

Description	Cat. no.	Weight (kg)
Bar support, 115 mm between centres for bar of 2x5 or 10 mm	**KTB0000YS1**	2.40

KTB0000YS1



YS - Bar clamps

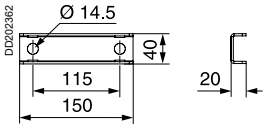


KTB0000YS●

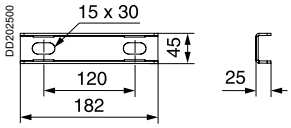
Description	Dimensions of transformer connection terminals (mm)	Cat. no.	Weight (kg)
8 bar clamps	100	**KTB0000YS2**	6.40
	120	**KTB0000YS3**	6.40

Each bar clamp includes 2 cross members and associated fixings.

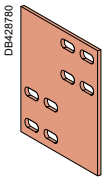
KTB0000YS2



KTB0000YS3



YP1 - Connection plate for oil immersed Minera transformer

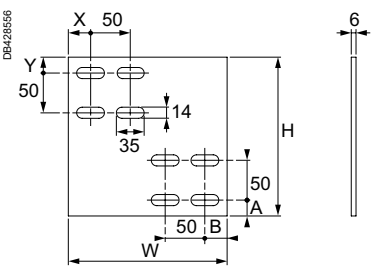


KTB0000YP1●

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 235.

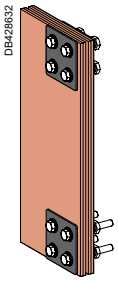
A (mm)	B (mm)	H (mm)	W (mm)	X (mm)	Y (mm)	Cat. no.	Weight (kg)
20	28	200	200	28	20	**KTB0000YP11**	2.1
20	38	200	200	38	20	**KTB0000YP12**	2.1
20	28	200	260	28	20	**KTB0000YP13**	2.8
25	25	200	200	25	21	**KTB0000YP14**	2.1



Connection selection guide, see page 233 and page 235

Canalis KTC 6300

YP2 - Connection plates for KTC6300 end feed units

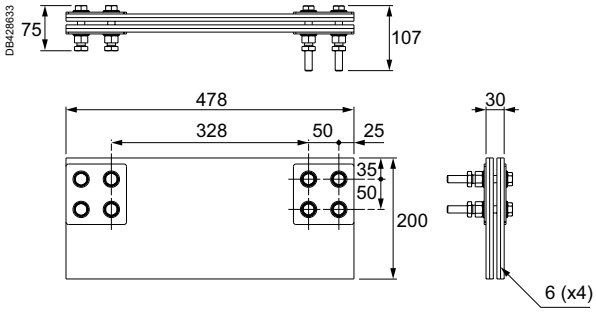


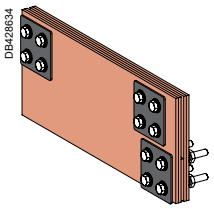
KTB0000YP21

Type YP21 for ER1 to ER6 horizontal incomer

Plates to link connection pads of 2 end feed units KTC3200 (ER1 to ER6) in order to create a KTC6300.
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.

	Cat. no.	Weight (kg)
1 set of plates and bolts for 1 phase	**KTB0000YP21**	21



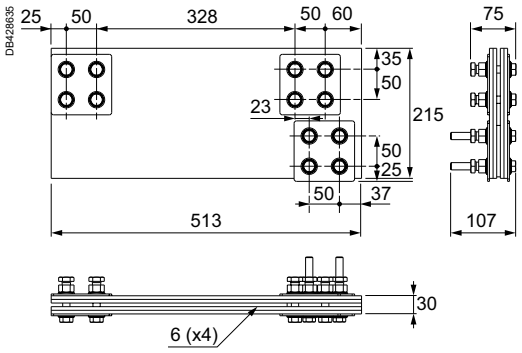


KTB0000YP22

Type YP22 for ER1 to ER6 vertical incomer

Plates to link connection pads of 2 end feed units KTC3200 (ER1 to ER6) in order to create a KTC6300.
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

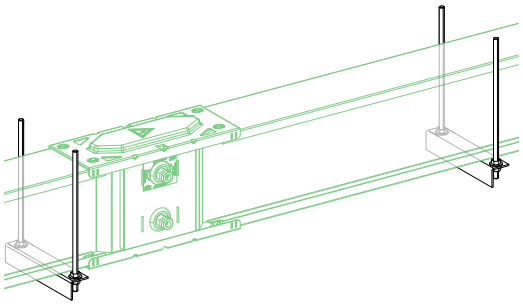


Connection selection guide, see page 233 and page 235

Canalis KTC

ZA1, ZA4 - Supports for edge wise horizontal installation

DD202372m-G

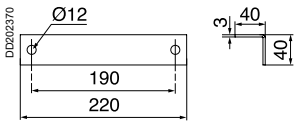


KTB0000ZA1

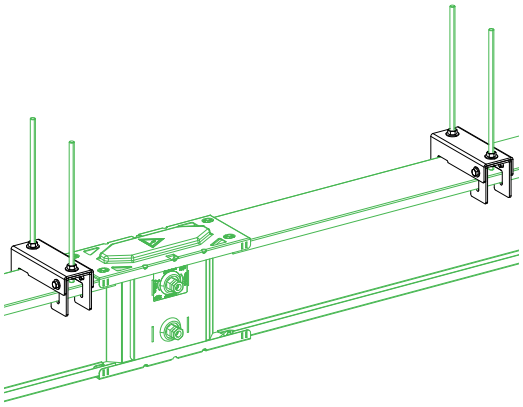
Description	Rating (A)	Busbar trunking height (mm)	Cat. no.	Weight (kg)
1 support from the bottom (threaded rods **supplied**)(1)	-	-	**KTB0000ZA1**	2.80
Set of 2 supports from the top (threaded rods **not supplied**)	1000 A	74	**KTB0074ZA4**	3.20
	1350 to 5000	104 to 404	**KTB0404ZA4**	3.80

KTB0000ZA1

DD202370



DD202368m-G



KTB●●●●ZA4

KTB●●●●ZA4

DD202371

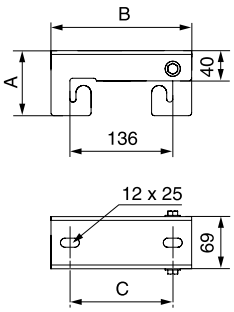


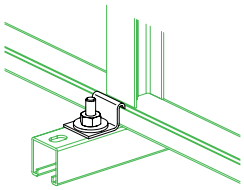
Table of dimensions

Height "H" (mm)	Dimensions (mm)		
	A	B	C
74	74	160	110
104 to 404	86	186	136

(1) Threaded rods, length = 2 metres, are supplied with the support.

ZA3 - Hooks for edge wise horizontal installation

DB411342



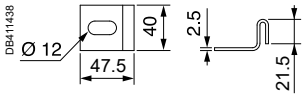
KTB0000ZA3

2 fixing grips are needed for each fixing point.

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

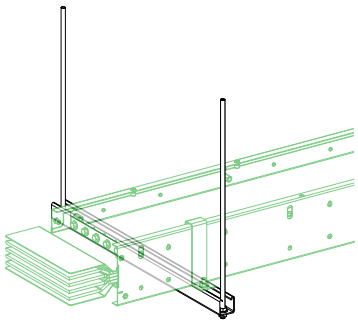
KTB000ZA3

DB411438



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

DB428770-G

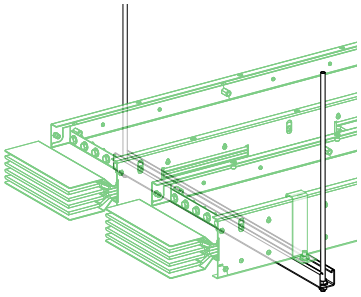


KTB●●●●ZA7

Busbar trunking rating (A)	Busbar trunking height "H" (mm)	Length L (mm)	Cat. no.	Weight (kg)
1000 to 1600(1)	74, 104, 124	280	**KTB0124ZA7**	0.6
2000, 2500(1)	164, 204	350	**KTB0204ZA7**	0.7
3200(1)	244	420	**KTB0244ZA7**	0.9
4000(1)	324	490	**KTB0324ZA7**	1
5000(1)	404	560	**KTB0404ZA7**	1.2
6300(1)	622	770	**KTB0622ZA7**	1.6
To be customized(2)	All	3000	**KTB0000ZA7**	6.5

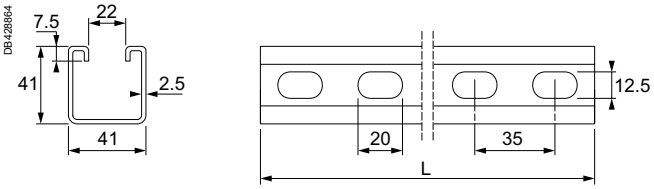
(1) Threaded rods, length = 2 meters, are supplied with the support.
(2) Threaded rods not supplied.

DB428771-G



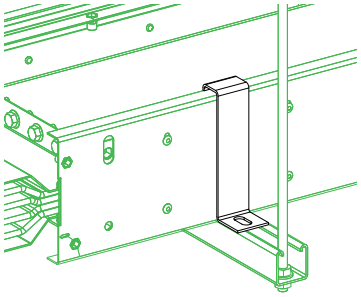
KTB0622ZA7

DB428864



ZA8 - Bracket for flat wise horizontal installation

DB428722-G



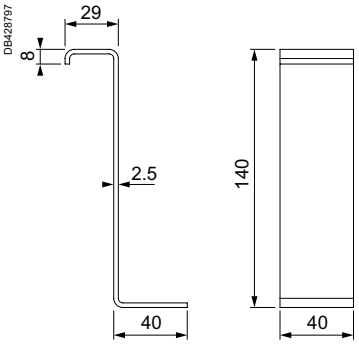
KTB0000ZA8

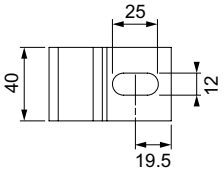
2 brackets are needed for each fixing point.

Description	Cat. no.	Weight (kg)
1 set of 8 brackets	**KTB0000ZA8**	0.14

Supplied with a spacer for fixation of KT●●●●ED●●●●.
T-bolts are not supplied with this reference.

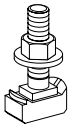
DB428797





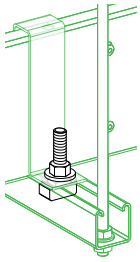
YB6 - T-Bolts

DB428911



KTB0000YB6

DB428912-G

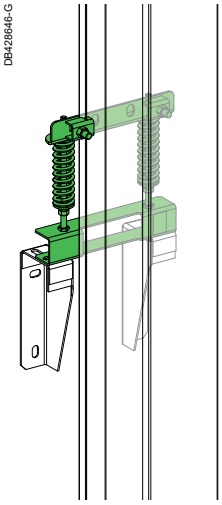


Description	Cat. no.	Weight (kg)
1 box of 50 bolts M10 x 35 for rails 41 x 41	**KTB0000YB6**	6.0

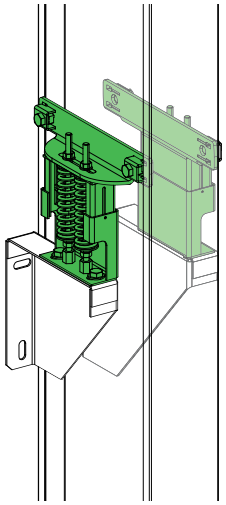
Includes T-screws, nuts and washers.

Canalis KTC

ZA5 - Vertical supports



Vertical support KTB0164ZA51

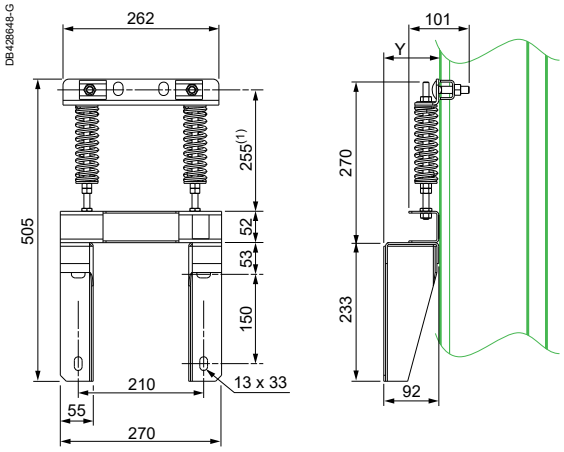


Vertical support KTB0204ZA51 to KTB0404ZA51

Description	Rating (A)	Busbar trunking height (mm)	Vertical support		Wall bracket	
			Cat. no.	Weight (kg)	Cat. no.	Weight (kg)
Fixings	1000 to 2000	74 to 164	**KTB0164ZA51**	2.1	**KTB0164ZA52**	2
	2500	204	**KTB0204ZA51**	6.9	**KTB0204ZA52**	3.2
	3200	244	**KTB0244ZA51**	7.1	**KTB0244ZA52**	3.5
	4000	324	**KTB0324ZA51**	7.6	**KTB0324ZA52**	4.2
	5000	404	**KTB0404ZA51**	8.4	**KTB0404ZA52**	4.2

For further detail see page 198.

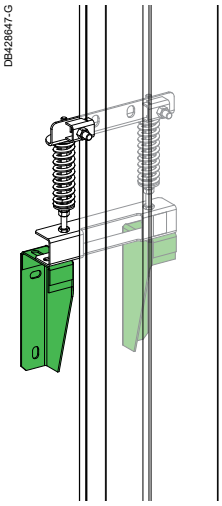
KTB0164ZA5●



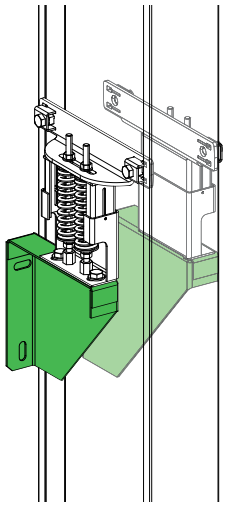
(1) Dimensions with free springs.

Table of dimensions

Rating (A)	Dimensions "Y" (mm)
All	50 < Y < 100

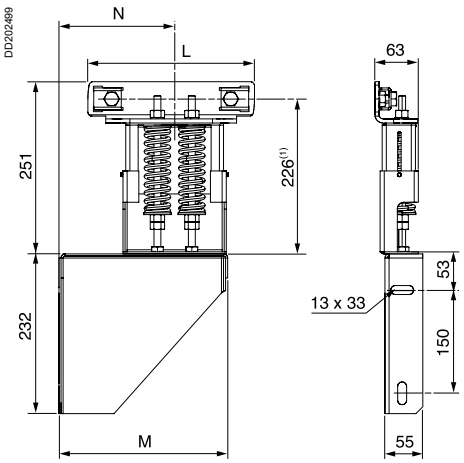


Wall bracket KTB0164ZA52



Wall bracket KTB0204ZA52 to KTB0404ZA52

KTB0204ZA5● to KTB0404ZA5●



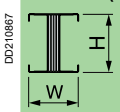
(1) Dimensions with free springs.

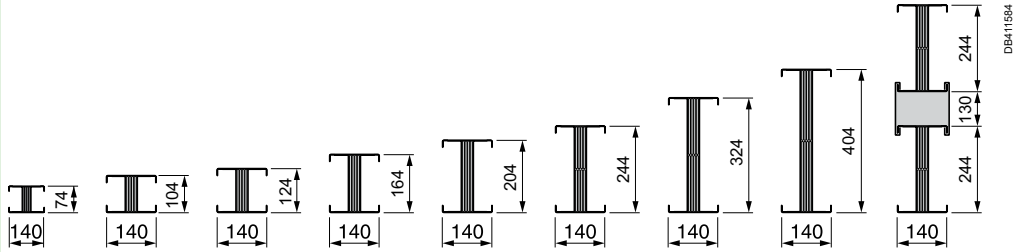
Table of dimensions

Rating (A)	Dimensions (mm)		
	L	M	N
2500	202	205	152 to 202
3200	240	245	172 to 222
4000	322	325	212 to 262
5000	402	325	252 to 302

Trunking cross-section

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm) Width W (mm)									

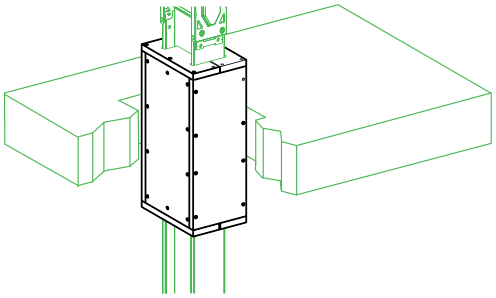




Canalis KTC 1000 to 6300

CF - Fire-barrier

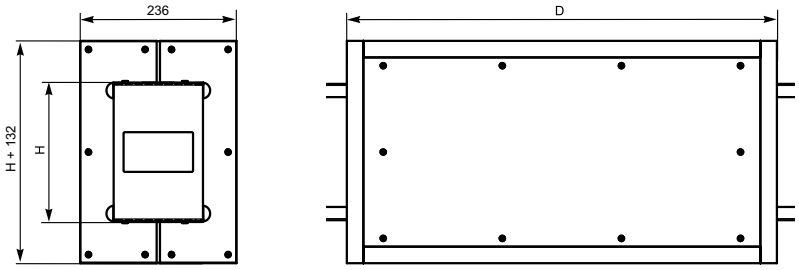
DB428883-G



Type	Busbar trunking rating (A)	Busbar trunking height "H" (mm)	Fire barrier length	Cat. no.
Fire-barrier kit	1000	74	650	**KTB0074CF6**
	1350	104	650	**KTB0104CF6**
	1600	124	650	**KTB0124CF6**
	2000	164	750	**KTB0164CF7**
	2500	204	750	**KTB0204CF7**
	3200	244	750	**KTB0244CF7**
	4000	324	950	**KTB0324CF9**
	5000	404	950	**KTB0404CF9**
	6300	244 X 2	750	**KTB0622CF7** (1)

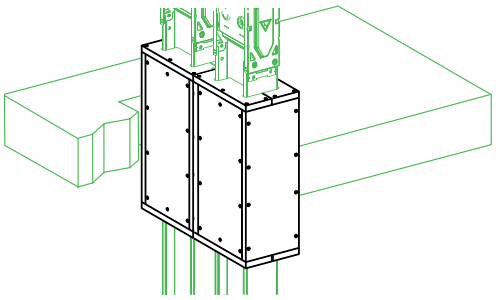
The filler material around the busbar trunking must meet the requirements currently in force to guarantee that the wall and ceiling fire-resistance class (for example DIN 1045 and DIN 1053-1) is maintained.
Filler material not supplied.
(1) This reference includes a sealant cartridge KTB0000SC1.

DB404826



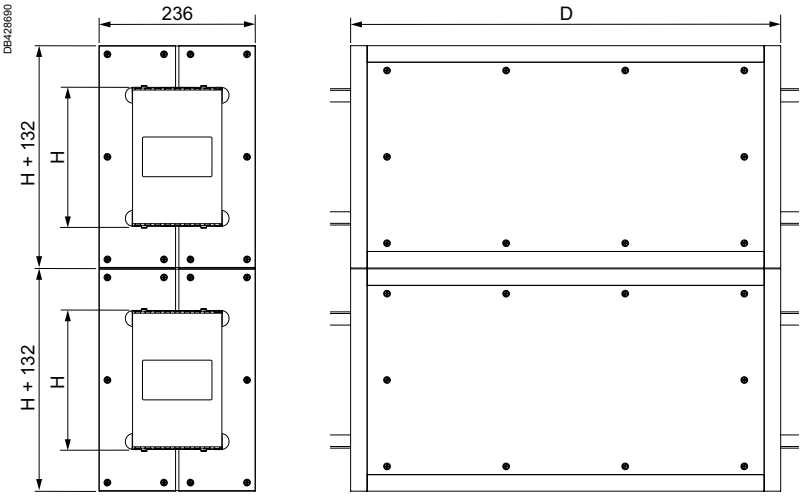
The fire barrier kit can also be made up on site by the installer according to Schneider Electric's drawings and specifications.
For further information, consult your sales office.

DB428689-G



KTB0622CF7 + KTB0000SC1

DB428690



SC - Fire-barrier sealant cartridge

DB429006



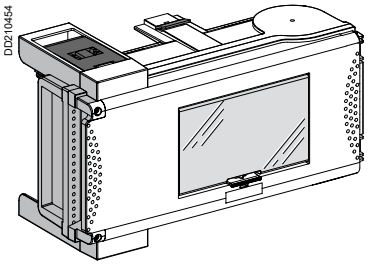
Type	Cat. no.
Fire-barrier sealant cartridge	**KTB0000SC1**

KTB0000SC1

Plug-in tap-off units (for Canalis KT Only)
For Modular devices

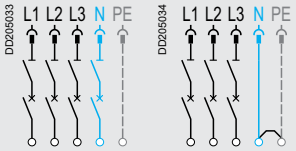
Canalis KTC

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



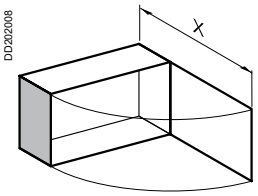
KSB63SM●8,
KSB100SM●12

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

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. circuit breaker protection)			

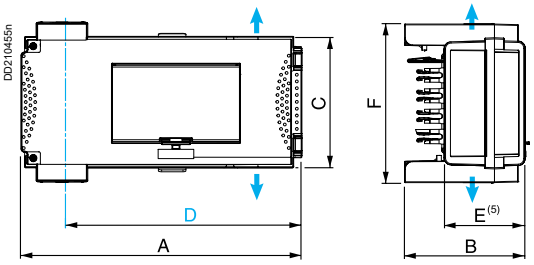
Rating (A)	Number of 18 mm modules(3)	Connection	Max. size (mm²)		Cable gland (4) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
63(5)	8	On devices	16	16	ISO 50 max.	**KSB63SM48**	**KSB63SM58**	2.40
100(5)	12	On devices	35	35	ISO 63 max.	**KSB100SM412**	**KSB100SM512**	5.00

(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) Supplied with blanking plates: 1x5 divisible (8 modules) or 2x5 divisible (12 modules).
(4) Maximum diameter for a multipolar cable.
(5) IP55 Rating.



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

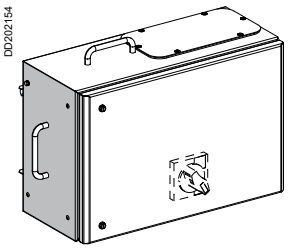
KSB63SM●8, KSB100SM●12



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

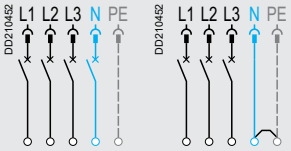
Dimensions	Rating (A)	
	63	**100**
A	357	444
B	158	183
C	167	202
D	309	397
E	108	133
F	202	220

Tap-off units for NG modular devices, not equipped



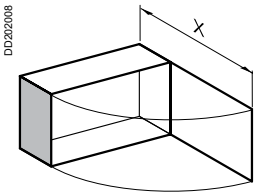
KSB160SM●13

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

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. circuit breaker protection)			

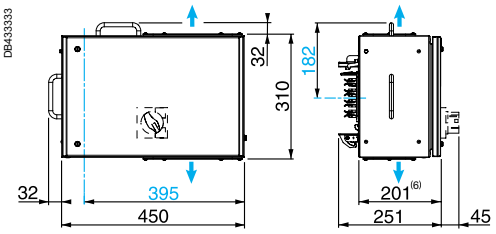
Rating (A)	Type of circuit-breaker	Connection	Max. size (mm²)		Cable gland (3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
160(5)	NG125 Rotary handle 19088 (4) NG160 Rotary handle 28060 (4)	Terminals	50	70	ISO 25 max.	**KSB160SM413**	**KSB160SM513**	8.50

(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.
(5) IP55 Rating.



X = 625.5

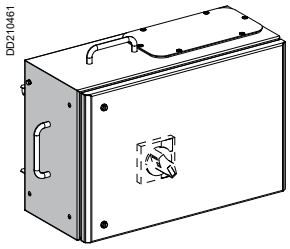
KSB160SM●13



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

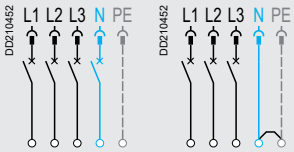
Canalis KTC

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



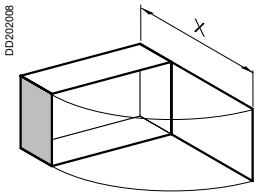
KSB●●●DC●

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

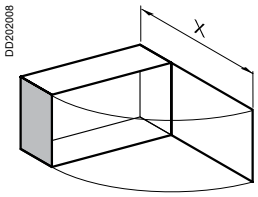
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. circuit breaker protection)			

Rating (A)	Type of circuit breaker (Not Supplied)	Connection	Max. size (mm²)		Cable gland (3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
160(4)	NSX100 or NSX160 Rotary handle LV429338T	Terminals	50	70	ISO 25 max.	**KSB160DC4**	**KSB160DC5**	9.00
250(4)	NSX250 Rotary handle LV429338T	Terminals	70	150	ISO 32 max.	**KSB250DC4**	**KSB250DC5**	12.50
400(4)	NSX400 Rotary handle LV429338T	Terminals	150	240	ISO 40 max.	**KSB400DC4**	**KSB400DC5**	18.00

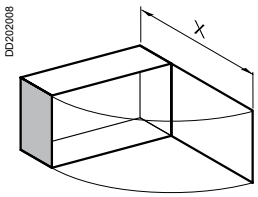
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
4) IP55 Rating.



X = 625.5

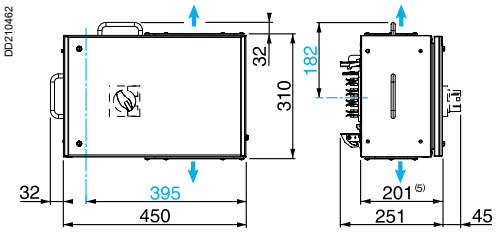


X = 726.5

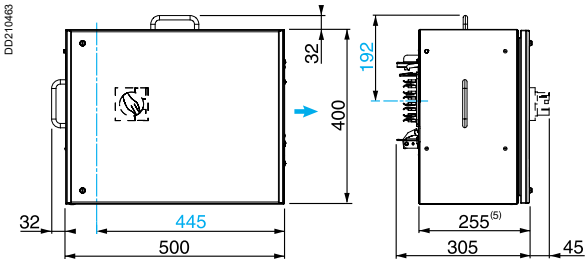


X = 976.5

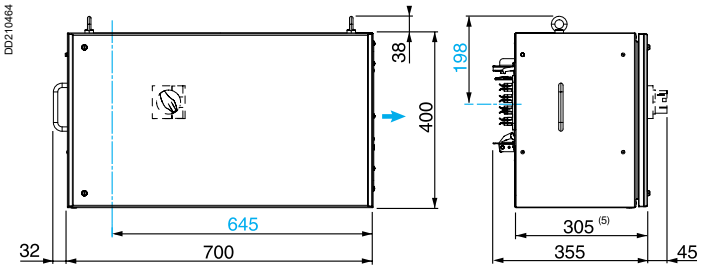
KSB160DC●



KSB250DC●



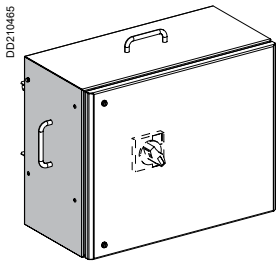
KSB400DC●



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

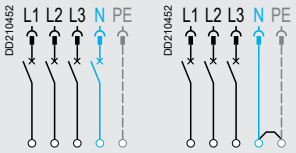
Catalogue numbers and dimensions
Plug-in tap-off units
For Compact NSX circuit breakers equipped with metering devices

Tap-off units for measurements and metering, not equipped



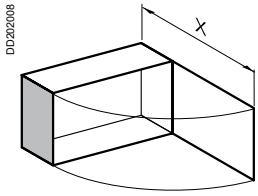
KSB●●●DC●TRE

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

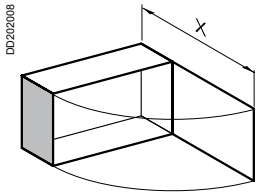
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off outlets		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. circuit breaker protection)			

Rating (A)	Type of circuit breaker (Not supplied)	Connection	Max. size (mm²)		Cable gland (3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
250(4)	NSX250 Rotary handle LV429338T	Terminals	70	150	ISO 32 max.	**KSB250DC4TRE**	**KSB250DC5TRE**	13.50
400(4)	NSX400 Rotary handle LV432598T	Terminals	150	240	ISO 40 max.	**KSB400DC4TRE**	**KSB400DC5TRE**	19.50

(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) IP55 Rating.

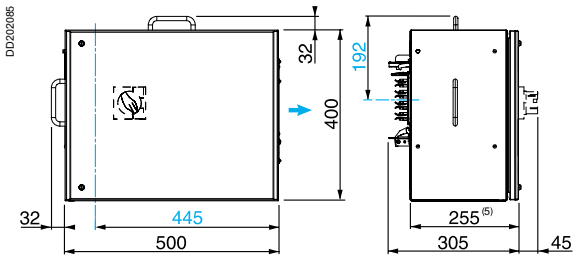


X = 726.5

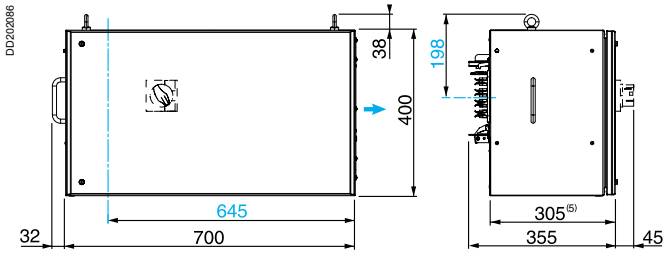


X = 976.5

KSB250DC●TRE



KSB400DC●TRE

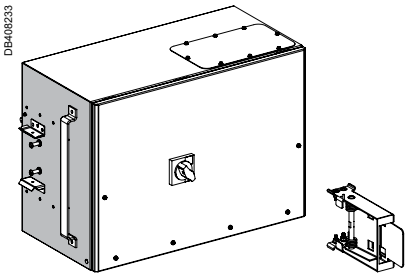


Cable exit
Centre line of tap-off outlets
(5) Protruding

Plug-in tap-off units (for Canalis KT Only)
For Compact NSX circuit breakers

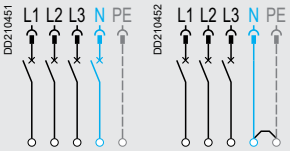
Canalis KTC

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



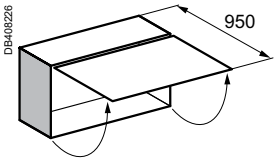
KTB0630DC●

Refer page 50, 51 for the installation of Tap off units on the KT ED outlet of different busway lengths.
The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

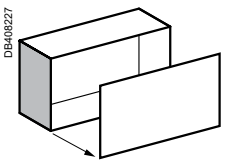
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT(1)	TNC
	Tap-off unit	TT-TNS-TNS-IT(1)	TNC
Tap-off polarity		3L + N + PE(2)	3L + PEN
Tap-off diagram (e.g. circuit breaker protection)			

Rating (A)	Type of circuit breaker (Not Supplied)	Connection	Max. size (mm²) L or N / PE	Cable gland(3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
630(4)(6)(7)	NSX630 Rotary handle LV432598T	Terminals	2 x 300 / 1 x 150	ISO 70 max.	**KTB0630DC4**		45
		Terminals	2 x 300 / 1 x 150	ISO 70 max.		**KTB0630DC5**	46

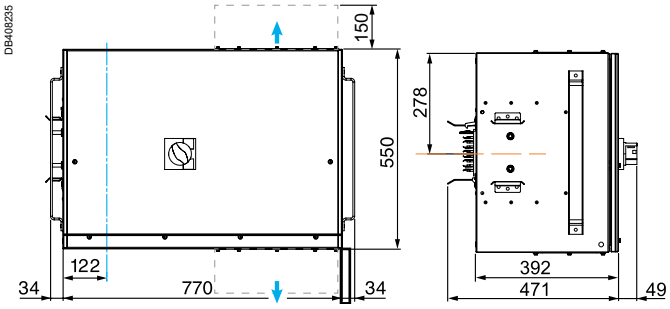
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
(4) De-rating coefficient to apply: 0.9.
(5) The auto clamping system is included in the reference and delivered in the box.
(6) To be installed on KT ED type distribution length only.
(7) IP55 Rating.
For an installation on Canalis KT delivered before 2016 contact our help desk for adaptation guidelines.



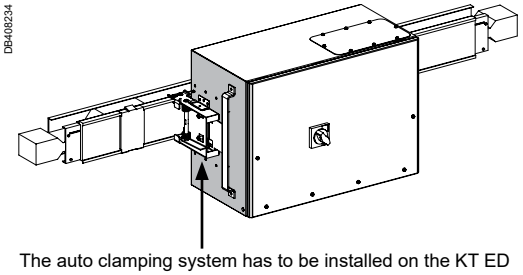
or



KTB0630DC●

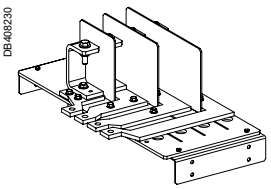


Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

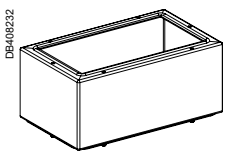


The auto clamping system has to be installed on the KT ED distribution units (5)

Option accessories	Cat. no.
Kit of connection bars	**KTB0630ZA01**
Connecting box	**KTB0630ZA04**

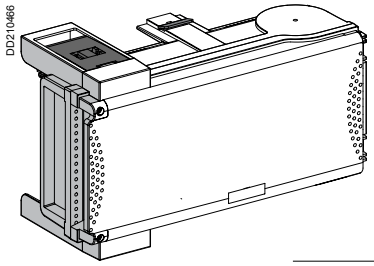


KTB0630ZA01



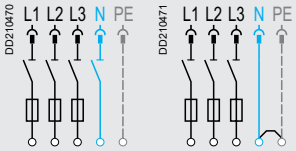
KTB0630ZA04

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



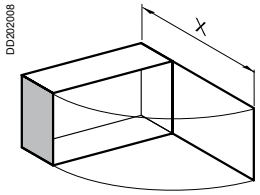
KSB●●●SF●

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

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. fuse protection)			

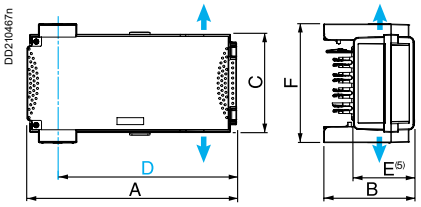
Rating (A)	For fuses (not supplied)	Connection	Max. size (mm²)		Cable gland (3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
50(4)	NF 14 x 51 Type gG: 50 A max. Type aM: 50 A max.	Terminals	25	25	ISO 50 max.	**KSB50SF4**	**KSB50SF5**	2.40
100(4)	NF 22 x 58 Type gG: 100 A max. Type aM: 100 A max.	Terminals	50	50	ISO 63 max.	**KSB100SF4**	**KSB100SF5**	5.00

(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, IT system also possible only if N not distributed).
(3) Maximum diameter for a multipolar cable.
(4) IP55 Rating.



X = 432.5 (KSB50SF●)
X = 545.5 (KSB100SF●)

KSB50SF●, KSB100SF●

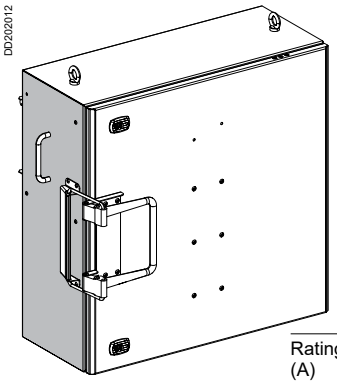


Cable exit
Centre line of tap-off outlets
(5) Protruding

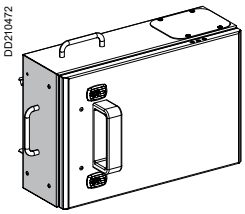
Dimensions	Rating (A)	
	50	**100**
A	356	444
B	153	178
C	167	202
D	309	397
E	103	128
F	202	220

Canalis KTC

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

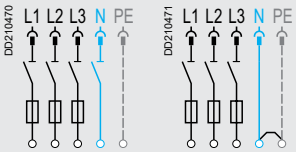


KSB400SE●



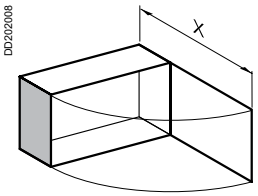
KSB160SE●
KSB250SE●

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 122).

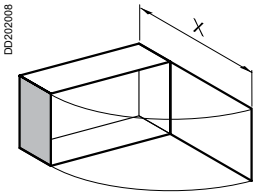
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. fuse protection)			

Rating (A)	For blade-type fuses (not supplied)	Connection	Max. size (mm²) Flexible	Max. size (mm²) Rigid	Cable gland (not supplied)	Cat. no.	Cat. no.	Weight (kg)
100(6)	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(6)	Size 00 Type gG: 160 A max. Type aM: 160 A max.	Terminals	35	50	ISO 20 (4) max.	**KSB160SE4**	**KSB160SE5**	11.00
	Size 0 Type gG: 160 A max. Type aM: 160 A max.	Terminals	35	50	ISO 20 (4) max.	**KSB160SF4**	**KSB160SF5**	11.00
250(6)	Size 1 Type gG: 250 A max. Type aM: 250 A max.	Terminals	150	150	ISO 32 (4) max.	**KSB250SE4**	**KSB250SE5**	20.00
400(6)	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).
(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 115, catalogue number KSB100SF●.
(6) IP55 Rating.

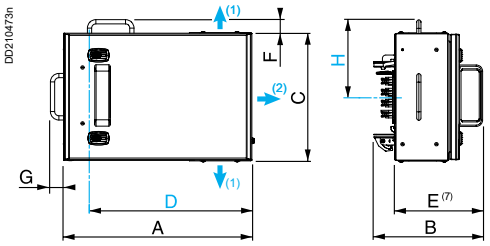


X = 577.5 (KSB160SE●)
X = 777 (KSB250SE●)



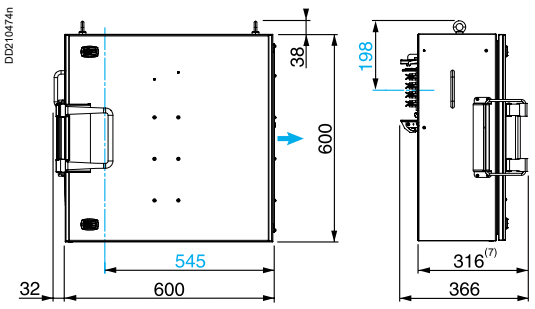
X = 855

KSB160SE●, KSB250SE●



Dimensions	Rating (A) 160	250
A	450	600
B	257	308
C	300	400
D	395	548
E	207	258
F	32	32
G	32	32
H	182	192

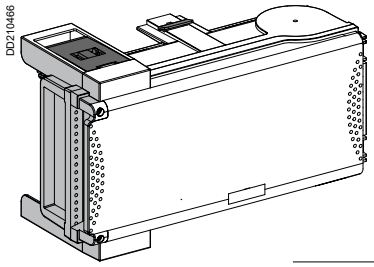
KSB400SE●



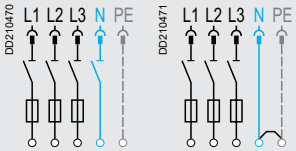
Cable exit: **(1)** exit of KSB160S●●, **(2)** exit of KSB250SE●
Centre line of tap-off outlets
(7) Protruding

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

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

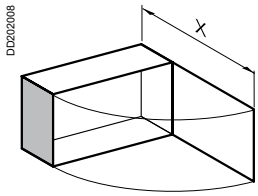


KSB●●S●●

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)	TNC
	Tap-off unit	TT-TNS-TNS-IT (1)	TNC (2)
Tap-off polarity		3L + N + PE (2)	3L + PEN
Tap-off diagram (e.g. fuse protection)			

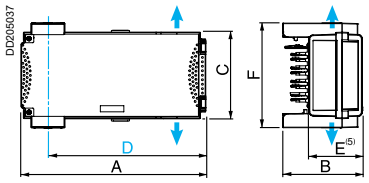
Rating (A)	For fuses (not supplied)	Connection	Max. size (mm²)		Cable gland (3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
25(4)	Diazed E27	Terminals	25	25	ISO 50 max.	**KSB25SD4**	**KSB25SD5**	2.40
50(4)	Néoezd E18	Terminals	25	25	ISO 50 max.	**KSB50SN4**	**KSB50SN5**	2.40
63(4)	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.
(4) IP55 Rating.



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

KSB●●S●●

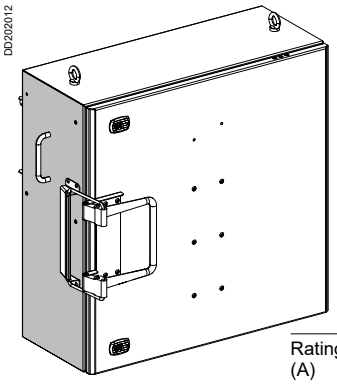


Cable exit
Centre line of tap-off outlets
(5) Protruding

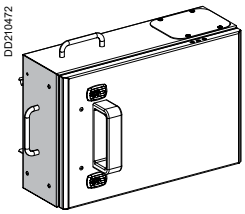
Dimensions	Rating (A)	
	25 and 50	**63**
A	356	444
B	153	178
C	167	202
D	309	397
E	103	198
F	202	220

Canalis KTC

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

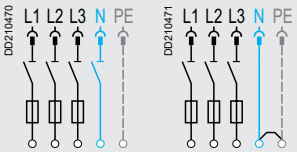


KSB400SE●



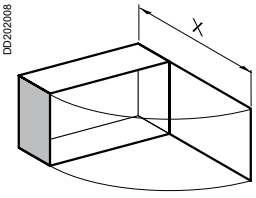
KSB160SE●
KSB250SE●

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 122).

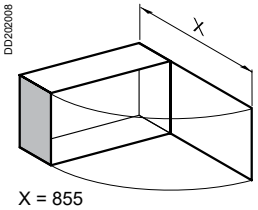
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1) TNC
	Tap-off unit	TT-TNS-TNS-IT (1) TNC
Tap-off polarity		3L + N + PE (2) / 3L + PEN
Tap-off diagram (e.g. fuse protection)		

Rating (A)	For blade-type fuses (not supplied)	Connection	Max. size (mm²)		Cable gland (not supplied)	Cat. no.	Cat. no.	Weight (kg)
			Flexible	Rigid				
100(6)	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(6)	Size 00 Type gG: 160 A max. Type aM: 160 A max.	Terminals	35	50	ISO 20 (4) max.	**KSB160SE4**	**KSB160SE5**	11.00
250(6)	Size 1 Type gG: 250 A max. Type aM: 250 A max.	Terminals	150	150	ISO 32 (4) max.	**KSB250SE4**	**KSB250SE5**	20.00
400(6)	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).
(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 115, catalogue number KSB100SF●.
(6) IP55 Rating.

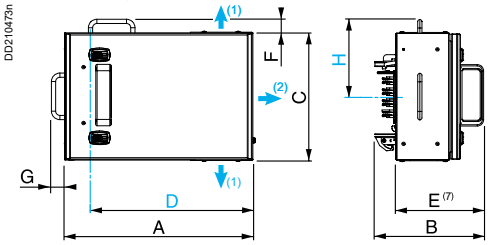


X = 577.5 (KSB160SE●)
X = 777 (KSB250SE●)



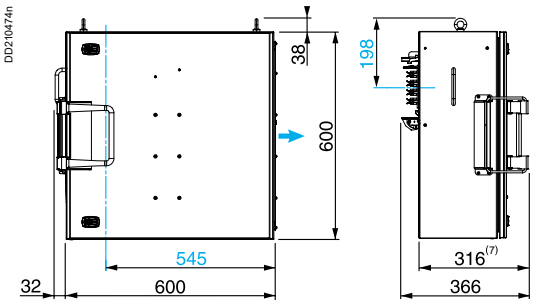
X = 855

KSB160SE●, KSB250SE●



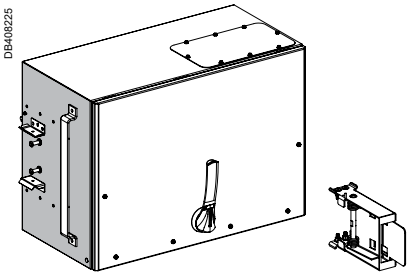
Dimensions	Rating (A)	
	160	250
A	450	600
B	257	308
C	300	400
D	395	548
E	207	258
F	32	32
G	32	32
H	182	192

KSB400SE●



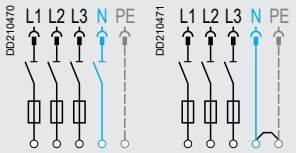
Cable exit: **(1)** exit of KSB160S●●, **(2)** exit of KSB250SE●
Centre line of tap-off outlets
(7) Protruding

SD - Tap-off units with switch-disconnector



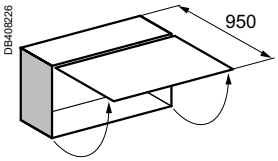
KTB0630SD●

Refer page 50, 51 for the installation of Tap off units on the KT ED outlet of different busway lengths.
The cover of the tap-off unit may be opened or closed only when the switch-disconnector is in the Off position.

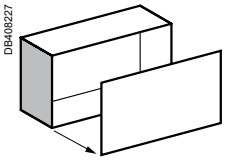
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT(1)	TNC
	Tap-off unit	TT-TNS-TNS-IT(1)	TNC
Tap-off polarity		3L + N + PE(2)	3L + PEN
Tap-off diagram (e.g. fuse protection)			

Rating (A)	Type of fuses	Connection	Max. size (mm²) L or N / PE	Cable gland(3) (not supplied)	Cat. no.	Cat. no.	Weight (kg)
630(4)(6)(7)	DIN size 3	Terminals	2 x 300 / 1 x 150	ISO 70 max.	**KTB0630SD4**		64
		Terminals	2 x 300 / 1 x 150	ISO 70 max.		**KTB0630SD5**	68

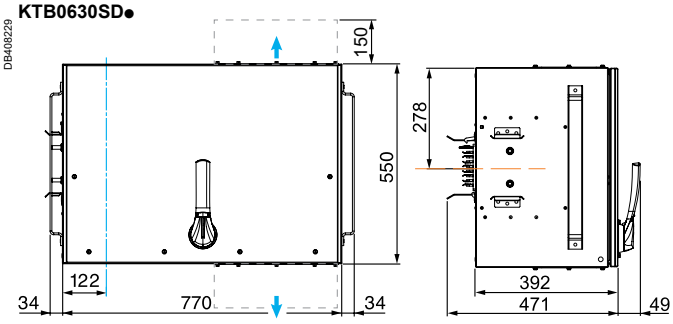
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
(4) De-rating coefficient to apply: 0.87.
(5) The auto clamping system is included in the reference and delivered in the box.
(6) To be installed on KT ED type distribution length only.
(7) IP55 Rating.
For an installation on Canalis KT delivered before 2016 contact our help desk for adaptation guidelines.



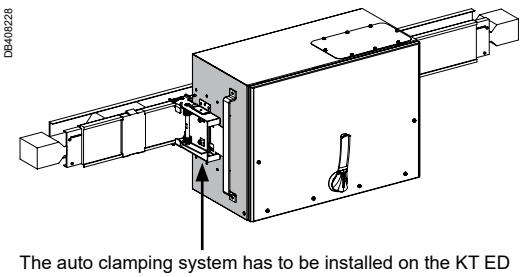
or



KTB0630SD●

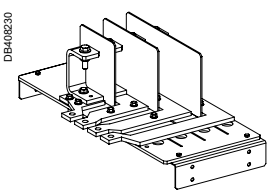


Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

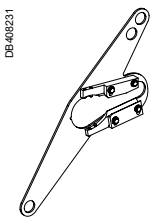


The auto clamping system has to be installed on the KT ED distribution units (5)

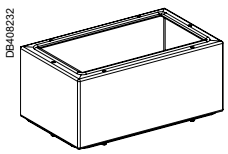
Option accessories	Cat. no.
Kit of connection bars	**KTB0630ZA02**
Extension rotary handle	**KTB0630ZA03**
Connecting box	**KTB0630ZA04**



KTB0630ZA02



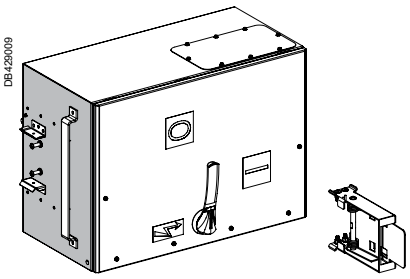
KTB0630ZA03



KTB0630ZA04

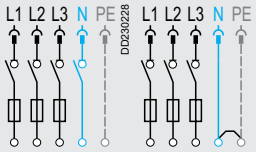
Canalis KTC

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



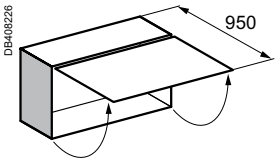
KTB0630SE●

Refer page 50, 51 for the installation of Tap off units on the KT ED outlet of different busway lengths.
The cover of the tap-off unit may be opened or closed only when the switch-disconnector is in the Off position.
To be installed on KT ED type distribution length only.

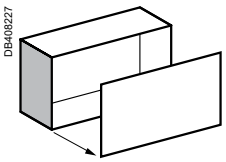
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT(1) TNC
	Tap-off unit	TT-TNS-TNS-IT(1) TNC
Tap-off polarity		3L + N + PE(2) / 3L + PEN
Tap-off diagram (e.g. fuse protection)		

Rating (A)	Type of fuses	Connection	Max. size (mm²) L or N / PE (kg)	Cable gland(3) (not supplied)	Cable exit side	Cat. no.	Cat. no.	Weight (kg)
630(4)(6)	DIN size 3	Terminals	2 x 300 / 1 x 150	ISO 70 max.	Right	**KTB0630SE4R**		72
					Left	**KTB0630SE4L**		72
					Right		**KTB0630SE5R**	78
					Left		**KTB0630SE5L**	78

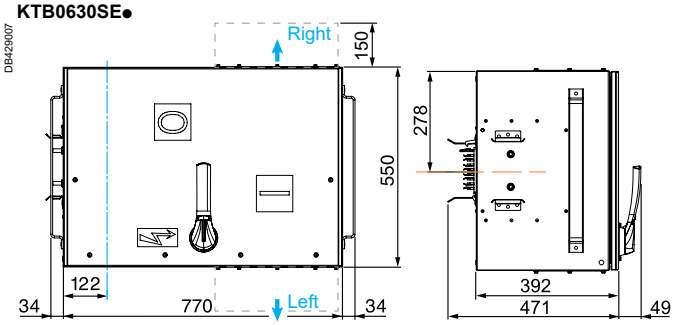
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
(4) De-rating coefficient to apply: 0.87.
(5) The auto clamping system and the kit of connection bars are included in the reference and delivered in the box.
(6) IP55 Rating.
For an installation on Canalis KT delivered before 2016 contact our help desk for adaptation guidelines.



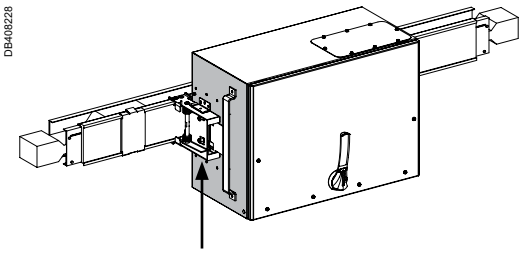
or



KTB0630SE●

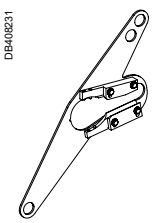


Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

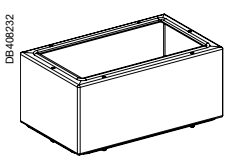


The auto clamping system has to be installed on the KT ED distribution units (5)

Option accessories	Cat. no.
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



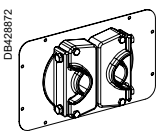
KTB0630ZA04



KTB0000GP01



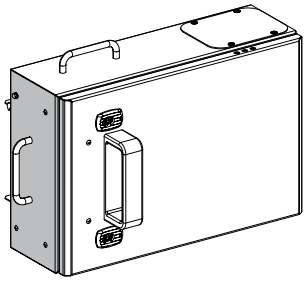
KTB0000GP02



KTB0000GP03

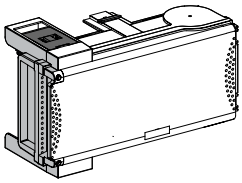
Tap-off units for screw-mounted fuses
Disconnection by unplugging the tap-off unit

DD202013



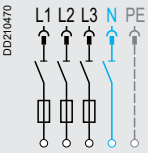
KSB160SG4

DD202014



KSB●●SG4

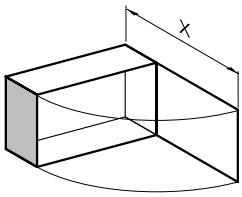
Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised.

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT (1)
	Tap-off unit	TT-TNS-TNS-IT (1)
Tap-off polarity		3L + N + PE (2)
Tap-off diagram (e.g. fuse protection)		DD210470 

Rating (A)	For fuses (not supplied)	Connection	Max. size (mm²)		Cable gland (not supplied)	Cat. no.	Weight (kg)
			Flexible	Rigid			
32(5)	BS88 A1	Terminals	25	25	ISO 50 (3) maxi.	**KSB32SG4**	2.40
80(5)	BS88 A1 or A3	Terminals	35	50	ISO 63 or ISO 20 (3) maxi.	**KSB80SG4**	5.00
160(5)	BS88 B1 or B2	Terminals	35	50	ISO 20 (4) maxi.	**KSB160SG4**	11.00

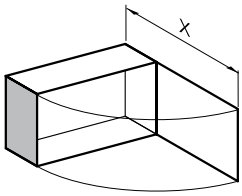
(1) The neutral must be not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed).
(3) Maximum diameter for a multipolar cable.
(4) Maximum diameter for a unipolar cable.
(5) IP55 Rating.

DD202008



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

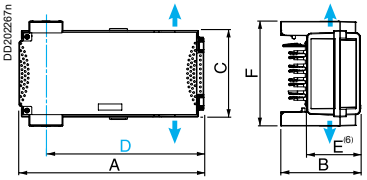
DD202008



X = 577.5

KSB32SG4, KSB80SG4

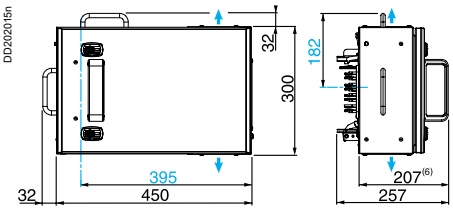
DD202267n



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

KSB160SG4

DD202015n



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

Accessories for tap-off units from Canalis KS range
IP55

Canalis KTC

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)	**LVS08905**	-
	Set of 12 labels (H = 24 mm, W = 432 mm)	**LVS08903**	-
	Set of 12 divisible labels (H = 24 mm, W = 650 mm)	**LVS08907**	-

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

Accessories for all sheet-metal tap-off units

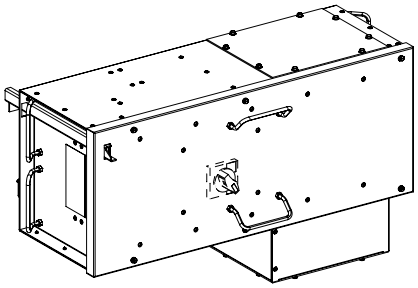
Designation	For tap-off unit	Order in multiples of	Cat. no.	Weight (kg)
Cover contact (break before opening)	KSB100S● to KSB400S●	1	**KSB400ZC1**	0.03

Catalogue numbers and dimensions
Bolted tap-off units
For Compact NSX/NS circuit breakers

CB - Bolted tap-off units for Compact NSX/NS with front connections(1)

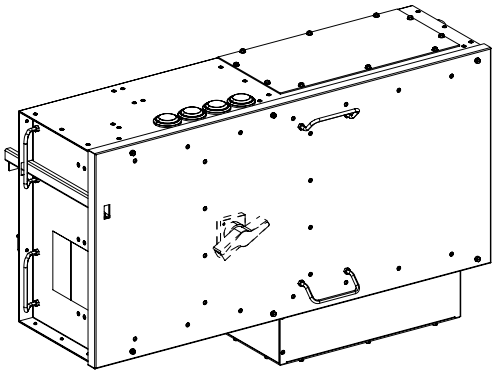
		Tap-off polarity		3L + PE	3L + N + PE 3L + N + PER	3L + PEN	
		Tap-off diagram (e.g. circuit breaker protection)		DD230225 L1 L2 L3 PE	DD210451 L1 L2 L3 N PE	DD210452 L1 L2 L3 N PE	
Rating (A)	Type of circuit breaker(2)	Max. connection capacity (mm²)		Cat. no.			Weight (kg)
		Phases and neutral	PE				
400(5) to 630(5)	NSX400 or NSX630(3) Rotary handle LV432598	3 x 300	150	**KTB0630CB3**	**KTB0630CB4**	**KTB0630CB5**	35.00
800(5) to 1000(5)	NSX800 or NSX1000(4) Rotary handle 33878	4 x 300	200	**KTB1000CB3**	**KTB1000CB4**	**KTB1000CB5**	45.00
1250(6)	NSX1250 Rotary handle 33878	4 x 300	240	**KTB1250CB3**	**KTB1250CB4**	**KTB1250CB5**	50.00

DD202451



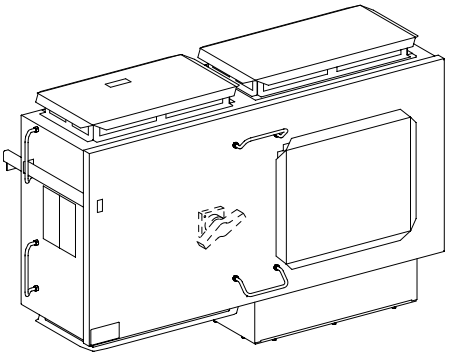
KTB0630CB●

DD202497



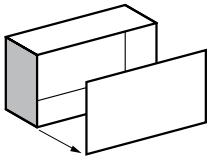
KTB1000CB●

DD230206



KTB1250CB●

DD210880



(1) Installation KTC●●●●EB●●● bolted section only.
(2) Circuit breaker and rotary handle not supplied.
(3) De-rating cœfficient to apply on NSX630A: 0.94.
(4) It is recommended a derating factor of 0.93 be applied when using a Compact NS1000 **type L** circuit breaker.
(5) IP54 only.
(6) IP31 only.

KTB●●●●CB● from 400 to 1000 A

DD210462

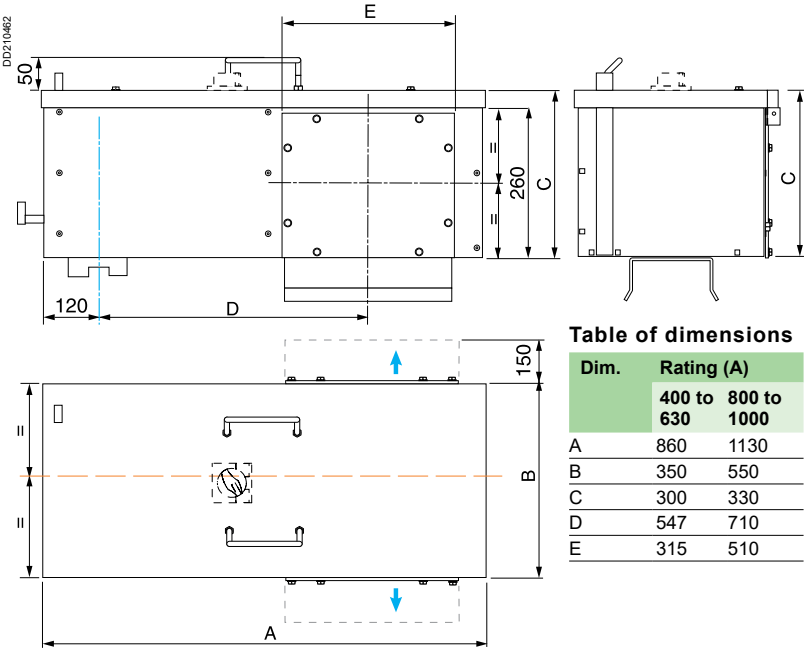
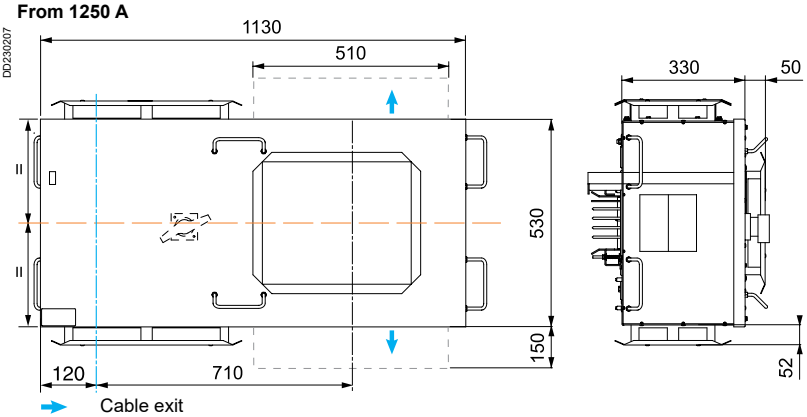


Table of dimensions

Dim.	Rating (A)	
	400 to 630	800 to 1000
A	860	1130
B	350	550
C	300	330
D	547	710
E	315	510

From 1250 A

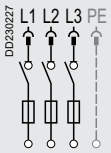
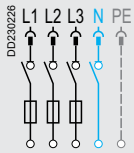
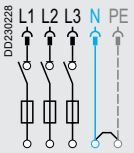
DD230207



Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

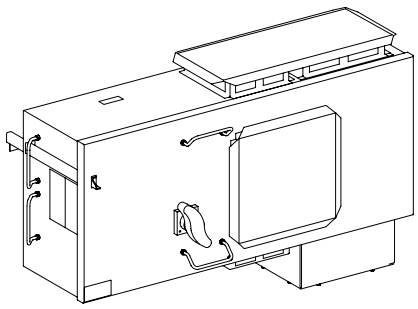
Canalis KTC

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

		Tap-off polarity		3L + PE	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 capacity (mm^2)		Cat. no.			Weight (kg)
		Phases and neutral	PE				
630(3)(5)	T3	3 x 300	150	KTB0630HF3	KTB0630HF4	KTB0630HF5	54.00
1000(3)(4)(5)	T4	4 x 300	200	KTB1000HF3	KTB1000HF4	KTB1000HF5	96.00

(1) Installation KTC●●●●EB●●● bolted section only.
(2) Switch-disconnectors and rotary handle **supplied**.
(3) Derating coefficient to apply: 0.8.
(4) KTB1000HF● cannot be installed on EB straight lengths.
(5) IP31 Rating.

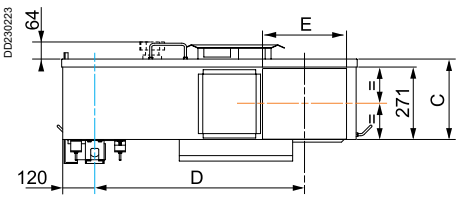
DD230200

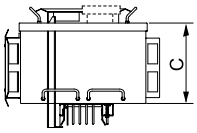


KTB0630HF●

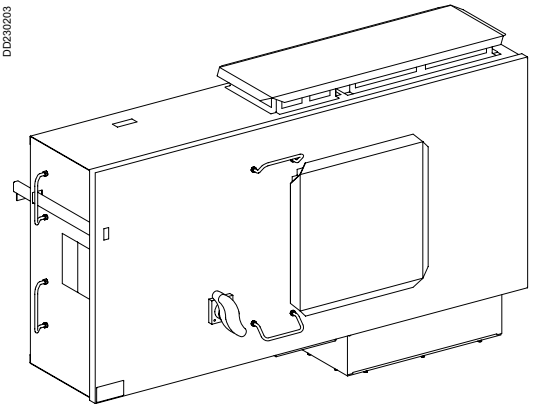
KTB●●●●HF●

DD230223





DD230203



KTB1000HF●

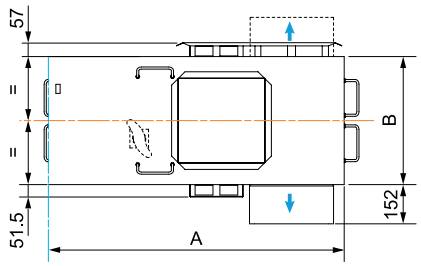
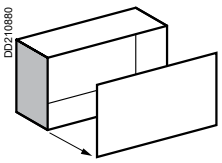


Table of dimensions

Dim.	Rating (A)	
	630	1000
A	1108	1438
B	480	690
C	300	330
D	786.5	1010
E	315	510

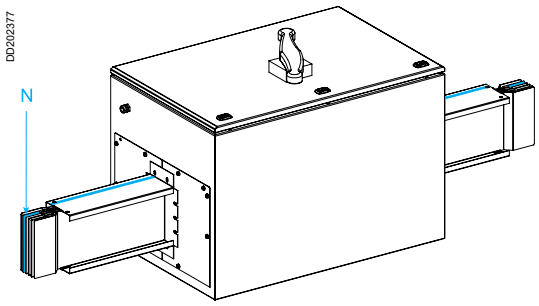
DD210880



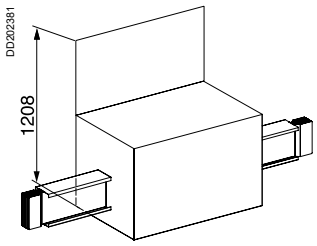
Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

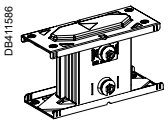
Catalogue numbers and dimensions
Coupling isolators from 1000 to 2500 A

SL - Compact NS type NA coupling isolators



KTC●●●●SL●1

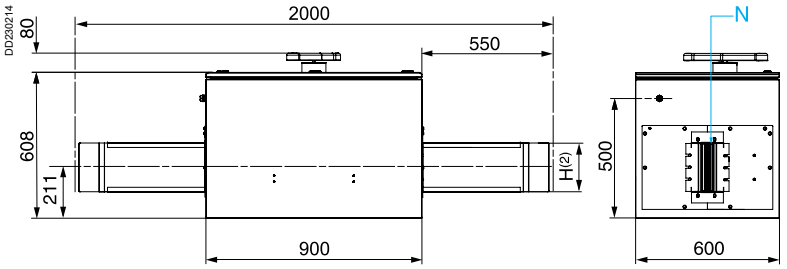




Fits equally on ducting in a flat position, on the edge (door accessible from above or below) or vertically.
Tap-off unit door locking is achieved using a door key lock.

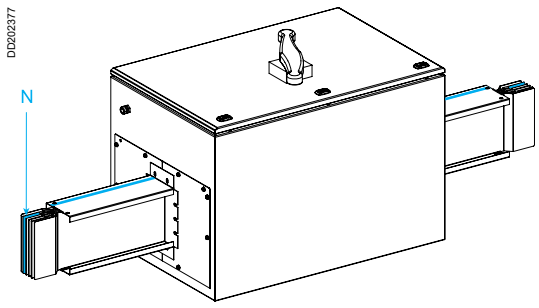
Rating (A)	Type of isolator (supplied)	Cat. no.			Weight (kg)
		3L + PE	3L + N + PE	3L + N + PER(3)	
1000(4)	NS1000 NA	**KTC1000SL31**	**KTC1000SL41**	**KTC1000SL51**	150.00
1350(1)(4)	NS1250 NA	**KTC1350SL31**	**KTC1350SL41**	**KTC1350SL51**	165.00
1600(4)	NS1600 NA	**KTC1600SL31**	**KTC1600SL41**	**KTC1600SL51**	180.00

KTC●●●●SL●1

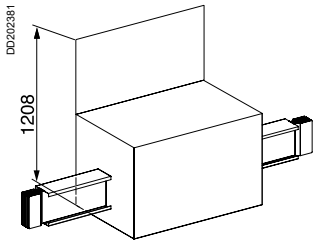


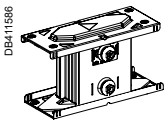
(1) Rated current: 1250 A.
(2) See the "Trunking cross-section" table below.
(3) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●SL51 by KTC●●●●SL71.
(4) IP55 Rating.

SL - Interpact INV coupling isolators



KTC●●●●SL●1

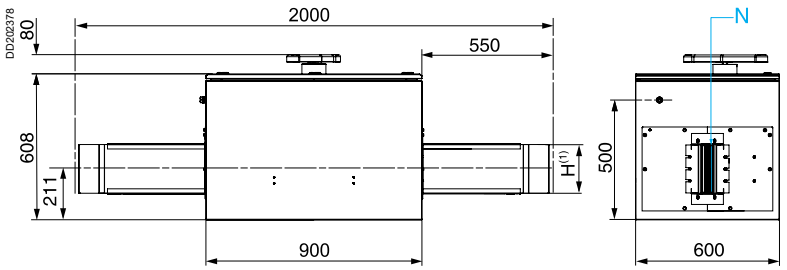




Fits equally on ducting in a flat position, on the edge (door accessible from above or below) or vertically.
Tap-off unit door locking is achieved using a door key lock.

Rating (A)	Type of isolator (supplied)	Cat. no.			Weight (kg)
		3L + PE	3L + N + PE	3L + N + PER	
2000(2)	INV2000	**KTC2000SL31**	**KTC2000SL41**	**KTC2000SL51**	200.00
2500(2)	INV2500	**KTC2500SL31**	**KTC2500SL41**	**KTC2500SL51**	210.00

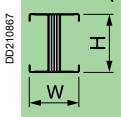
KTC●●●●SL●1

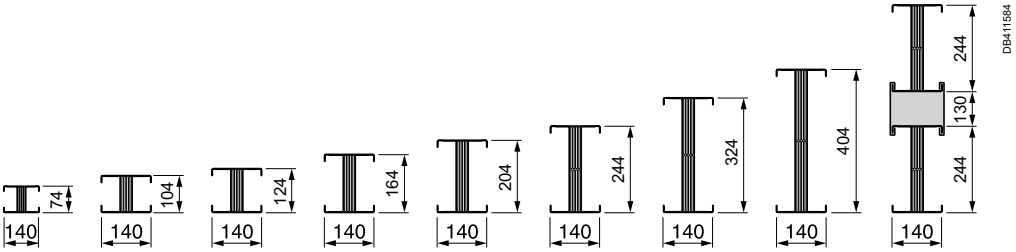


(1) See the "Trunking cross-section" table below.
(2) IP55 Rating.

Trunking cross-section

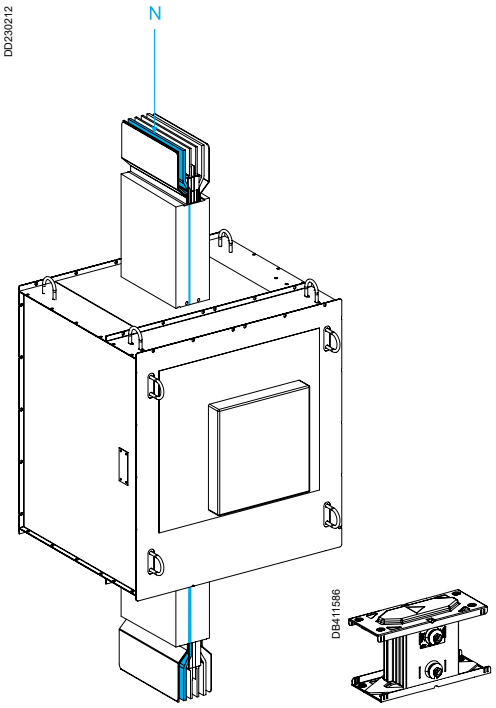
Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm) Width W (mm)	74	104	124	164	204	244	324	404	244 / 130 / 244
	140	140	140	140	140	140	140	140	140





Canalis KTC

SL - Masterpact NW coupling isolators



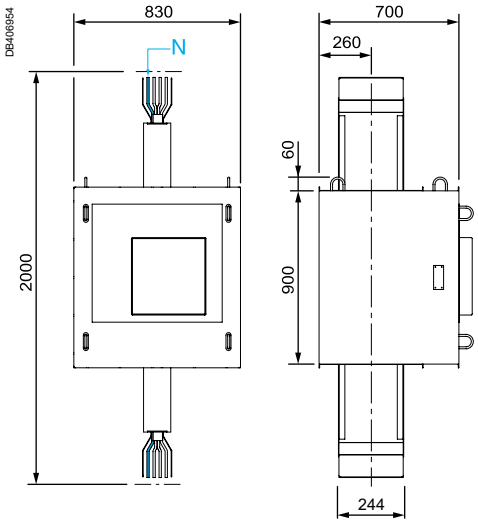
KTC3200SL●1

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 (A)	Type of isolator (supplied)	Cat. no.			Weight (kg)
		3L + PE	3L + N + PE	3L + N + PER(1)	
3000(2)(3)	NW3200 HA	**KTC3200SL31**	**KTC3200SL41**	**KTC3200SL51**	360.00

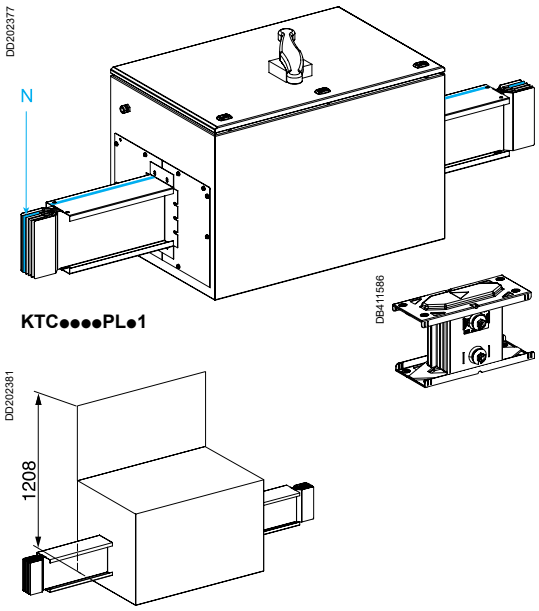
(1) To order the 3L + N +PER version with reinforced Isc, replace KTC●●●●SL51 by KTC●●●●SL71.
(2) The use of this coupling isolator requires derating the busway run to 3000 A.
(3) IP55 Rating.

KTC3200SL●1



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

PL - Protection of the run using Compact NS circuit breakers

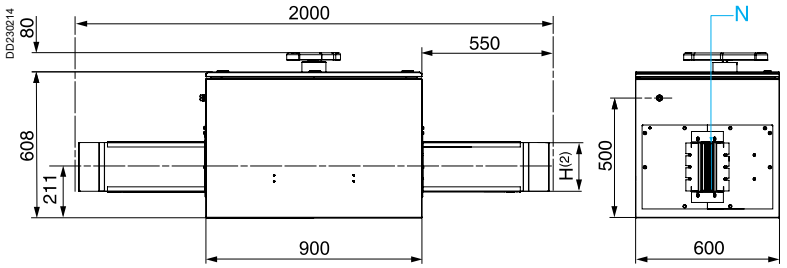


KTC●●●●PL●1

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 (A)	Type of isolator[3] (supplied)	Cat. no.			Weight (kg)
		3L + PE	3L + N + PE	3L + N + PER[4]	
1000[5]	NS1000 N	**KTC1000PL31**	**KTC1000PL41**	**KTC1000PL51**	150.00
1350[1][5]	NS1250 N	**KTC1350PL31**	**KTC1350PL41**	**KTC1350PL51**	165.00
1600[5]	NS1600 N	**KTC1600PL31**	**KTC1600PL41**	**KTC1600PL51**	180.00

KTC●●●●PL●1



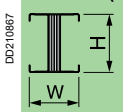
(1) Rated current: 1250 A.
(2) See the "Trunking cross-section" table below.
(3) Manual fixed compact NS circuit breakers type N equipped with a Micrologic 2.0 control unit.
(4) To order the 3L + N + PER version with reinforced Isc, replace KTC●●●●PL51 by KTC●●●●PL71.
(5) IP55 Rating.

Protection of a run > 1600 A

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

Trunking cross-section

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm) Width W (mm)	74	104	124	164	204	244	324	404	244 / 130 / 244
	140	140	140	140	140	140	140	140	140

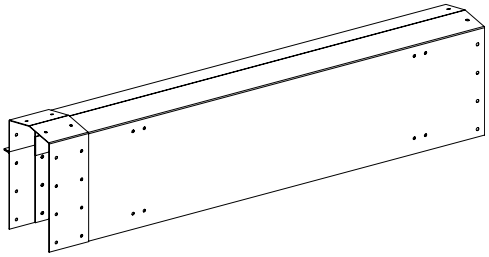


Canalis KTC

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

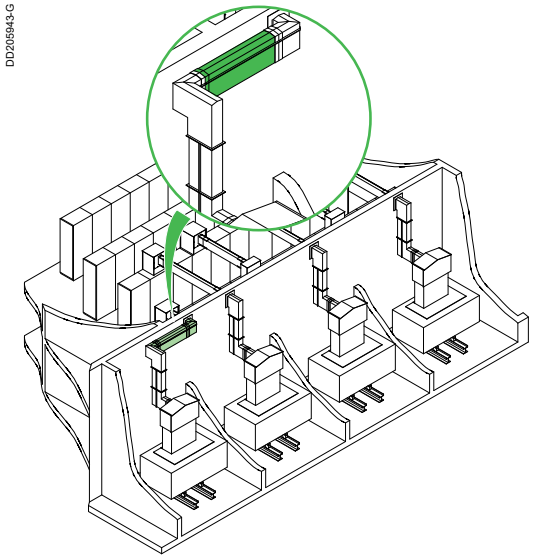
Double skin aluminium enclosure

DD210884



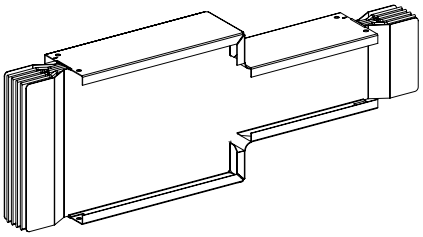
For outdoor applications.

DD205943-G

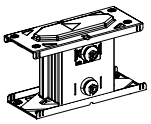


Reduction sections

DD210883



DB411586



NOTE: Bigger rating Junction Block is supplied.

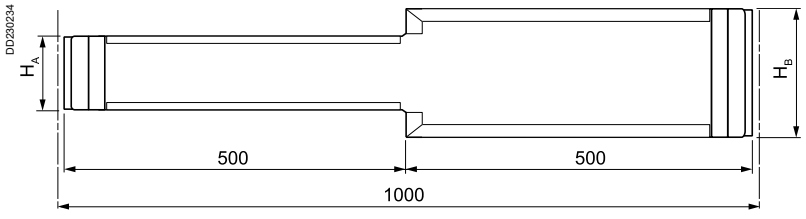
For reducing busbar trunking ratings.
Note: must be used in conjunction with appropriate protection.

Table of sizes

H_A	H_B							
	74	104	124	164	204	244	324	404
74								
104								
124								
164								
204								
244								
324								
404								

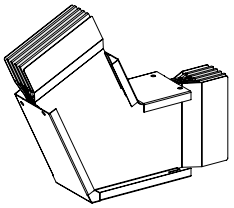
Available.

DD230234



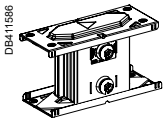
Edgewise elbow with made to measure angles

DD210817



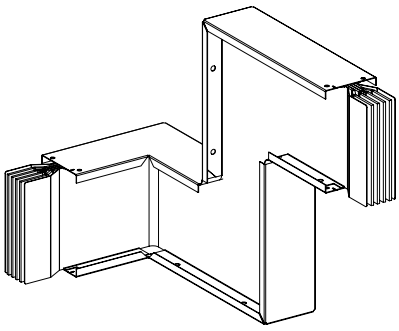


DB411586

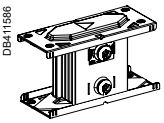


4-limb zed unit

DD210885

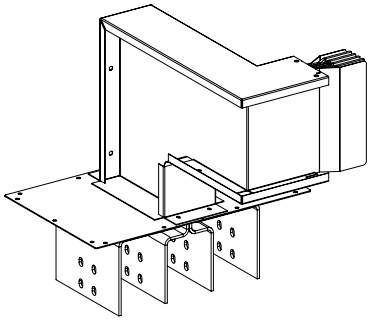


DB411586



Edgewise/flat elbow feed unit

DD210881



On demand

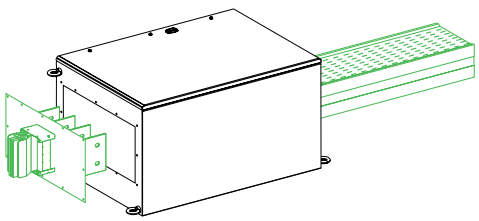
- Surface treatment on conductors for corrosive atmospheres.
- Special colours.
- Seaworthy packaging.
- etc.

Canalis KH substitution by Canalis KT
KTC/KGF connection elements

Canalis KTC or KGF

HT - Connection elements

DB401490-G



KTB0●●●HT0

Ratings	Cat. no.			
	3L + PE	3L + N + PE	3L + N + PER	Weight (kg)
See the table below	**KTB0350HT01**	**KTB0350HT01**	**KTB0350HT01**	63.00
	KTB0350HT02	**KTB0350HT02**	**KTB0350HT02**	80.00
	KTB0510HT01	**KTB0510HT01**	**KTB0510HT01**	88.00
	KTB0510HT02	**KTB0510HT02**	**KTB0510HT02**	127.00
	KTB0510HT03	**KTB0510HT03**	**KTB0510HT03**	137.00

End feed units (J, K, M = 115) are not included in the reference and must be ordered separately.

DB402128-G

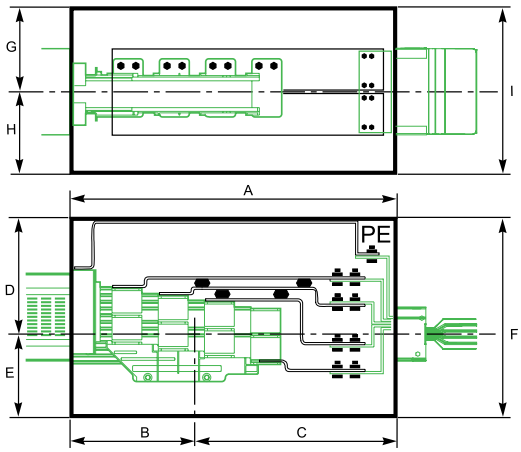
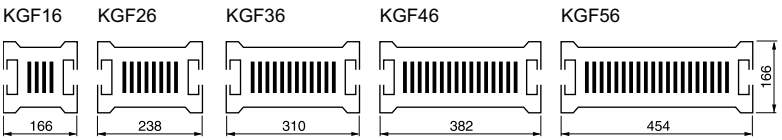
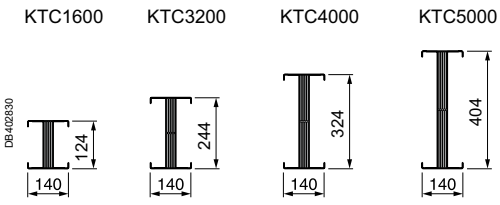


Table of dimensions

	A	B	C	D	E	F	G	H	I
KTB0350HT01	850	331.5	518.5	300	300	600	258	208	466
KTB0350HT02	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

KGF type	Rating	L busway	KT type	Rating	H busway	H flange	Connection ref.
KGF16	1600	166	**KTC1600**	1600	124	230	**KTB0350HT01**
KGF26	2750	238	**KTC3200**	3200	244	350	**KTB0350HT02**
KGF36	3750	310	**KTC4000**	4000	324	510	**KTB0510HT01**
KGF46	5000	382	**KTC5000**	5000	404	510	**KTB0510HT02**
KGF56	5000	454		Line extension with KT is not possible			





DB402830

KGF Polarity	KTC Polarity
3L + PE	3L + PE
3L + 1/2N + PE	3L + N + PE
3L + N + PE	3L + N + PE
3L + N + PER (1)	3L + N + PER

DB402831

(1) Version with 120 mm² cu conductor or entire conductor.

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

Plug-in tap-off units

Protection type	Polarity	Rating	Catalogue number	Status	Substitued by
Isolator and fuse carriers	3L + PE	160	KH016SD13	Removed	KHB0250SE5
		250	KH025SD13	Removed	KHB0250SE5
		400	KH040SD13	Removed	KHB0630SE5R or KHB0630SE5L
		630	KH063SD13	Removed	KHB0630SE5R or KHB0630SE5L
	3L + N + PE	160	KH016SD14	Removed	KHB0250SE4
		250	KH025SD14	**Removed**	KHB0250SE4
		400	KH040SD14	Removed	KHB0630SE4R or KHB0630SE4L
		630	KH063SD14	**Removed**	KHB0630SE4R or KHB0630SE4L
	3L + PEN	160	KH016SD15	Removed	KHB0250SE5
		250	KH025SD15	**Removed**	KHB0250SE5
		400	KH040SD15	Removed	KHB0630SE5R or KHB0630SE5L
		630	KH063SD15	**Removed**	KHB0630SE5R or KHB0630SE5L
			KH063SD1530758	Removed	KHB0630SE5R or KHB0630SE5L
	3L + NP + PE	160	KH016SD24	Removed	No
		250	KH025SD24	Removed	No
		400	KH040SD24	Removed	No
		630	KH063SD24	Removed	No
Switch and fuse carriers	3L + PE	200	KH020SD33	Removed	KHB0250SE5
		315	KH031SD33	Removed	KHB0630SE5R or KHB0630SE5L
		500	KH050SD33	Removed	KHB0630SE5R or KHB0630SE5L
	3L + N + PE	50	KH005SD34	Removed	KHB0250SE4
		100	KH010SD34	Removed	KHB0250SE4
		200	KH020SD34	Removed	KHB0250SE4
		250	KH025SE341	**Removed**	KHB0250SE4
		315	KH031SD34	Removed	KHB0630SE4R or KHB0630SE4L
		400	KH040SE341	**Removed**	KHB0630SE4R or KHB0630SE4L
		500	KH050SD34	Removed	KHB0630SE4R or KHB0630SE4L
		630	KH063SE341	**Removed**	KHB0630SE4R or KHB0630SE4L
	3L + PEN	50	KH005SD35	Removed	KHB0250SE5
		100	KH010SD35	Removed	KHB0250SE5
		200	KH020SD35	Removed	KHB0250SE5
		250	KH025SE351	**Removed**	KHB0250SE5
		315	KH031SD35	Removed	KHB0630SE5R or KHB0630SE5L
		400	KH040SE351	**Removed**	KHB0630SE5R or KHB0630SE5L
		500	KH050SD35	Removed	KHB0630SE5R or KHB0630SE5L
		630	KH063SE351	**Removed**	KHB0630SE5R or KHB0630SE5L
	3L + NP + PE	200	KH020SD44	Removed	No
		315	KH031SD44	Removed	No
		500	KH050SD44	Removed	No
Circuit breaker manuel	3L + N + PE	160	KH016SD541	Removed	KH025SD541
		250	KH025SD541	Preserved	-
		400	KH040SD541	Removed	KH063SD541
		630	KH063SD541	Preserved	-
	3L + PEN	160	KH016SD551	Removed	KH025SD551
		250	KH025SD551	Preserved	-
		400	KH040SD551	Removed	KH063SD551
		630	KH063SD551	Preserved	-
Circuit breaker electrical control	3L + N + PE	160	KH016SD542	Removed	No
		250	KH025SD542	**Removed**	No
		400	KH040SD542	Removed	No
		630	KH063SD542	**Removed**	No
	3L + PEN	160	KH016SD552	Removed	No
		250	KH025SD552	**Removed**	No
		400	KH040SD552	Removed	No
		630	KH063SD552	**Preserved**	No
Muller Isolator	3L + N + PE	630	KH063SD841	Removed	No
	3L + PEN	100	KH010SD85	**Removed**	KHB0250SE5
		250	KH025SD85	**Removed**	KHB0250SE5
		400	KH040SD85	**Removed**	KHB0630SE5R or KHB0630SE5L
		630	KH063SD85	**Removed**	KHB0630SE5R or KHB0630SE5L
			KH063SD8502	Removed	KHB0630SE5R or KHB0630SE5L
Muller Isolator + Pelha	3L + PEN	400	KH040SD9502	Preserved	-
		630	KH063SD9502	Preserved	-
Dumeco switch	-	-	KH0SD108919802	Removed	No
			KH0SD108919803	Removed	No
			KH0SD108920002	Removed	No
			KH0SD108922201	Removed	No
			KH0SD108922202	Removed	No
Other	3L + N + PE	100	KH0SD107080401	Removed	No
		60	KH0SD107076901	Removed	No
	3L + PEN	100	KH0SD107080402	Removed	No
	-	60	KH0SD107076902	Removed	No
		400	KH0SD1530710	Removed	No

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

Canalis KTC

Bolted tap-off units

Protection	Polarity	Rating	Catalogue number	Status	Substitued by
Isolator and fuse carriers	3L + PE	160	KH016SB131	Removed	No
			KH016SB132	Removed	No
		250	KH025SB131	**Removed**	No
			KH025SB132	**Removed**	No
		400	KH040SB131	Removed	No
			KH040SB132	Removed	No
		630	KH063SB131	**Removed**	No
			KH063SB132	**Removed**	No
		1000	KH086SB131	**Removed**	No
			KH086SB132	**Removed**	No
			KH0SB331132	Removed	No
	3L + N + PE	160	KH016SB141	Removed	No
			KH016SB142	Removed	No
		250	KH025SB141	**Removed**	No
			KH025SB142	**Removed**	No
		400	KH040SB141	Removed	No
			KH040SB142	Removed	No
		630	KH063SB141	**Removed**	No
			KH063SB142	**Removed**	No
		1000	KH086SB141	**Removed**	No
			KH086SB142	**Removed**	No
	3L + PEN	160	KH016SB151	Removed	No
			KH016SB152	Removed	No
		250	KH025SB151	Removed	No
			KH025SB152	Removed	No
		400	KH040SB151	Removed	No
			KH040SB152	Removed	No
		630	KH063SB151	Removed	No
			KH063SB152	Removed	No
		1000	KH086SB151	Removed	No
			KH086SB152	Removed	No
	3L + NP + PE	160	KH016SB241	Removed	No
			KH016SB242	Removed	No
		250	KH025SB241	Removed	No
			KH025SB242	Removed	No
		400	KH040SB241	Removed	No
			KH040SB242	Removed	No
		630	KH063SB241	Removed	No
			KH063SB242	Removed	No
		1000	KH086SB241	Removed	No
			KH086SB242	Removed	No
Switch and 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

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

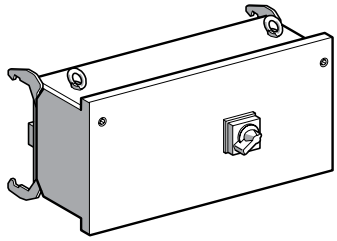
Bolted tap-off units

Protection	Polarity	Rating	Catologue 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	Removed	No
			KH086SB5312	Removed	No
	3L + N + PE	250	KH025SB5411	Removed	No
			KH025SB5412	Removed	No
		400	KH040SB5411	Removed	No
			KH040SB5412	Removed	No
		630	KH063SB5411	Removed	No
			KH063SB5412	Removed	No
		1000	KH086SB5411	Removed	No
			KH086SB5412	Removed	No
	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 KTC

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

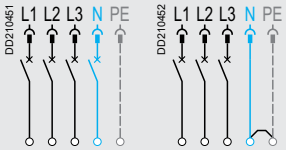
DB402027



KH0●●SD5●●

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

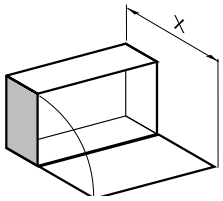
Plug-in tap-off units for extended rotary

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
Tap-off diagram (e.g. circuit breaker protection)			

Rating (A)	Type of circuit breaker	Cable capacity (mm^2)	Cable clamp on (mm)	Cat. no.		Weight (kg)
250(2)	NSX250 N/H/L	1 x 150	30...70	**KH025SD541**	**KH025SD551**	32.00
630(2)	NSX630 N/H/L	2 x 300	2 x 30...70	**KH063SD541**	**KH063SD551**	45.00

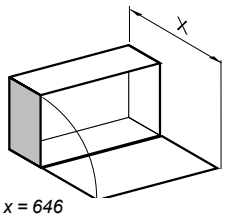
(1) These units can be fitted either on Canalis KTC or KGF.
(2) IP31 Rating.

DB401483



x = 520

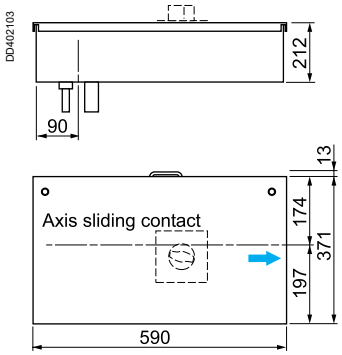
DB401483



x = 646

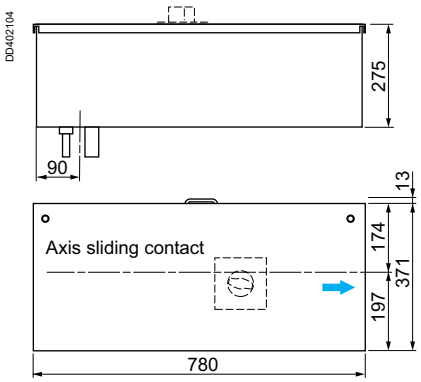
KH025SD●●●

DD402103



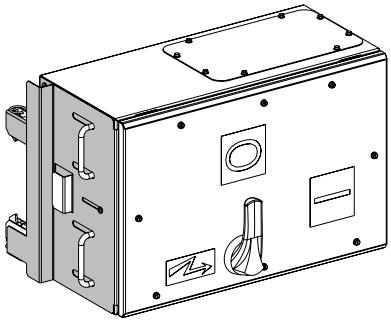
KH063SD●●●

DD402104



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

DB411235



KHB0250SE●

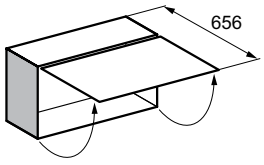
The cover of the tap-off unit may be opened or closed only when the switch-disconnector is in the Off position.
To be installed on KT EH type or on former KHF or KGF distribution length.

System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT(1) TNC	
	Tap-off unit	TT-TNS-TNS-IT(1) TNC	
Tap-off polarity		3L + N + PE(2)	3L + PEN
Tap-off diagram (e.g. fuse protection)		DD230226 L1 L2 L3 N PE	DD230228 L1 L2 L3 N PE

Rating (A)	Type of fuses	Connection	Max. size (mm2) L or N / PE	Cable gland(3) (not supplied)	Cable exit side	Cat. no.	Cat. no.	Weight (kg)
250(5)	DIN size 1	Terminals	1 x 150 / 1 x 75	ISO 32 max	Right & Left	**KHB0250SE4**		38
					Right & Left		**KHB0250SE5**	40

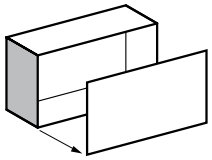
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
(4) The tap-off unit is delivered with automatic clamps.
(5) IP55 Rating.

DB411234



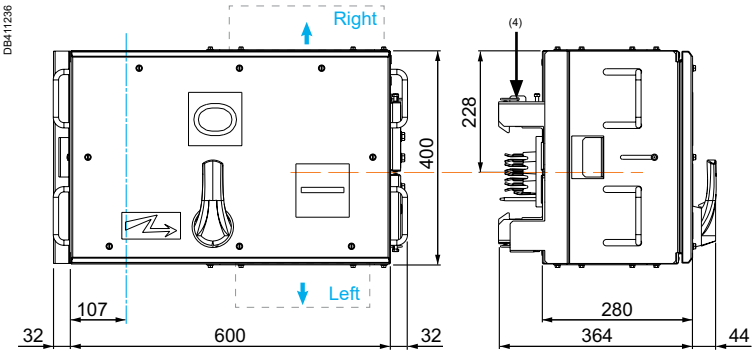
or

DB408227



KHB0250SE●

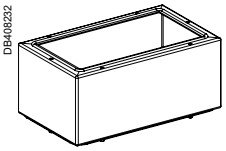
DB411236



Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

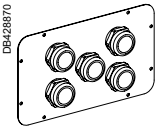
Option accessories	Cat. no.
Connecting box	**KTB0630ZA04**
Plate with 5 cable glands 24 to 40 mm	**KTB0000GP01**
Plate with 1 cable clamp 30 to 70 mm	**KTB0000GP02**
Plate with 2 cable clamps 30 to 70 mm	**KTB0000GP03**

DB408232



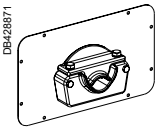
KTB0630ZA04

DB428870



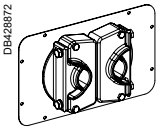
KTB0000GP01

DB428871



KTB0000GP02

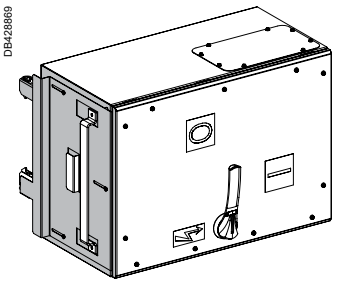
DB428872



KTB0000GP03

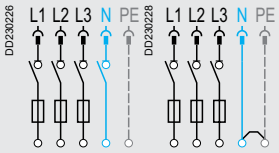
Canalis KTC

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



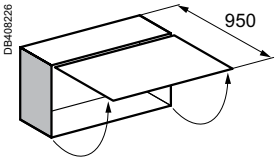
KHB0630SE●

The cover of the tap-off unit may be opened or closed only when the switch-disconnector is in the Off position.
To be installed on KT EH type or on former KHF or KGF distribution length.

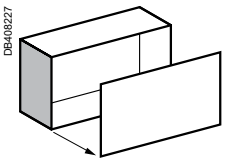
System earthing arrangement	Busbar trunking	TT-TNS-TNC-IT(1) TNC	
	Tap-off unit	TT-TNS-TNS-IT(1) TNC	
Tap-off polarity		3L + N + PE(2)	3L + PEN
Tap-off diagram (e.g. fuse protection)			

Rating (A)	Type of fuses	Connection	Max. size (mm²) L or N / PE (kg)	Cable gland(3) (not supplied)	Cable exit side	Cat. no.	Cat. no.	Weight (kg)
630(4)(6)	DIN size 3	Terminals	2 x 300 / 1 x 150	ISO 70 max.	Right	**KHB0630SE4R**		72
					Left	**KHB0630SE4L**		72
					Right		**KHB0630SE5R**	78
					Left		**KHB0630SE5L**	78

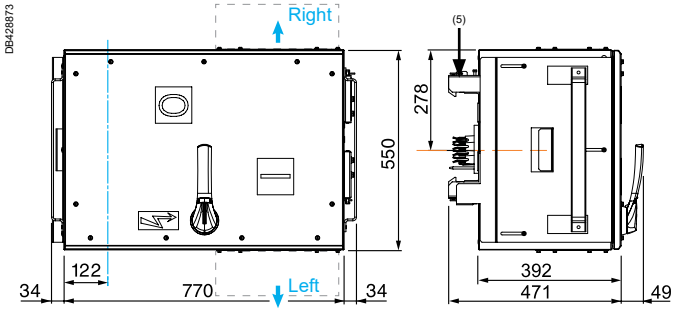
(1) The neutral must be protected or not distributed (3L + PE) for the IT system.
(2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
(3) Maximum diameter by unipolar cable.
(4) De-rating coefficient to apply: 0.87.
(5) The tap-off unit is delivered with automatic clamps, the kit of connection bars is included in the reference and delivered in the box.
(6) IP55 Rating.



or

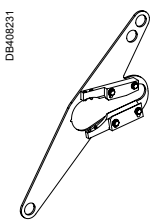


KHB0630SE●

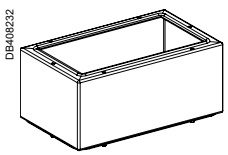


Cable exit
Center line of tap-off outlets
Axis of Canalis KT
Connection box to be fitted above or below

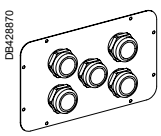
Option accessories	Cat. no.
Extension rotary handle	**KTB0630ZA03**
Connecting box	**KTB0630ZA04**
Plate with 5 cable glands 24 to 40 mm	**KTB0000GP01**
Plate with 1 cable clamp 30 to 70 mm	**KTB0000GP02**
Plate with 2 cable clamps 30 to 70 mm	**KTB0000GP03**



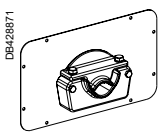
KTB0630ZA03



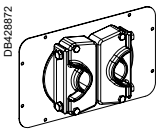
KTB0630ZA04



KTB0000GP01



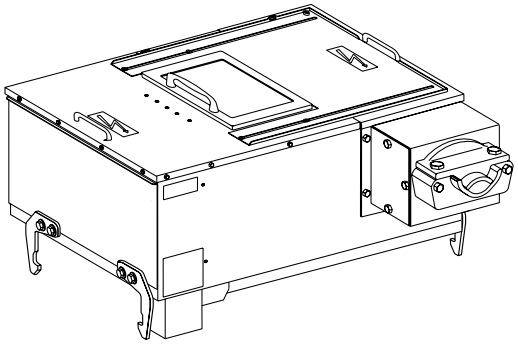
KTB0000GP02



KTB0000GP03

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

DD401398

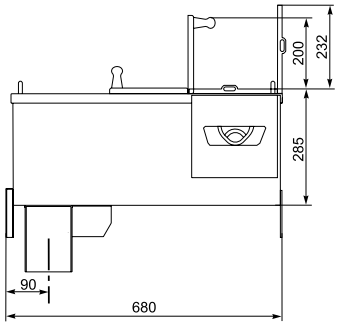


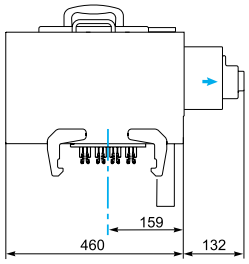
KH040SD9502

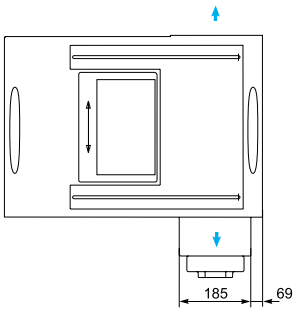
System earthing arrangement (1)			Busbar trunking	TNC	
			Tap-off unit	TNC	
Tap-off polarity				3L + PEN	
Tap-off diagram (e.g. fuse protection)				DD210471 L1 L2 L3 N PE	
Ith (A)		Fuse size	Cable capacity (mm²)	**Cat. no.**	**Weight (kg)**
400(2)	With MULLER disconnector	2	1 x 185	**KH040SD9502**	39.00
630(2)	With MULLER disconnector	3	2 x 185	**KH063SD9502**	46.00

(1) These units can be fitted either on Canalis KTC or KGF.
(2) IP43 Rating.

DB401399

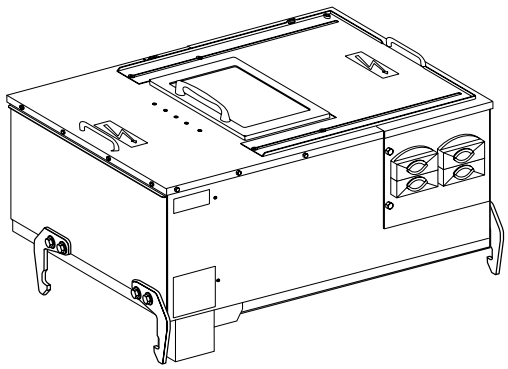






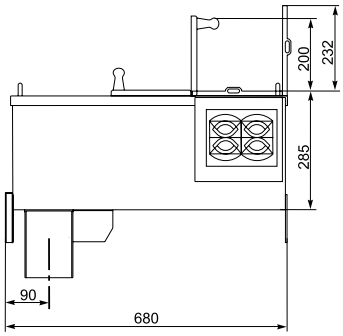
Connecting box is equipped with a 30 to 70 mm aluminium cable clamp.

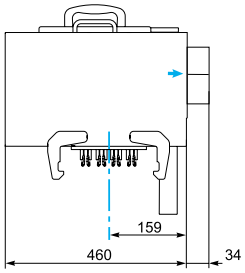
DD401400

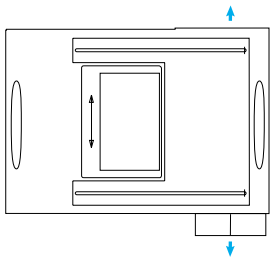


KH063SD9502

DB401401

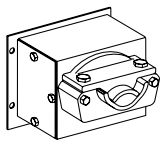






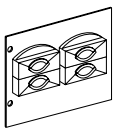
Connecting plate is equipped with 4 plastic cable clamps.

DB406514



KH040ZA07

DB406515



KH063ZA07

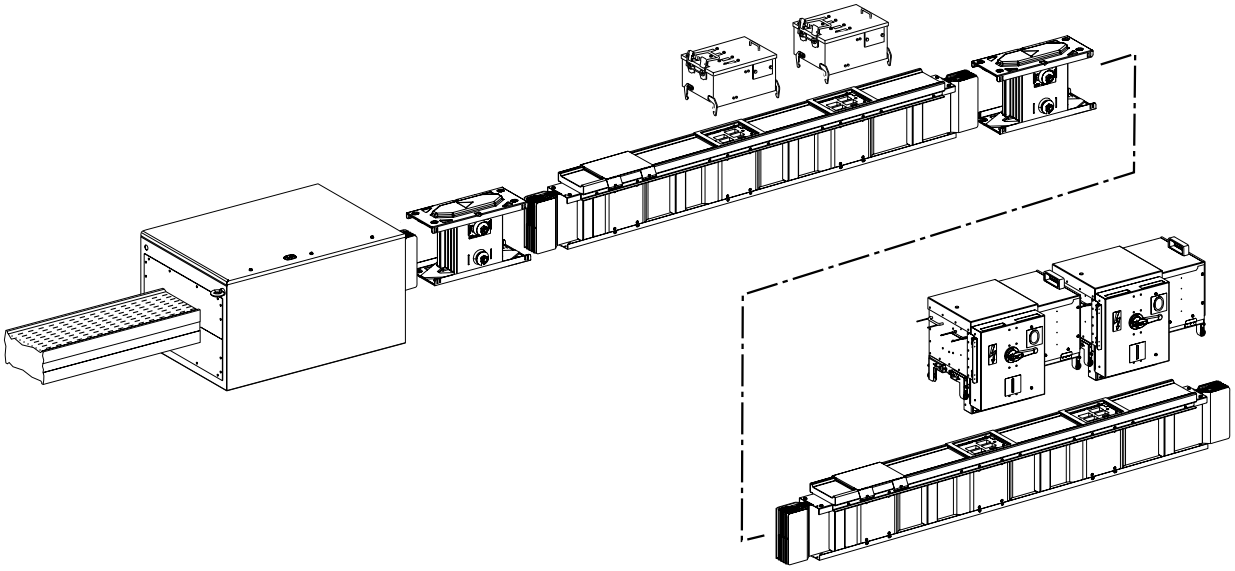
If 2 cables exit are needed, stand alone connecting box can be ordered.

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**

Expansion of a Canalis KH line by means of Canalis KT

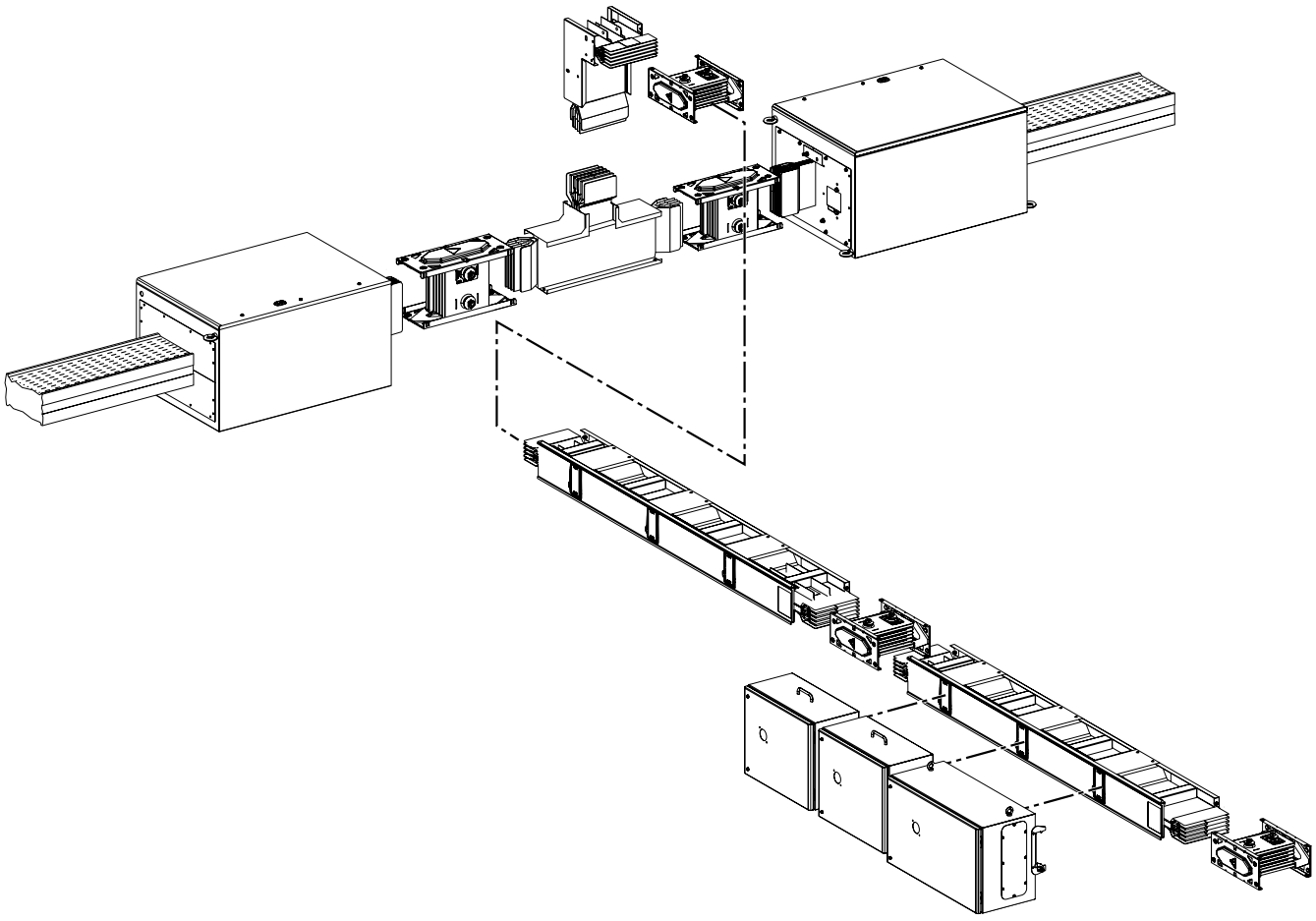
Canalis KTC

DB401535



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

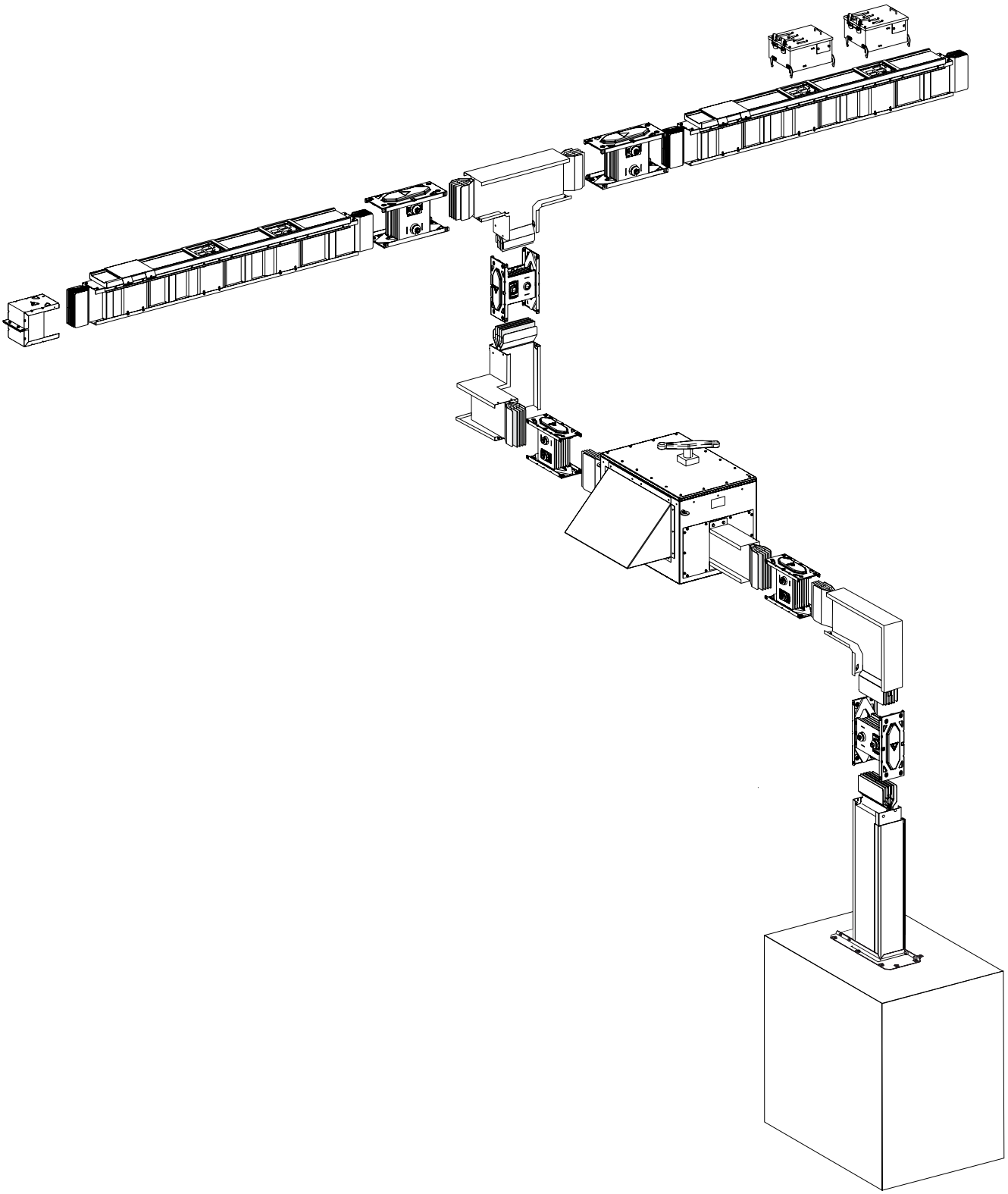
DB401534



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

Canalis KTC

DB401497



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Characteristics
Canalis KTC 3L + PE

Canalis KTC
Characteristics of run sections

			Busbar trunking rating (A)								
General characteristics			**1000**	**1350**	**1600**	**2000**	**2500**	**3200**	**4000**	**5000**	**6300**
Compliance with standards			IEC/EN 61439-6								
Protection degree	IP		55 Any installation (indoors only) is possible for the busbar truncking: edgewise, flat or vertical. See test condition, page 147.								
Shock resistance	IK		08								
Nominal rated current at an ambient temperature of 35°C	Inc	A	1000	1350	1600	2000	2500	3200	4000	5000	6300
Rated insulation voltage	Ui	V	1000								
Rated operating voltage	Ue	V	1000								
Operating frequency	f	Hz	50/60 (for 60 to 400 Hz AC or for DC, consult us)								
Short-circuit current withstand											
Standard version 3L + PE											
Allowable rated short-time withstand current (t = 1 s)	Icw	kA	50	50	65	70	80	86	90	95	120
Allowable rated peak current	Ipk	kA	110	110	143	154	176	189	198	209	264
Maximum thermal stress I^2t (t = 1 s)	I^2t	$A^2s\ 10^6$	2500	2500	4225	12100	12769	7396	8100	9025	14400
Conductor characteristics											
Phase conductors											
Average resistance at an ambient temperature of 20°C	R_{20}	mΩ/m	0.041	0.029	0.024	0.018	0.014	0.012	0.009	0.007	0.006
Average resistance at Inc and at 35°C	R_1	mΩ/m	0.049	0.035	0.029	0.022	0.018	0.015	0.012	0.009	0.0075
Average reactance at Inc and at 35°C and at 50 Hz	X_1	mΩ/m	0.022	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	0.054	0.039	0.033	0.026	0.021	0.017	0.014	0.012	0.0085
PE = casing											
Average resistance at an ambient temperature of 20°C		mΩ/m	0.223	0.198	0.184	0.162	0.144	0.130	0.108	0.094	0.065
Casing (equivalent copper cross-section)		mm^2	109	117	125	137	145	157	163	171	313
Fault loop characteristics											
Symmetrical components method — Ph/PE at 20°C — Average resistance	$R_{0\ ph/PE}$	mΩ/m	0.757	0.630	0.570	0.492	0.431	0.385	0.324	0.279	0.193
Symmetrical components method — Ph/PE at 20°C — Average reactance	$X_{0\ ph/PE}$	mΩ/m	0.666	0.489	0.410	0.315	0.247	0.196	0.147	0.113	0.098
Symmetrical components method — Ph/PE at 20°C — Average impedance	$Z_{0\ ph/PE}$	mΩ/m	1.009	0.797	0.702	0.584	0.497	0.432	0.356	0.301	0.217
Impedance method — At 20°C — Average resistance — Ph/Ph	$R_{b0\ ph/ph}$	mΩ/m	0.078	0.056	0.047	0.036	0.029	0.025	0.019	0.015	0.013
Impedance method — At 20°C — Average resistance — Ph/PE	$R_{b0\ ph/PE}$	mΩ/m	0.483	0.390	0.333	0.270	0.227	0.195	0.157	0.129	0.098
Impedance method — At Inc and at 35°C — Average resistance — Ph/Ph	$R_{b1\ ph/ph}$	mΩ/m	0.094	0.068	0.057	0.044	0.036	0.032	0.024	0.019	0.016
Impedance method — At Inc and at 35°C — Average resistance — Ph/PE	$R_{b1\ ph/PE}$	mΩ/m	0.580	0.476	0.407	0.330	0.282	0.246	0.201	0.165	0.123
Impedance method — At Inc and at 35°C and at 50 Hz — 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
Impedance method — At Inc and at 35°C and at 50 Hz — Average reactance — 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 table. This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.								
For a cosine φ of	1	V/100 m/A	0.0043	0.0031	0.0026	0.0019	0.0015	0.0013	0.0010	0.0008	0.00065
	0.9	V/100 m/A	0.0047	0.0034	0.0029	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
	0.8	V/100 m/A	0.0046	0.0033	0.0028	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
	0.7	V/100 m/A	0.0044	0.0031	0.0027	0.0021	0.0018	0.0014	0.0012	0.0010	0.0007
Average weight											
3L + PE		kg/m	19	25	29	36	44	51	66	82	102
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	B	µT	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.7	4.5

Characteristics of run sections

				Symbol	Unit	Busbar trunking rating (A)								
General characteristics						**1000**	**1350**	**1600**	**2000**	**2500**	**3200**	**4000**	**5000**	**6300**
Compliance with standards						IEC/EN 61439-6								
Protection degree				IP		55 Any installation (indoors only) is possible for the busbar truncking: edgewise, flat or vertical. See test condition, page 147.								
Shock resistance				IK		08								
Nominal rated current at an ambient temperature of 35°C				Inc	A	1000	1350	1600	2000	2500	3200	4000	5000	6300
Rated insulation voltage				Ui	V	1000								
Rated operating voltage				Ue	V	1000								
Operating frequency				f	Hz	50/60 (for 60 to 400 Hz AC or for DC, consult us)								
Short-circuit current withstand														
Standard version 3L + N + PE														
Allowable rated short-time withstand current (t = 1 s)				Icw	kA	50	50	65	70	80	86	90	95	120
Allowable rated peak current				Ipk	kA	110	110	143	154	176	189	198	209	264
Maximum thermal stress I^2t (t = 1 s)				I^2t	$A^2s\ 10^6$	2500	2500	4225	4900	6400	7396	8100	9025	14400
Conductor characteristics														
Phase conductors														
Average resistance at an ambient temperature of 20°C				R_{20}	mΩ/m	0.041	0.029	0.024	0.018	0.014	0.012	0.009	0.007	0.006
Average resistance at Inc and at 35°C				R_1	mΩ/m	0.049	0.035	0.029	0.022	0.018	0.015	0.012	0.009	0.0075
Average reactance at Inc and at 35°C and at 50 Hz				X_1	mΩ/m	0.022	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	0.054	0.039	0.033	0.026	0.021	0.017	0.014	0.012	0.0085
PE = casing														
Average resistance at an ambient temperature of 20°C					mΩ/m	0.223	0.198	0.184	0.162	0.144	0.130	0.108	0.094	0.065
Casing (equivalent copper cross-section)					mm²	109	117	125	137	145	157	163	171	313
Fault loop characteristics														
Symmetrical components method	Ph/N at 20°C	Average resistance		$R_{0\ ph/N}$	mΩ/m	0.192	0.138	0.116	0.089	0.071	0.062	0.046	0.037	0.031
		Average reactance		$X_{0\ ph/N}$	mΩ/m	0.124	0.089	0.075	0.058	0.044	0.040	0.030	0.024	0.020
		Average impedance		$Z_{0\ ph/N}$	mΩ/m	0.229	0.164	0.138	0.106	0.084	0.074	0.055	0.044	0.037
	Ph/PE at 20°C	Average resistance		$R_{0\ ph/PE}$	mΩ/m	0.757	0.630	0.570	0.492	0.431	0.385	0.324	0.279	0.193
		Average reactance		$X_{0\ ph/PE}$	mΩ/m	0.666	0.489	0.410	0.315	0.247	0.196	0.147	0.113	0.098
		Average impedance		$Z_{0\ ph/PE}$	mΩ/m	1.009	0.797	0.702	0.584	0.497	0.432	0.356	0.301	0.217
Impedance method	At 20°C	Average resistance	Ph/Ph	$R_{b0\ ph/ph}$	mΩ/m	0.078	0.056	0.047	0.036	0.029	0.025	0.019	0.015	0.013
			Ph/N	$R_{b0\ ph/N}$	mΩ/m	0.080	0.057	0.048	0.037	0.029	0.026	0.019	0.015	0.013
			Ph/PE	$R_{b0\ ph/PE}$	mΩ/m	0.483	0.390	0.333	0.270	0.227	0.195	0.157	0.129	0.098
	At Inc and at 35°C	Average resistance	Ph/Ph	$R_{b1\ ph/ph}$	mΩ/m	0.094	0.068	0.057	0.044	0.036	0.032	0.024	0.019	0.016
			Ph/N	$R_{b1\ ph/N}$	mΩ/m	0.096	0.070	0.059	0.045	0.036	0.032	0.024	0.020	0.016
			Ph/PE	$R_{b1\ ph/PE}$	mΩ/m	0.580	0.476	0.407	0.330	0.282	0.246	0.201	0.165	0.123
	At Inc and at 35°C and at 50 Hz	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
			Ph/N	$X_{b\ ph/N}$	mΩ/m	0.065	0.047	0.040	0.030	0.024	0.021	0.016	0.013	0.011
			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 table. This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.								
For a cosine φ of				1	V/100 m/A	0.0043	0.0031	0.0026	0.0019	0.0015	0.0013	0.0010	0.0008	0.00065
				0.9	V/100 m/A	0.0047	0.0034	0.0029	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
				0.8	V/100 m/A	0.0046	0.0033	0.0028	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
				0.7	V/100 m/A	0.0044	0.0031	0.0027	0.0021	0.0018	0.0014	0.0012	0.0010	0.0007
Average weight														
3L + N + PE					kg/m	23	31	35	45	55	64	84	104	128
Fire load value														
					kWh/m	2.5	3.6	4.1	5.9	7.3	8.0	11.5	14.4	16
Radiated magnetic field														
Radiated magnetic field strength 1 metre from the trunking				B	µT	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.7	4.5

Characteristics
Canalis KTC 3L + N + PE

Canalis KTC
Characteristics of run sections

			Busbar trunking rating (A)								
General characteristics			**1000**	**1350**	**1600**	**2000**	**2500**	**3200**	**4000**	**5000**	**6300**
Compliance with standards			IEC/EN 61439-6								
Protection degree	IP		55 Any installation (indoors only) is possible for the busbar truncking: edgewise, flat or vertical. See test condition, page 147.								
Shock resistance	IK		08								
Nominal rated current at an ambient temperature of 35°C	Inc	A	1000	1350	1600	2000	2500	3200	4000	5000	6300
Rated insulation voltage	Ui	V	1000								
Rated operating voltage	Ue	V	1000								
Operating frequency	f	Hz	50/60 (for 60 to 400 Hz AC or for DC, consult us)								
Short-circuit current withstand											
Standard version 3L + N + PER											
Allowable rated short-time withstand current (t = 1 s)	Icw	kA	50	50	65	70	80	86	90	95	120
Allowable rated peak current	Ipk	kA	110	110	143	154	176	189	198	209	264
Maximum thermal stress I^2t (t = 1 s)	I^2t	$A^2s\ 10^6$	2500	2500	4225	4900	6400	7396	8100	9025	14400
Reinforced version 3L + N + PER (optional)											
Allowable rated short-time withstand current (t = 1 s)	Icw	kA	65	65	85	110	113	113	120	120	120
Allowable rated peak current	Ipk	kA	143	143	187	242	248	248	264	264	264
Maximum thermal stress	I^2t	$A^2s\ 10^6$	4225	4225	7225	12100	12769	12769	14400	14400	14400
Conductor characteristics											
Phase conductors											
Average resistance at an ambient temperature of 20°C	R_{20}	mΩ/m	0.041	0.029	0.024	0.018	0.014	0.012	0.009	0.007	0.006
Average resistance at Inc and at 35°C	R_1	mΩ/m	0.049	0.035	0.029	0.022	0.018	0.015	0.012	0.009	0.0075
Average reactance at Inc and at 35°C and at 50 Hz	X_1	mΩ/m	0.022	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	0.054	0.039	0.033	0.026	0.021	0.017	0.014	0.012	0.0085
PE = internal copper protective conductor											
Average resistance at an ambient temperature of 20°C		mΩ/m	0.051	0.040	0.035	0.027	0.022	0.019	0.014	0.012	0.010
Copper cross-section		mm²	210	300	360	480	600	720	960	1200	1440
Fault loop characteristics											
Symmetrical components method — Ph/N at 35°C — Average resistance	$R_{0\ ph/N}$	mΩ/m	0.189	0.134	0.113	0.085	0.069	0.057	0.043	0.035	0.029
Ph/N at 35°C — Average reactance	$X_{0\ ph/N}$	mΩ/m	0.087	0.061	0.054	0.042	0.041	0.029	0.022	0.018	0.015
Ph/N at 35°C — Average impedance	$Z_{0\ ph/N}$	mΩ/m	0.208	0.148	0.125	0.095	0.080	0.064	0.049	0.039	0.032
Ph/PE at 35°C — Average resistance	$R_{0\ ph/PE}$	mΩ/m	0.212	0.162	0.139	0.109	0.090	0.076	0.059	0.048	0.038
Ph/PE at 35°C — Average reactance	$X_{0\ ph/PE}$	mΩ/m	0.067	0.051	0.043	0.034	0.028	0.024	0.019	0.015	0.012
Ph/PE at 35°C — Average impedance	$Z_{0\ ph/PE}$	mΩ/m	0.222	0.169	0.145	0.114	0.094	0.080	0.062	0.051	0.040
Impedance method — At 20°C — Average resistance — Ph/Ph	$R_{b0\ ph/ph}$	mΩ/m	0.083	0.058	0.048	0.036	0.029	0.024	0.018	0.014	0.012
Ph/N	$R_{b0\ ph/N}$	mΩ/m	0.087	0.059	0.019	0.239	0.199	0.170	0.135	0.110	0.085
Ph/PER	$R_{b0\ ph/PE}$	mΩ/m	0.107	0.079	0.067	0.051	0.042	0.035	0.027	0.022	0.017
At Inc and at 35°C — Average resistance — Ph/Ph	$R_{b1\ ph/ph}$	mΩ/m	0.099	0.071	0.059	0.044	0.036	0.030	0.023	0.019	0.015
Ph/N	$R_{b1\ ph/N}$	mΩ/m	0.104	0.072	0.060	0.045	0.036	0.031	0.023	0.019	0.016
Ph/PE	$R_{b1\ ph/PE}$	mΩ/m	0.129	0.096	0.082	0.063	0.052	0.044	0.034	0.028	0.023
At Inc and at 35°C and at 50 Hz — Average reactance — Ph/Ph	$X_{b\ ph/ph}$	mΩ/m	0.028	0.020	0.017	0.013	0.011	0.009	0.004	0.006	0.005
Ph/N	$X_{b\ ph/N}$	mΩ/m	0.043	0.032	0.028	0.021	0.017	0.015	0.011	0.009	0.008
Ph/PE	$X_{b\ ph/PE}$	mΩ/m	0.050	0.040	0.035	0.029	0.023	0.020	0.016	0.013	0.010
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 table. This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.								
For a cosine φ of	1	V/100 m/A	0.0043	0.0031	0.0026	0.0019	0.0015	0.0013	0.0010	0.0008	0.00065
	0.9	V/100 m/A	0.0047	0.0034	0.0029	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
	0.8	V/100 m/A	0.0046	0.0033	0.0028	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
	0.7	V/100 m/A	0.0044	0.0031	0.0027	0.0021	0.0018	0.0014	0.0012	0.0010	0.0007
Average weight											
3L + N + PER		kg/m	25	33	39	49	60	71	92	114	142
Fire load value											
		kWh/m	2.5	3.6	4.1	5.9	7.3	8.0	11.5	14.4	16
Radiated magnetic field											
Radiated magnetic field strength 1 metre from the trunking	B	µT	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.7	4.5

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)
1000	800	630	KTC	1000
1350	1000	800	KTC	1350
1600	1350	1000	KTC	1600
2000	1600	1350	KTC	2000
2500	2000	1600	KTC	2500
3200	2500	2000	KTC	3200
4000	3200	2500	KTC	4000
5000	4000	3200	KTC	5000
6300	5000	4000	KTC	6300

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 KTC 3200 A.

Allowable current as a function of ambient temperature
Canalis busbar trunking is sized to operate at an ambient air 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 temperature 24 hours 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 trunking installed outside under an aluminium roof" on page 147				
Busbar trunking installed in a fire duct	k1	%	Please, see your 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 KTC6300

Installation type	Utilisation	
	Transport	Distribution
Edgewise installation	1	0.94
Flatwise installation	0.9	0.9

Determining the rating
Providing power distribution using Canalis

Canalis KTC

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 (Ib).
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

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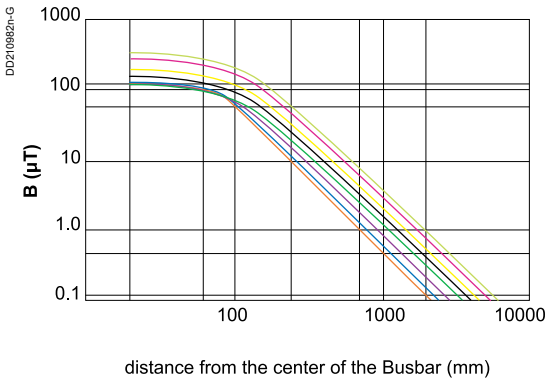


Protection degree
Canalis KT busbar trunking is IP55 and IPxxD by construction.
This protection degree protects the busbar trunking against:
■ dust
■ penetration by a 1mm diameter wire
■ water projections from all directions.

It can be installed in almost all premises; for more details see the "Determining the protection degree" page 164.

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.

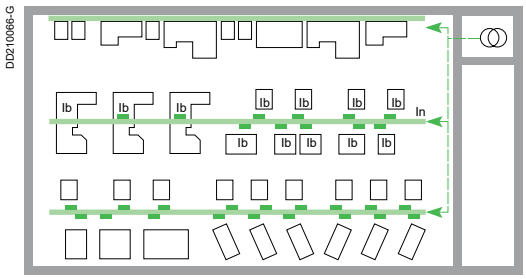
Corrosive atmosphere
The busbar trunking has been qualified for industrial atmospheres.
For sulphurous atmospheres such as sulphur dioxide (SO_2) and hydrogen sulphide (H_2S), there is a suitable Canalis KT solution; consult your Schneider Electric distributor for more information on this option.
Example: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



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 = 0.2 µT, 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.

3 - Determining the current rating (Ib)



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 (mechanic workshop)	2...3	0.9
	4...5	0.8
	6...9	0.7
	10...40	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 KTC1350 A installed inside with an ambient temperature of 50°C:
In = 1350 x 0.90 = 1215 A.

In ⩾ Ib x k1 = Iz

Where k1 = ambient temperature derating coefficient.

Type of installation	Canalis KT	Ambiant temperature 24 hours average (°C)				
		35	40	45	50	55
Busbar trunking installed inside	All	1	0.97	0.93	0.90	0.86
Busbar trunking installed outside under an aluminium roof	All	0.86	0.83	0.80	0.77	0.74
Busbar trunking installed in a fire duct		Please, see your sales office.				

Canalis KTC

5 - Choosing the busbar trunking rating according to the nominal current In

Nominal current In (A)	Busbar trunking
0 to 1000	KTC1000
1001 to 1350	KTC1350
1351 to 1600	KTC1600
1601 to 2000	KTC2000
2001 to 2500	KTC2500
2501 to 3200	KTC3200
3201 to 4000	KTC4000
4001 to 5000	KTC5000
5001 to 6300	KTC6300

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)									
	KTC10	KTC13	KTC16	KTC20	KTC25	KTC32	KTC40	KTC50	KTC63
Cosine φ = 1	0.0043	0.0031	0.0026	0.0019	0.0015	0.0013	0.0010	0.0008	0.00065
Cosine φ = 0.9	0.0047	0.0034	0.0029	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
Cosine φ = 0.8	0.0046	0.0033	0.0028	0.0022	0.0018	0.0015	0.0012	0.0010	0.00075
Cosine φ = 0.7	0.0044	0.0031	0.0027	0.0021	0.0018	0.0014	0.0012	0.0010	0.0007

Example: for the KTC1600 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 0.0028V/100m/A.

0.0028 x 0.87 x 1530 = 3.72 V
For a voltage = 400 V, in percentages:
3.72 / 400 = 0.0093 that is to say 0.9 %.

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:

$Iz = Ib \times k1 \leqslant Ir \leqslant Inc$

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 $In \leqslant Inc / K2$ where K2 = 1.

- Protection using gG (gI) fuse:
  - determine the standardised nominal current In of the fuse such that: $In \leqslant Inc / K2$
  - where K2 = 1.1
  - choose the standardised rating In that is equal to or just lower.

Check the following condition: $In \geqslant Ib \times k1 = Iz$.
If this condition is not met, choose the busbar trunking with the next rating up.

Note: using gI 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.

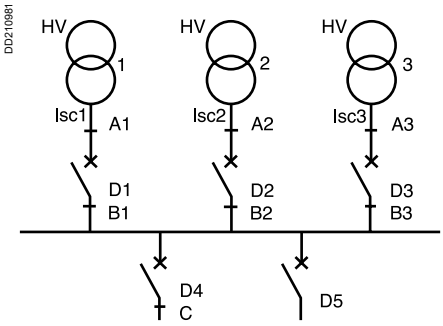
Canalis KT is more than sized to cope with short-circuit currents.
Some specific cases require checks to be carried out: transformers in parallel, low rating Canalis installed close to a transformer, etc.

Protection of circuits supplied by several paralleled transformers

Canalis KTC

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.

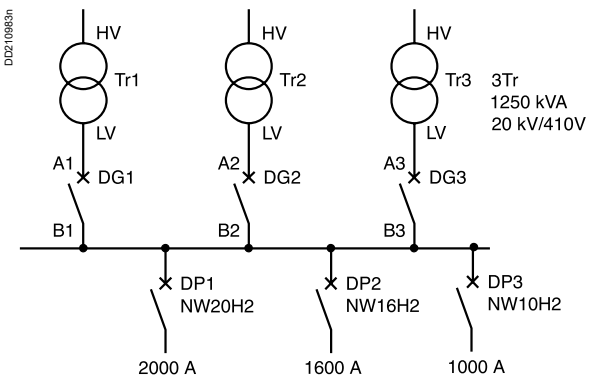


For the case of several parallel transformers (1):
■ the source circuit breaker D1 must have a breaking capacity greater than the largest of the 2 following values:
□ either Isc1 (short-circuit at B1)
□ or Isc2 + Isc3 (short-circuit at A1)
■ the feeder circuit breaker D4 must have a breaking capacity greater than Isc1 + Isc2 + Isc3.

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.



Protection of circuits supplied by several paralleled transformers

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 bars
- the equipment is installed into a switchboard with an ambient temperature of 40°C.

Transformer				Source min. break. cap. (kA)	Source circuit breaker	Feeder min. break. cap. (kA)	Feeder circuit breaker				
P (kVA)	In (A)	Usc (%)	Isc (kA)				≤ 100 A	160 A	250 A	400 A	630 A
1 transformer											
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 transformers											
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 transformers											
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	NSX160H	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
2000	2816	6	47	94	NS3200N NW32H2 Micrologic	141	NSX100L	NSX160L	NSX250L	NSX400L	NSX630L

Usc values as defined in HD 428.

Coordination
Protection of busbar trunking against overloads

Canalis KTC

Introduction

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.

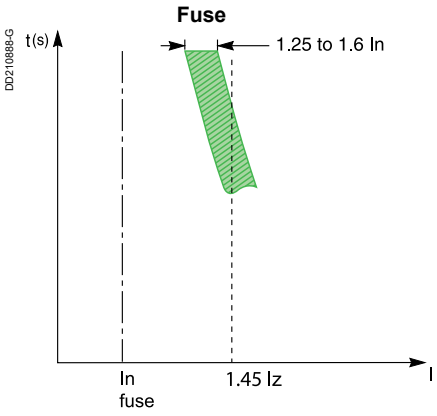
The use of Schneider Electric circuit breakers provides:
■ protection against overloads and short-circuits
■ coordination between the protective devices and the Canalis busbar trunking:
□ full discrimination from 1 to 6300 A between all the circuit breakers of the Schneider Electric ranges
□ cascading:
- 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.

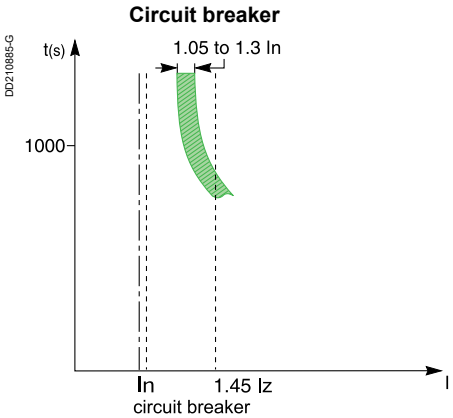
Adequacy between circuit breaker ratings and busbar trunking

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.

■ Iz = Ib x k1 x k2
□ Ib : 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:
Iz = Ib x k1 x k2 = 1900 x 1 x 1.1 = 2090 A
The correct choice of busbar trunking is the KTC2500 (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 KTC2000 (Iz = 2000 A),
A difference of 20 % in the measurement of operating currents results in an over-rating 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)
□ 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.

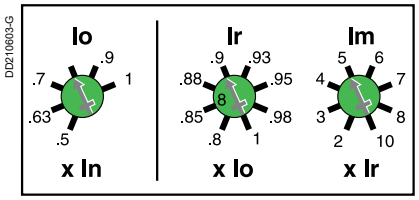
Thermal setting accuracy

■ 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
□ 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 1344 A would be used to protect a KTC1600 (Inc = 1344 A) busbar trunking used in an ambient temperature of 50°C (k1 = 0.84).

Setting range of circuit breakers fitted with electronic trip units



Example of setting possibilities.

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.

Advantages
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.

Canalis KTC

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:
■ the allowable rated peak current Ipk (kÂ).
This characteristic represents the busbar trunking's instantaneous electrodynamic withstand limits. The peak current value is often the most restrictive instantaneous characteristic for the protective device
■ The maximum short-time withstand rms current Icw (kArms/s).
This characteristic represents the allowable temperature rise limit of the conductors during a given time period (0.1 to 1s)
■ The thermal stress in A^2s.
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".

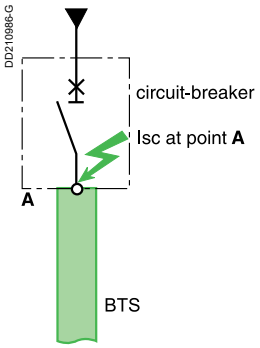
Circuit breaker characteristics

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 Icu (1) greater than the prospective short-circuit current Isc at the point where it is installed.

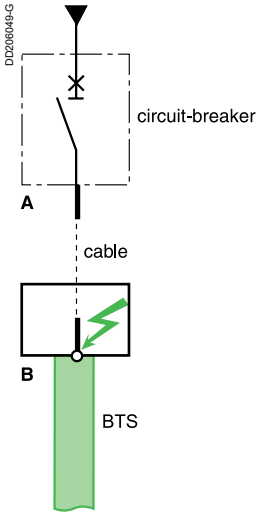
(1) Installation standard IEC 60364 and construction standards specify the breaking capacity of a circuit breaker as being:
- the ultimate breaking capacity, Icu, if it is not coordinated with an upstream protective device,
- the reinforced breaking capacity (cascading) if there is coordination with the upstream protective device.

Circuit breaker / busbar trunking system characteristics

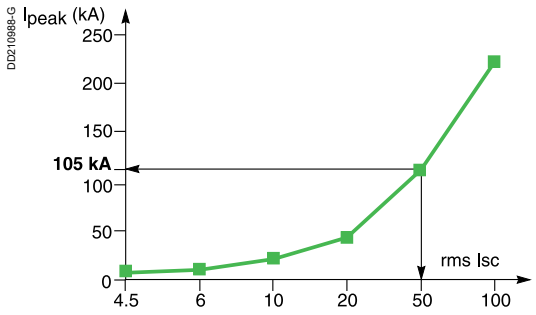
When the busbar trunking is directly protected, the circuit breaker must be chosen as follows:
■ Icu of the circuit breaker ≥ prospective Isc at point A
■ I peak of the busbar trunking ≥ prospective asymmetrical or limited Isc at point A
■ busbar trunking thermal withstand Icw ≥ thermal stress through the busbar trunking.



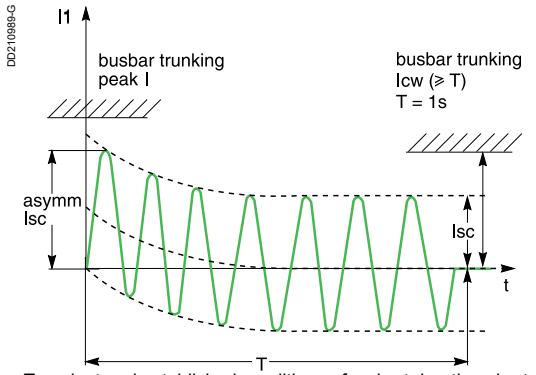
When the busbar trunking is protected downstream of a cable, the circuit breaker must be chosen as follows:
■ Icu of the circuit breaker ≥ prospective Isc at point A
■ I peak of the busbar trunking ≥ prospective asymmetrical or limited Isc at point B
■ busbar trunking thermal withstand Icw ≥ thermal stress through the busbar trunking.



Circuit breaker/busbar trunking coordination
Non-limiting or time-delayed circuit breaker



Current value of the 1st peak as a function of Isc rms.



Transient and established conditions of a short duration short-circuit.

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.

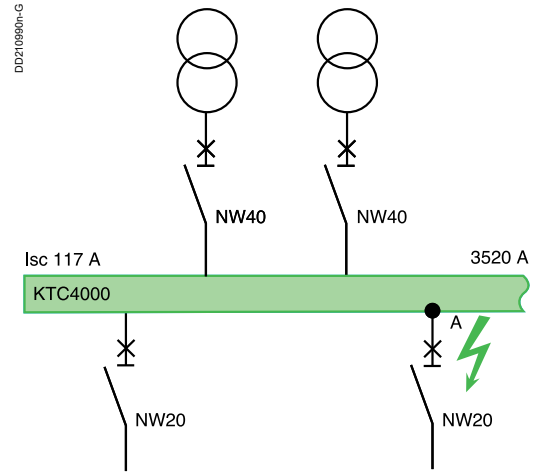
It must be checked that the busbar trunking can handle the peak fault current to which it may be subjected and the thermal withstand during any time delay.
The allowable peak current (I peak) of the busbar trunking must be greater than the peak current value of the prospective asymmetrical short-circuit 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 ⩽ I ⩽ 6	1.5
6 < I ⩽ 10	1.7
10 < I ⩽ 20	2.0
20 < I ⩽ 50	2.1
50 < I	2.2

Example:
For a circuit with a prospective short-circuit current of 50 kA rms, the 1st peak reaches 105 kÂ (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 KTC4000 is needed because:
Icw KTC4000 > Isc prospective at point A.

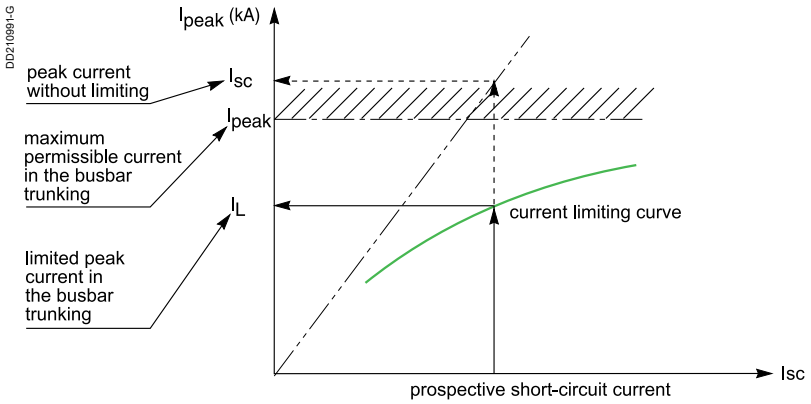
The Icw or Ipk values of standard or reinforced KTC trunking allow the easy construction of circuits with time discrimination, even with high short-circuit values.

Circuit breaker/busbar trunking coordination
Limiter circuit breaker

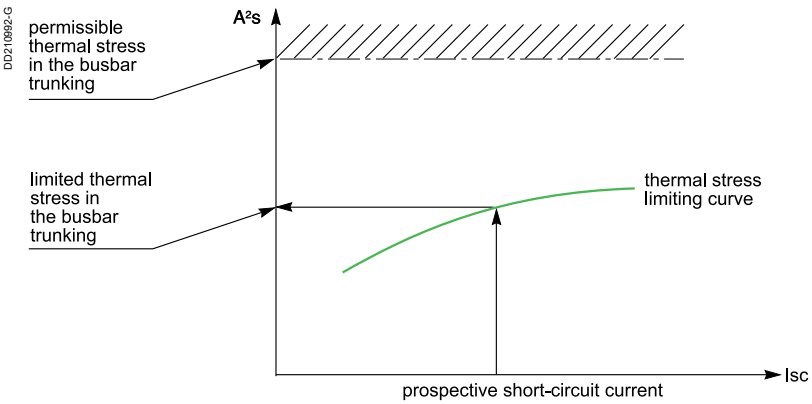
Canalis KTC

This is mainly applicable to the protection of busbar trunking using moulded case circuit breakers (≤ 1600 A).
This type of circuit breaker is used for energy discrimination and is therefore often associated with Canalis KTC.

Here, it has to be checked that the busbar trunking can cope with the peak current (Ipk) limited by the protective device and the corresponding thermal stress (A²s):
■ the peak current (I 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

Limiting capacity

Compact NS circuit breakers are high current limiting circuit breakers.
The limiting capacity of a circuit breaker is its capacity to only allow a limited current (IL) to flow in the event of a short-circuit. This limited current being less than the prospective asymmetrical peak short-circuit current (Isc).
This greatly reduces the electrodynamic and thermal constraints on the installation to be protected.

Applying limiting capacity to busbar trunking protection

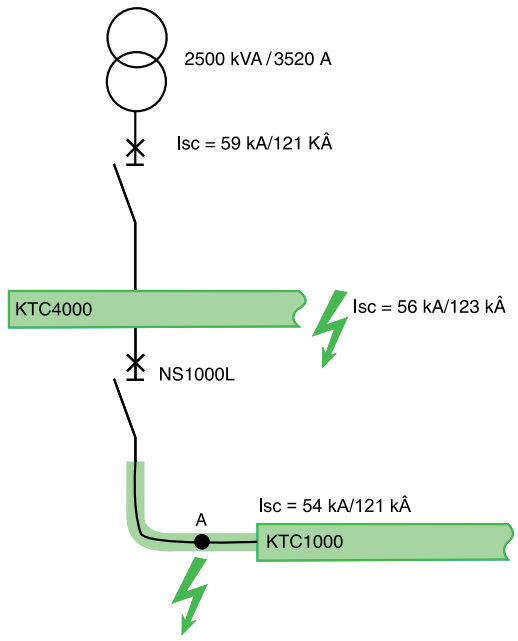
Even if this combination is less frequent than for KS busbar trunking, some KT ratings can benefit from the association with a limiter circuit breaker.

High power installation
If the circuit breaker's limiting capacity is not taken into account:
- the prospective short-circuit current value (Isc) at point A would be 121 kÂ
- KTC1600 would be the appropriate choice of busbar trunking.

If the limiting capacity of the Compact NS1000L is taken into account, the limited Ipk is 50 kÂ < 110 kÂ of the KTC1000 busbar trunking.

Because of the high limiting capacity of the Compact NS1000L, a KTC1000 busbar trunking can be installed into a prospective short-circuit current at point A of 150 kA rms or 300 kÂ.

DD210993nC-G



Canalis KTC

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 Isc of 150 kA, the circuit breaker needed to protect a KTC1350 A busbar trunking is a **NS1000L** or **NT10L1** (the rating depends on the circuit's nominal current).

For a voltage of 380 / 415 V

Type of Canalis busbar trunking		KTC1000					
Isc max kArms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	Compact NS		NS800N **NS1000N** NS1250N				NS800L **NS1000L**
	Masterpact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 H2/H3/L1 **MTZ1 10 H2/H3/L1** MTZ1 12 H2/H3	MTZ1 08 L1 **MTZ1 10 L1**			
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1	MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1				
	Masterpact NT	NT08H1 **NT10H1** NT12H1	NT08H2 **NT10H2** NT12H2				NT08L1 **NT10L1**
	Masterpact NW	NW08N1 **NW10N1** NW12N1	NW08H1 **NW10H1** NW12H1				
Type of Canalis busbar trunking		**KTC1000 Reinforced short-circuit level**					
Isc max kArms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS800N **NS1000N**	NS800H **NS1000H** NS1250H			NS800L **NS1000L**
	Masterpact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 H2/H3/L1 **MTZ1 10 H2/H3/L1** MTZ1 12 H2/H3	MTZ1 08 H3/L1 **MTZ1 10 H3/L1** MTZ1 12 H3	MTZ1 08 L1 **MTZ1 10 L1**		
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1	MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1		MTZ2 08 L1 **MTZ2 10 L1** MTZ2 12 L1		
	Masterpact NT	NT08H1 **NT10H1** NT12H1	NT08H2 **NT10H2** NT12H2				NT08L1 **NT10L1**
	Masterpact NW	NW08N1 **NW10N1** NW12N1		NW08H1 **NW10H1** NW12H1	NW08L1 **NW10L1** NW12L1		
Type of Canalis busbar trunking		**KTC1350**					
Isc max kArms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1000N **NS1250N** **NS1600N**				**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 L1			
	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 Canalis busbar trunking		**KTC1350 Reinforced short-circuit level**					
Isc max kArms		**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1000N **NS1250N** **NS1600N**	NS1000H **NS1250H** **NS1600H**			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		
	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		KTC1600					
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	Compact NS		NS1250N **NS1600N**	NS1250H **NS1600H** **NS1600bN** NS2000N			
	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	MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/L1		MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1		
	Masterpact NT	**NT12H1** NT16H1	**NT12H2** NT16H2				
	Masterpact NW	NW12N1 **NW16N1** NW20H1		NW12H1 **NW16H1** NW20H1		NW12L1 **NW16L1** NW20L1	
Type of Canalis busbar trunking		**KTC1600 Reinforced short-circuit level**					
	Isc max kArms	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS		NS1250N	NS1250H NS1600H **NS1600bN** NS2000N	**NS1600bH** NS2000H		
	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	MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/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	NT12H1 **NT16H1**	NT12H2 **NT16H2**				
	Masterpact NW	NW12N1 **NW16N1**		NW12H1 **NW16H1** NW20H1	NW12H2 **NW16H2** NW20H2		NW12L1 **NW16L1** NW20L1
Type of Canalis busbar trunking		**KTC2000**					
	Isc max kArms	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS			NS1600bN **NS2000N**			
	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	MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/L1		MTZ2 16 L1 **MTZ2 20 L1**		
	Masterpact NT	NT16H1	NT16H2				
	Masterpact NW	NW16N1 **NW20H1** NW25H1		NW16H1 **NW20H1** NW25H1		NW 16 L1 **NW20L1**	
Type of Canalis busbar trunking		**KTC2000 Reinforced short-circuit level**					
	Isc max kArms	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Compact NS			NS1600bN **NS2000N**	NS1600bH **NS2000H**		
	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	MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1**		MTZ2 16 H2/L1 **MTZ2 20 H2/H3/L1** MTZ2 25 H2/H3		MTZ2 16 L1 **MTZ2 20 L1**
	Masterpact NT	NT16H1	NT16H2				
	Masterpact NW	NW16N1 **NW20H1** NW25H1		NW16H1 **NW20H1** NW25H1		NW16H2 **NW20H2** NW25H2	NW16L1 **NW20L1**
Type of Canalis busbar trunking		**KTC2500**					
	Isc max kArms	**42 kA**	**50 kA**	**65 kA**	**80 kA**	**100 kA**	**150 kA**
Type of circuit breaker	Masterpact MTZ2	MTZ2 20 H1/H2/H3/L1 **MTZ2 25 H1/H2/H3** MTZ2 32 H1/H2/H3			MTZ2 20 H2/H3/L1 **MTZ2 25 H2/H3** MTZ2 32 H2/H3	MTZ2 20 L1	
	Masterpact NW			NW20H1 **NW25H1** NW32H1	NW20H2 **NW25H2** NW32H2	NW20L1	NW20L1
Type of Canalis busbar trunking		**KTC2500 Reinforced short-circuit level**					
	Isc max kArms	**42 kA**	**50 kA**	**65 kA**	**80 kA**	**100 kA**	**110 kA**
Type of circuit breaker	Masterpact MTZ2	MTZ2 20 H1/H2/H3/L1 **MTZ2 25 H1/H2/H3** MTZ2 32 H1/H2/H3			MTZ2 20 H2/H3/L1 **MTZ2 25 H2/H3** MTZ2 32 H2/H3		MTZ2 20 H3/L1(1) **MTZ2 25 H3** MTZ2 32 H3
	Masterpact NW			NW20H1 **NW25H1** NW32H1		NW20H2 **NW25H2** NW32H2	NW20L1 (150 kA) **NW25H3** NW32H3

(1) L1 up to 150 kA.

Canalis KTC

Type of Canalis busbar trunking		KTC3200					
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		
	Masterpact MTZ3	MTZ3 40 H1/H2					
	Masterpact NW			NW25H1 **NW32H1** NW40H1	NW25H2 **NW32H2** NW40H2 NW40bH1		

Type of Canalis busbar trunking		KTC3200 Reinforced short-circuit level					
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		MTZ2 25 H3 **MTZ2 32 H3** MTZ2 40 H3
	Masterpact MTZ3	MTZ3 40 H1/H2					MTZ3 40 H2
	Masterpact NW			NW25H1 **NW32H1** NW40H1		NW25H2 **NW32H2** NW40H2 NW40bH1	**NW32H3** NW40H3 NW40bH2

Type of Canalis busbar trunking		KTC4000					
	Isc max kArms	42 kA	50 kA	65 kA	90 kA	100 kA	110 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		
	Masterpact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2					
	Masterpact NW			NW32H1 **NW40H1** NW40bH1 NW50H1	NW32H2 **NW40H2** NW40bH1 NW50H1		

Type of Canalis busbar trunking		KTC4000 Reinforced short-circuit level					
	Isc max kArms	42 kA	50 kA	65 kA	90 kA	100 kA	120 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		MTZ2 32 H3 **MTZ2 40 H3**
	Masterpact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2					MTZ3 40 H2 MTZ3 50 H2
	Masterpact NW			NW32H1 **NW40H1** NW40bH1 NW50H1		NW32H2 **NW40H2** NW40bH1 NW50H1	NW32H3 **NW40H3** NW40bH2 NW50H2

Type of Canalis busbar trunking		KTC5000					
	Isc max kArms	42 kA	50 kA	65 kA	95 kA	100 kA	110 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3			MTZ2 32 H2/H3 MTZ2 40 H2/H3		
	Masterpact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2					
	Masterpact NW			NW40H1	NW40H2 NW40bH1 **NW50H1** NW63H1		

Type of Canalis busbar trunking		KTC5000 Reinforced short-circuit level					
	Isc max kArms	42 kA	50 kA	65 kA	90 kA	100 kA	120 kA
Type of circuit breaker	Masterpact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3			MTZ2 32 H2/H3 MTZ2 40 H2/H3		MTZ2 32 H3 MTZ2 40 H3
	Masterpact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2					MTZ3 40 H2 **MTZ3 50 H2** MTZ3 63 H2
	Masterpact NW			NW40H1 NW40bH1 **NW50H1** NW63H1		NW40H2 (≤ 95 kA) NW40bH1 (≤ 95 kA) **NW50H1 (≤ 95 kA)** NW63H1 (≤ 95 kA)	NW40H3 NW40bH2 **NW50H2** NW63H2

Type of Canalis busbar trunking		KTC6300 / KTC6300 Reinforced short-circuit level					
	Isc max kArms	42 kA	50 kA	65 kA		100 kA	120 kA
Type of circuit breaker	Masterpact MTZ3		MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3			MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	Masterpact MTZ3		MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**				MTZ3 40 H2 MTZ3 50 H2 **MTZ3 63 H2**

For a voltage of 660 / 690 V

Type of Canalis busbar trunking		KTC1000						
	Isc max kArms	25 kA	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/H2 **MTZ1 10 H1/H2**					
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/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 Canalis busbar trunking		KTC1000 Reinforced short-circuit level						
	Isc max kArms	25 kA	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/H2 **MTZ1 10 H1/H2**					
	Masterpact MTZ2	MTZ2 8 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/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 Canalis busbar trunking		KTC1350						
	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	NS1600bN			
	Masterpact MTZ1	MTZ1 08 H1/H2/L1 MTZ1 12 H1/H2 MTZ1 16 H1/H2	MTZ1 08 H1/H2					
	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/H2 NT12H1/H2 NT16H1/H2				
	Masterpact NW			NW10N1 NW12N1 NW16N1	NW10H1 NW12H1 NW16H1			

Type of Canalis busbar trunking		KTC1350 Reinforced short-circuit level						
	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	NS1600bN	NS1600bN		
	Masterpact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 12 H1/H2** MTZ1 16 H1/H2	MTZ1 08 H1/H2					
	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/H2 NT12H1/H2 NT16H1/H2				
	Masterpact NW			NW10N1 NW12N1 NW16N1	NW10H1 NW12H1 NW16H1	NW10H1 NW12H1 NW16H1	NW10L1 NW12L1 NW16L1	

Canalis KTC

Type of Canalis busbar trunking		KTC1600						
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		NS1600bN NS2000N		
	Masterpact MTZ1	MTZ1 12 H1/H2 MTZ1 16 H1/H2						
	Masterpact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/L1		MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1	
	Masterpact NT			NT12H1/H2 **NT16H1/H2**				
	Masterpact NW			NW12N1 **NW16N1**		NW12H1 **NW16H1** NW20H1	NW12L1 (≤ 75 kA) **NW16L1 (≤ 75 kA)** NW20 L1 (≤ 75 kA)	

Type of Canalis busbar trunking		KTC1600 Reinforced short-circuit level						
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		NS1600bN NS2000N		
	Masterpact MTZ1	MTZ1 12 H1/H2 MTZ1 16 H1/H2						
	Masterpact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/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			NT12H1/H2 **NT16H1/H2**				
	Masterpact NW			NW12N1 **NW16N1**		NW12H1 **NW16H1** NW20H1	NW12H2 (≤ 75 kA) **NW16H2 (≤ 75 kA)** NW20H2 (≤ 75 kA)	NW12L1 **NW16L1** NW20L1

Type of Canalis busbar trunking		KTC2000						
Isc max kArms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Compact NS		NS1600N	NS1600H		NS1600bN NS2000N NS2500N		
	Masterpact MTZ1	MTZ1 16 H1/H2						
	Masterpact MTZ2	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 16 L1 **MTZ2 20 L1**	
		MTZ2 25 H1/H2/H3						
	Masterpact NT			NT16H1/H2				
	Masterpact NW			NW16N1		NW16H1 **NW20H1** NW25H1		NW16L1 **NW20L1**

Type of Canalis busbar trunking		KTC2000 Reinforced short-circuit level						
Isc max kArms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Compact NS		NS1600N	NS1600H		NS1600bN NS2000N NS2500N		
	Masterpact MTZ1	MTZ1 16 H1/H2						
	Masterpact MTZ2	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 16 L1 MTZ2 20 H2/H3/L1 MTZ2 25 H2/H3	MTZ2 16 L1 **MTZ2 20 H3/L1** MTZ2 25 H3
		MTZ2 25 H1/H2/H3						
	Masterpact NT			NT16H1/H2				
	Masterpact NW			NW16N1		NW16H1 **NW20H1** NW25H1	NW16H2 (≤ 75 kA) **NW20H2 (≤ 75 kA)** NW25H2 (≤ 75 kA)	NW16L1 **NW20H3** NW25H3

Type of Canalis busbar trunking		KTC2500						
Isc max kArms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	Compact NS					NS2000N NS2500N NS3200N		
	Masterpact MTZ1	MTZ1 16 H1/H2						
	Masterpact MTZ2	MTZ2 20 N1/H1/H2/H3/L1			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1 MTZ2 25 H2/H3 MTZ2 32 H2/H3	MTZ2 20 L1
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3						
	Masterpact NT			NT16H1/H2				
	Masterpact NW					NW20H1 **NW25H1** NW32H1	NW20H2 **NW25H2** NW32H2	NW20L1

Type of Canalis busbar trunking		KTC2500 Reinforced short-circuit level						
	Isc 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						
	Masterpact MTZ2	MTZ2 20 N1/H1/H2/H3/L1 **MTZ2 25 H1/H2/H3** MTZ2 32 H1/H2/H3			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1 MTZ2 25 H2/H3 MTZ2 32 H2/H3	MTZ2 20 H3/L1 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 Canalis busbar trunking		KTC3200						
	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		
	Masterpact MTZ2	**MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3					**MTZ2 32 H2/H3** MTZ2 40 H2/H3	
	Masterpact MTZ3	MTZ3 40 H1/H2						
	Masterpact NW					NW25H1 **NW32H1** NW40H1	NW25H2 **NW32H2** NW40H2 NW40b H1/H2	

Type of Canalis busbar trunking		KTC3200 Reinforced short-circuit level						
	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		
	Masterpact MTZ2	**MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3					**MTZ2 32 H2/H3** MTZ2 40 H2/H3	**MTZ2 32 H3** MTZ2 40 H3
	Masterpact MTZ3	MTZ3 40 H1/H2						
	Masterpact NW					NW25H1 **NW32H1** NW40H1	NW25H2 **NW32H2** NW40H2	NW25H3 **NW32H3** NW40H3 NW40bH1/2

Type of Canalis busbar trunking		KTC4000						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Compact NS					NS3200N		
	Masterpact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3					MTZ2 32 H2/H3 MTZ2 40 H2/H3	
	Masterpact MTZ3	**MTZ3 40 H1/H2** MTZ3 50 H1/H2						
	Masterpact NW					NW32H1 **NW40H1**	NW32H2 **NW40H2** **NW40bH1/H2** NW50 H1/H2	

Type of Canalis busbar trunking		KTC4000 Reinforced short-circuit level						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Compact NS					NS3200N		
	Masterpact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3					MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 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 Canalis busbar trunking		KTC5000						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	95 kA
Type of circuit breaker	Masterpact MTZ2					MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	Masterpact MTZ3					MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2		

Type of Canalis busbar trunking		KTC5000 Reinforced short-circuit level						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Masterpact MTZ2					MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	Masterpact MTZ3					MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2		

Type of Canalis busbar trunking		KTC6300						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	Masterpact MTZ2					MTZ2 40 H1/H2/H3	MTZ2 40 H2/H3	MTZ2 40 H3
	Masterpact MTZ3					MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**		

Canalis KTC

Standard IEC 60364-5-51 categorises a large number of external influences to which electrical installations can be subjected, for instance the presence of water, solid objects, shocks, vibrations and corrosive substances.
The importance of these influences depends on the installation conditions.
For example, the presence of water can vary from a few drops to total immersion.

Degree of protection IP

Standard IEC 60529 (February 2001) indicates the degree of protection provided by electrical equipment enclosures against accidental direct contact with live parts and against the ingress of solid foreign objects or water.

This standard does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gases, fungi or vermin.

The IP code comprises 2 characteristic numerals and may include an additional letter when the actual protection of persons against direct contact with live parts is better than that indicated by the first numeral.

The first numeral characterises the protection of the equipment against penetration of solid objects and the protection of people.
The second numeral characterises the protection of the equipment against penetration of water with harmful effects.

Remarks concerning the degree of protection IP

The degree of protection IP must always be read and understood numeral by numeral and not as a whole.
For example, an IP31 enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount enclosure is not suitable.

The degrees of protection indicated in this catalogue are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when the installation and device mounting are carried out in accordance with professional standard practice.

Additional letter

Protection of persons against direct contact with live parts.

The additional letter is used only if the actual protection of persons is higher than that indicated by the first characteristic numeral of the IP code.
If only the protection of persons is of interest, the two characteristic numerals are replaced by the letter "X", e.g. IPxxB.

Degree of protection IK

Standard IEC 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.

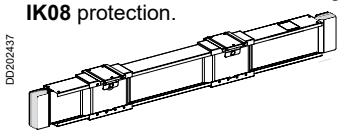
IK code●●

The IK code comprises 2 characteristic numerals (e.g. IK05).

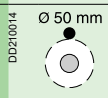
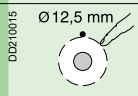
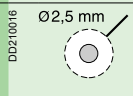
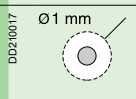
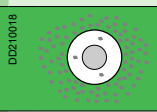
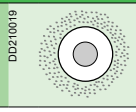
Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.

Meaning of the numerals and letters representing the degree of protection IP.

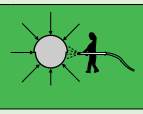
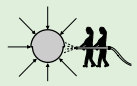
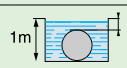
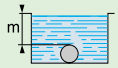
The Canalis KTC busbar trunking products are designed to provide **IP55D and IK08** protection.



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	
0	Non-protected.	Non-protected.	
1	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).	
2	Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm.	Protected against direct finger contact.	
3	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.	
4	Protected against the penetration of solid objects having a diameter greater than 1 mm.	Protected against direct contact with a 1 mm diameter wire.	
5	Dust protected (no harmful deposits).	Protected against direct contact with a 1 mm diameter wire.	
6	Dust tight.	Protected against direct contact with a 1 mm diameter wire.	

2nd characteristic numeral: corresponds to protection of equipment against penetration of water with harmful effects.

	Protection of equipment	
0	Non-protected.	
1	Protected against vertical dripping water (condensation).	
2	Protected against dripping water at an angle of up to 15°.	
3	Protected against rain at an angle of up to 60°.	
4	Protected against splashing water in all directions.	
5	Protected against water jets in all directions. Test duration: 1 mn/m² casing	
6	Protected against powerful jets of water and waves.	
7	Protected against the effects of temporary immersion.	
8	Protected against the effects of prolonged immersion under specified conditions.	

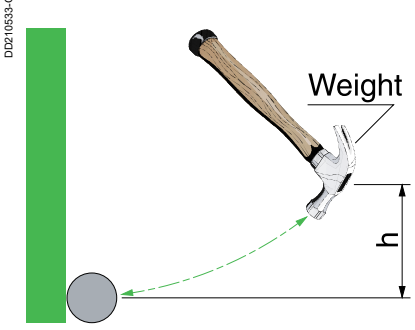
Additional letter

Corresponds to protection of persons against direct contact with live parts.

A	With the back of the hand.
B	With the finger.
C	With a 2.5 mm diameter tool
D	With a 1 mm diameter tool

Degrees of protection IK against mechanical impact

The IK code comprises 2 characteristic numerals corresponding to a value of impact energy, in joules.



	Weight (kg)	Height (cm)	Energy (J)
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

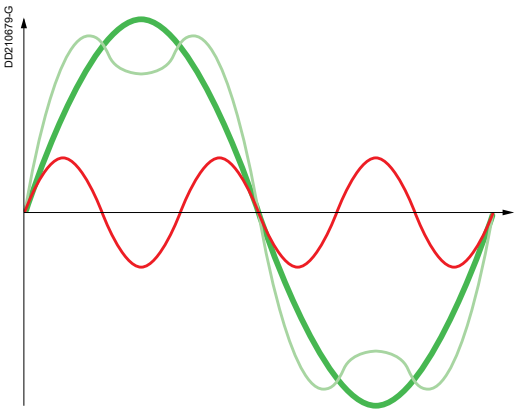
Canalis KTC

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.



Harmonic order
The order is the ratio between the harmonic frequency fn and the fundamental frequency (generally the power frequency, 50 or 60 Hz):
n = fn/f1

By definition, the fundamental f1 is order 1 (H1).

Third-order harmonics (H3) have a frequency of 150 Hz (when f1 = 50 Hz).

Estimating THD (total harmonic distortion)

The presence of third-order harmonics depends on the applications involved.
It is necessary to carry out an in-depth study on each non-linear load to determine the level of H3:
ih3 (%) = 100 x i3 / i1
- i3 = rms current of H3
- i1 = rms current of the fundamental

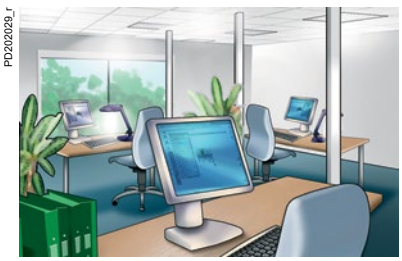
Assuming that H3 is preponderant among harmonics, the THD is close to the value of H3 (ih3 (%)).

There are two decisive factors:
- the types of connected devices:
  - disturbing loads: fluorescent lighting, computer hardware, rectifiers, arc furnaces, etc.
  - non-disturbing loads: heating, motors, pumps, etc.
- the ratio between the two types of disturbing loads.



Workshops
Mix of disturbing loads (computers, UPSs, fluorescent lighting) and non-disturbing loads (motors, pumps, heating).

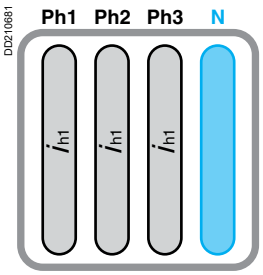
Low probability of harmonics
THD ≤ 15 %.



Offices
Numerous disturbing loads (computers, UPSs, fluorescent lighting).

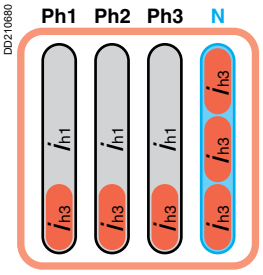
High probability of harmonics
15 % < THD ≤ 33 %.

Effects of harmonics on Canalis busbar trunking



Fundamental frequency: ih1 (50 Hz)

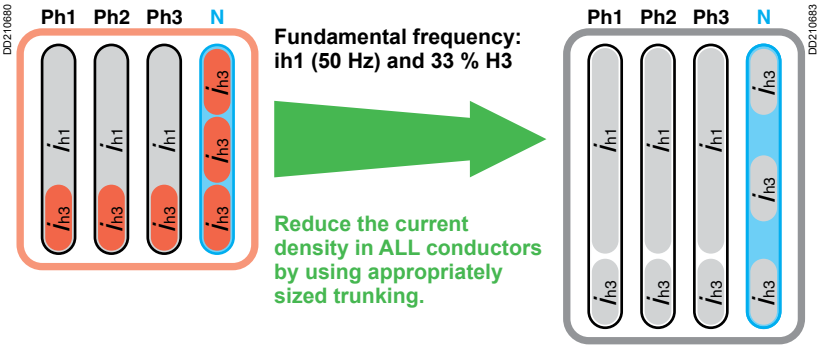
No current in the neutral.
The conductors are correctly sized.



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



Busbar-trunking selection

THD ⩽ 15 %	15 % < THD ⩽ 33 %	THD > 33 %	Busbar trunking	Rating (A)
1000	800	630	KTC	1000
1350	1000	800	KTC	1350
1600	1350	1000	KTC	1600
2000	1600	1350	KTC	2000
2500	2000	1600	KTC	2500
3200	2500	2000	KTC	3200
4000	3200	2500	KTC	4000
5000	4000	3200	KTC	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 KTC 3200 A.

For more information on harmonics

See the Cahier Technique publications on the Schneider Electric web site: www.se.com

Canalis KTC

Determining the DC current value

Thermal effect

Rule

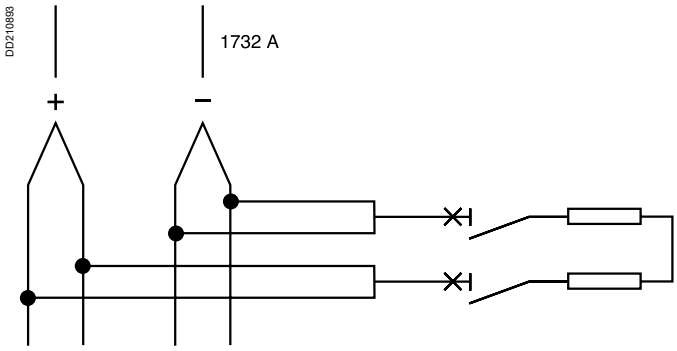
The total power dissipated as heat must remain constant in the duct:
Pac = Pdc

Where:
- the power dissipated as heat: **Pac** = 3 x R x Iac² where:
  - R= resistance of a conductor
  - Iac = conductor rms current
- the dissipated power for 4 conductors: **Pdc** = 4 x R x Idc² where:
  - Idc = direct current.

Selection table

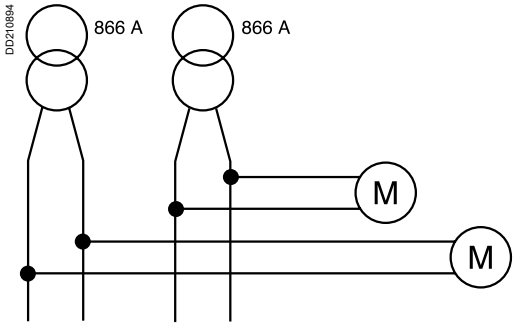
- 1 source

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
1000	1732	866
1350	2165	1083
1600	2771	1385
2000	3464	1732
2500	4330	2165
3200	5542	2771
4000	6928	3464
5000	8660	4330
6300	10910	5455

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 Isc + 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.

Canalis KTC

KT busbar trunking derating at 400 Hz

Values at 35 °C.
Application of a derating coefficient at 400 Hz combined with that for temperature derating.

Busbar trunking derating

	KTC10	KTC13	KTC16	KTC20	KTC25	KTC32	KTC40	KTC50
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)

	KTC10	KTC13	KTC16	KTC20	KTC25	KTC32	KTC40	KTC50
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

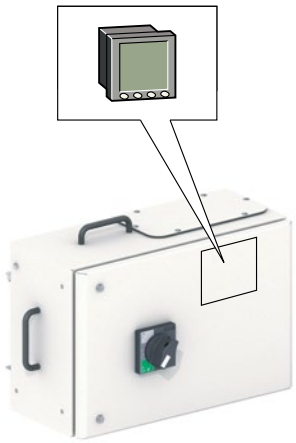
	KTC10	KTC13	KTC16	KTC20	KTC25	KTC32	KTC40	KTC50
Average ohmic resistance of phase and neutral conductors at In (1) Rb1ph (mΩ/m)	0.092	0.079	0.066	0.051	0.044	0.039	0.029	0.023
Average resistance at In and rated F(Hz) (1) Xph (mΩ/m)	0.14	0.128	0.120	0.104	0.088	0.064	0.059	0.056

(1) In line with the CENELEC RO.64.013 document.

Canalis KTC

Loads monitored by a power meter in tap-off units

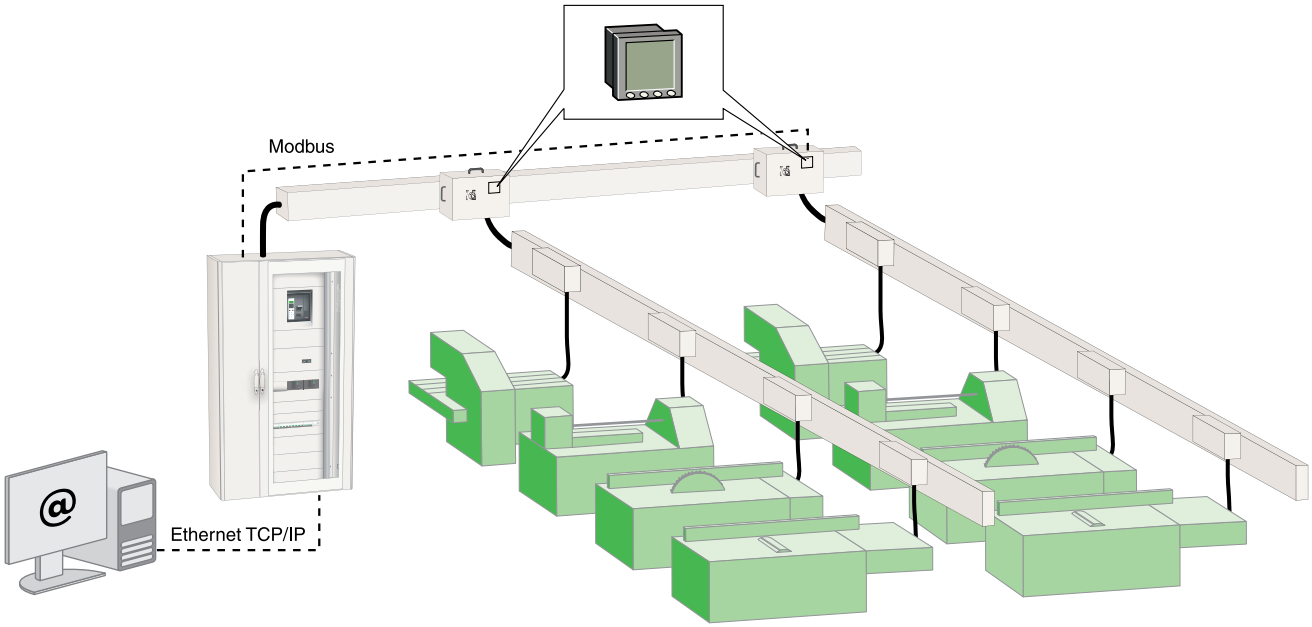
DD205664



Canalis offers measurement and metering units that can be mounted on both Canalis KS and KT trunking ranges, available in two ratings (250 A and 400 A). They are equipped with mounting plates designed to receive a PowerLogic PM810UMG Power Meter, a Compact NSx circuit breaker and the associated current transformers.

Data are collected by a Modbus serial communication bus and converted in Ethernet TCP/IP through an EGX gateway. Provided informations can easily be used in a supervision system.

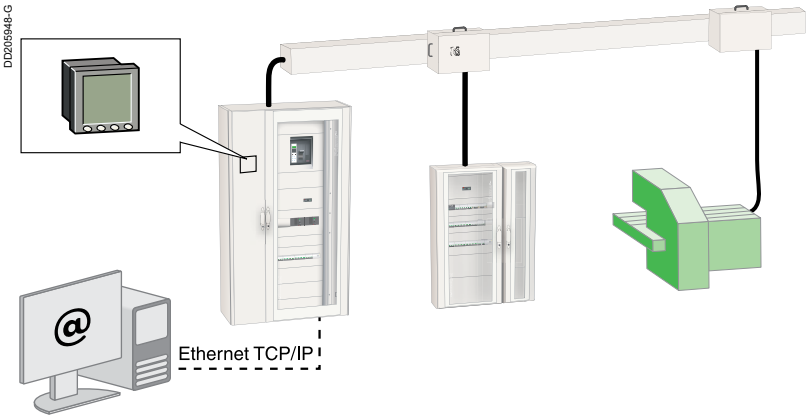
DD205947-G



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.

DD205948-G



Canalis KTC

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 1.30 hours in an insulating sheath.

Definition of tests

1 - Insulating material resistance test to abnormal temperatures

Objective
To check a material will not be suspected as being the origin of a secondary fire outbreak.

As defined in standards § 8.1.3 IEC 61439-1 and IEC 60695-2-10 to -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.

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

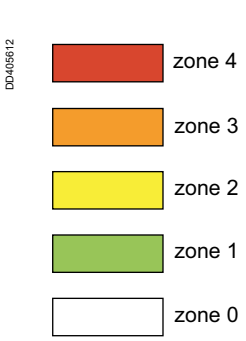
Objective
To check all the busbar trunking's electrical circuits are preserved in fire conditions.

As defined in standard DIN 4102 part 12.

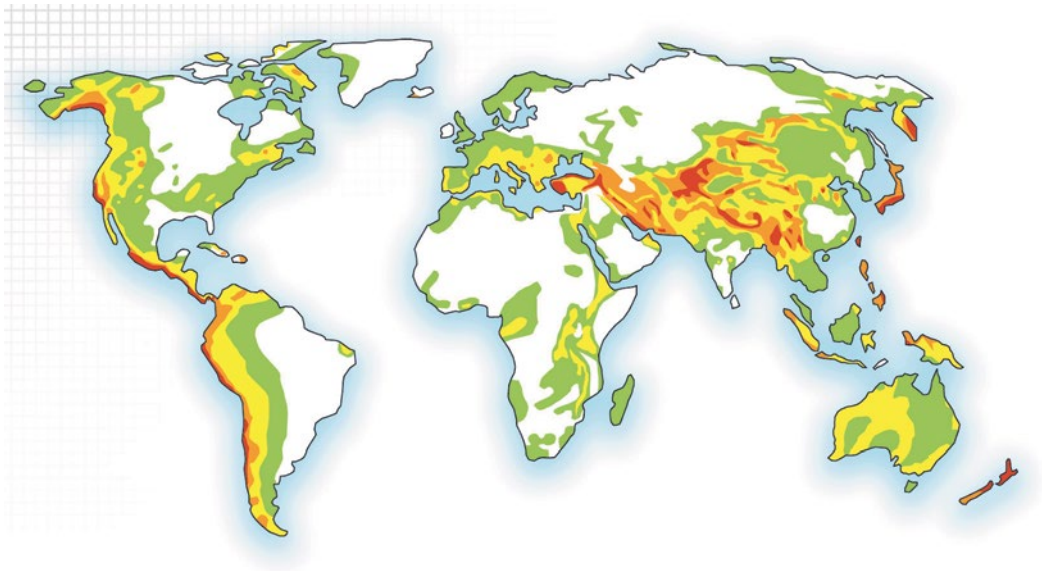
Method
Its entire length inserted, the busbar trunking is taken as a specimen in an insulating sheath.

Result criteria
The specimen is considered to have passed the test if:
- conductor continuity is preserved
- there is no short-circuit between conductors.

Canalis KTC

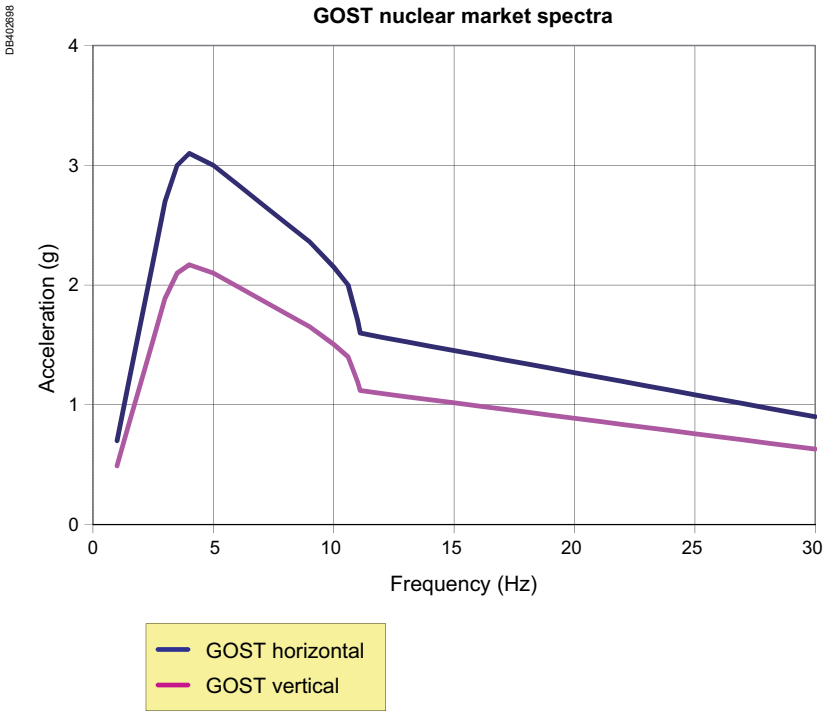


Seismic zones worldwide



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

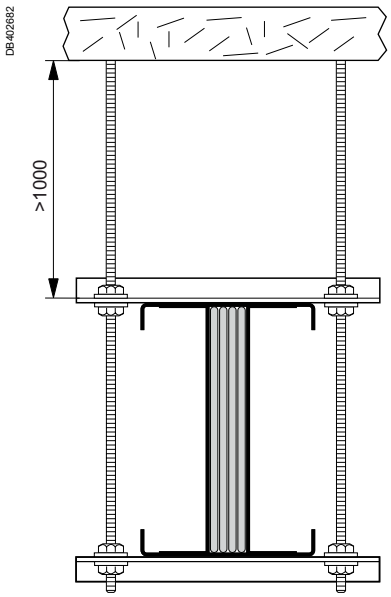


Installation and support

Supports for conventional applications can be used for seismic applications by following the recommendations below:

■ For flexible support

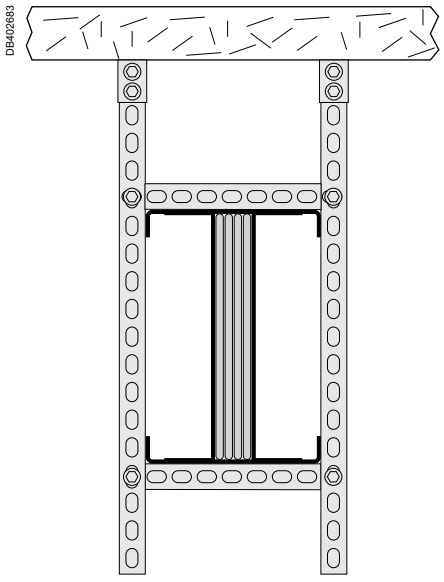
Use supports and rods, with a minimum length of 1000 mm and additional clamping as per the following diagram.



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.

Canalis KTC

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.

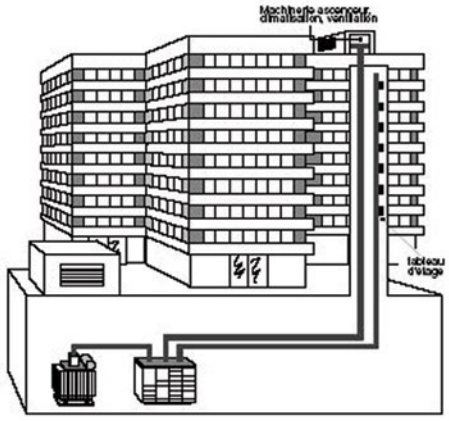
Brand:	-	Busbar trunking rating:	-
Equipment type:	-	Serial number:	-
Reference:	-	Date of manufacture:	-
Transformer power:	-	Source circuit breaker (busbar trunking protection):	-

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.

Testing and commissioning procedure

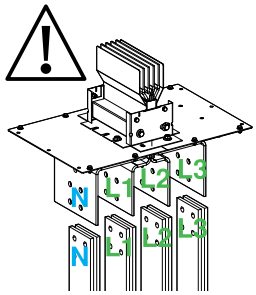
DD206098



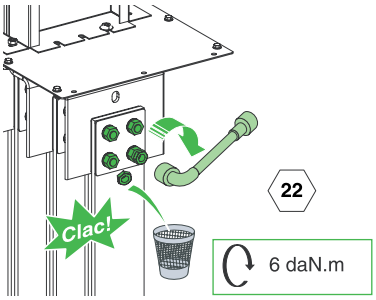
Points concerning installation and fittings
Assembly compliance with the specifications of the installation drawing, service instructions and the catalogue:
- no busbar trunking twisting
- positioning and distance of the busbar trunking with respect to the building
- fixings, compliance of the between 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.

Checking power connections

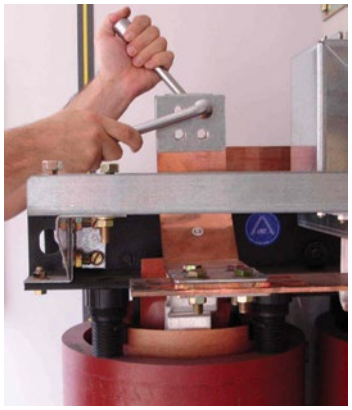
DD205950-G



DD210764-G



PB104861



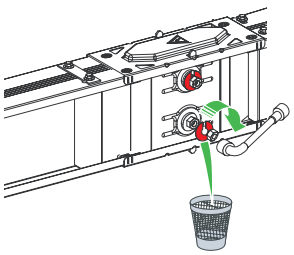
General visual inspection

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.

DD205951-G



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 self-inspection 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 U test DC = 500 V Ri ≥ 1 MΩ
- rated voltage > 500 V U test DC = 1000 V Ri ≥ 1 MΩ.

Canalis KTC

Checking the earth network and locks

PB104862



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 2nd 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 phase-earth 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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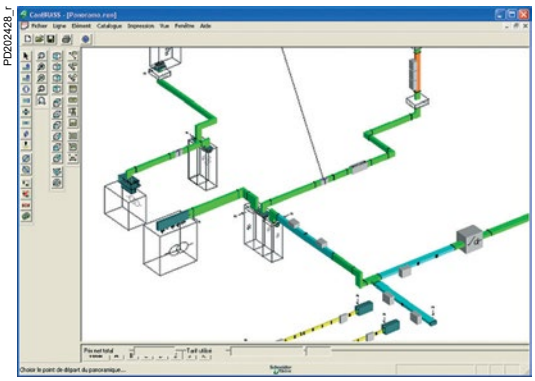
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Canalis KTC

PowerSet Canalis Design software

PD202428_r



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.

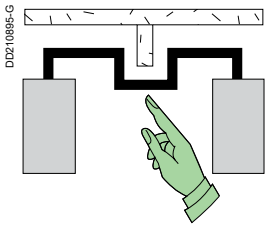
The Canalis KT line is easy to specify simply by indicating the required dimensions. However, it is strongly advised to use the shortest and simplest path possible between the transformer and the switchboard.
It is important to carefully plan the layout of the transformer and switchboard in order to 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

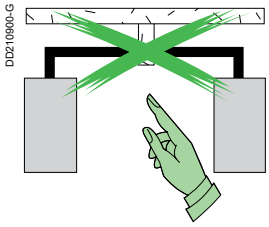
Before defining your busbar trunking run, it is recommended you pay particular attention to the various parameters which could be detrimental to the installation.

Obstacles that obstruct the busbar trunking such as beams, pipes, etc.

DD210895-G

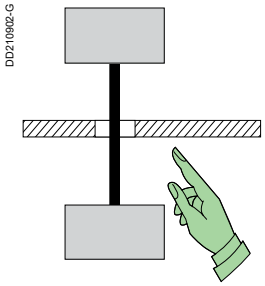


DD210900-G

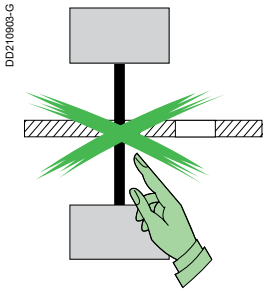


Badly positioned places for going through walls and floors.

DD210902-G

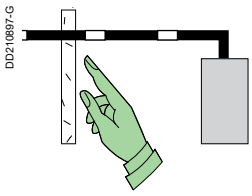


DD210903-G

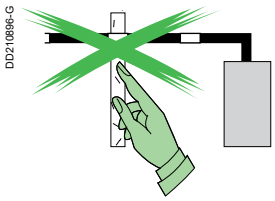


Joint positions in the middle of a partition wall.

DD210897-G

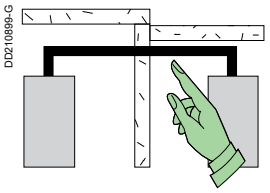


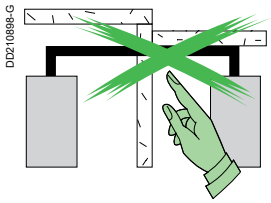
DD210896-G



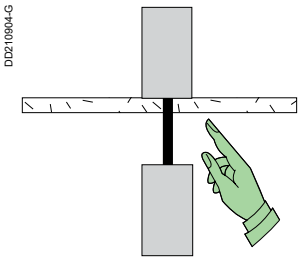
Insufficient ceiling height.

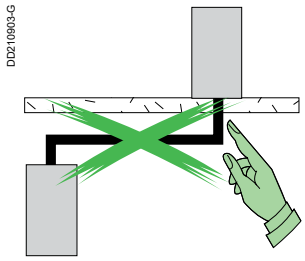
If the busbar trunking must be installed edgewise between a transformer and switchboard, ensure the ceiling height is sufficient for fitting the joint blocks from the top.
Reserve a space between the busbar trunking and the ceiling equal to 100 mm (variable depending on the rating, see "Catalogue numbers and dimensions").



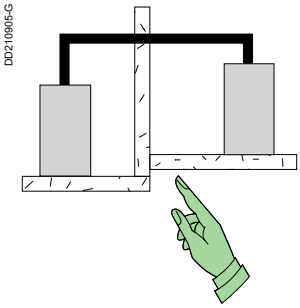


Going through a floor to bottom feed a switchboard on the next floor.





Difference in floor levels of 2 rooms.

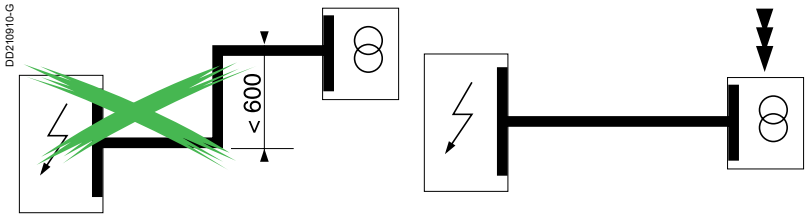


Also make sure that as the work progresses other tradesmen do not carry out installations that could hinder your initial layout.

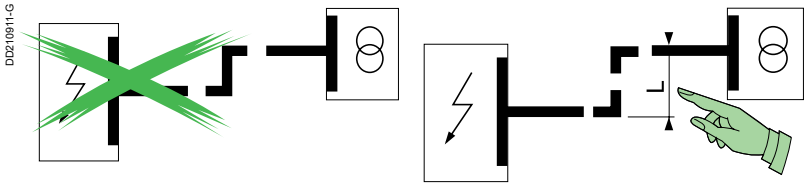
Canalis KTC

Examples of link optimisation

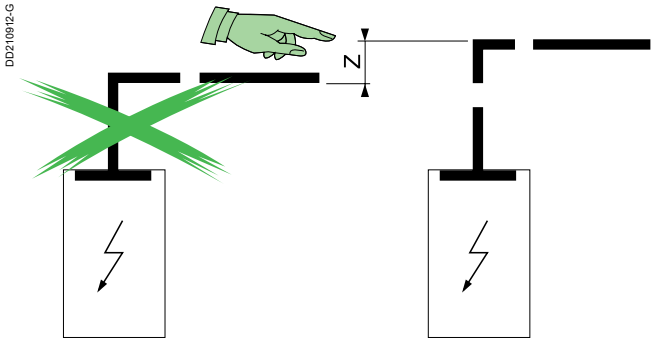
Example 1
Reducing the number of changes of direction by modifying the switchboard or transformer layout.



Example 2
Use of 2 standard elbows in place of a made to measure zed by increasing dimension "L".

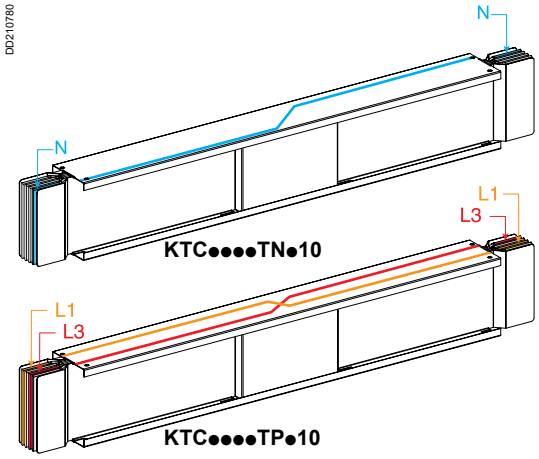


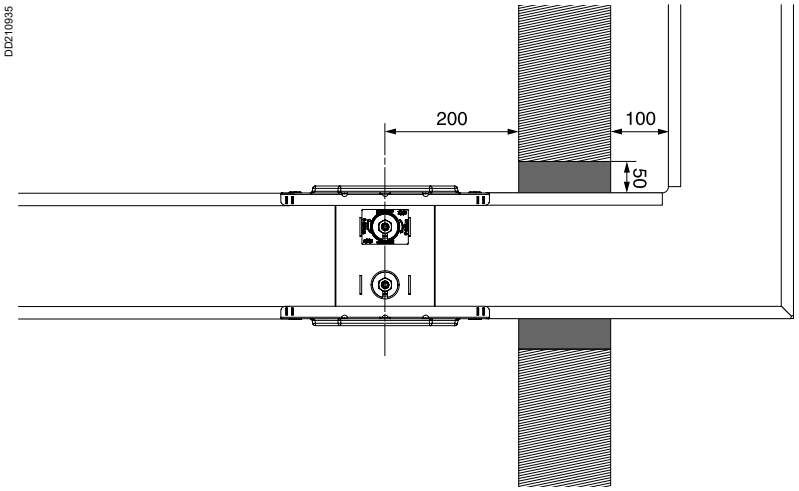
Modification of the busbar trunking height
By slightly increasing dimension "Z", replace a made to measure elbow feed connector with a standard feed connector and standard elbow section.



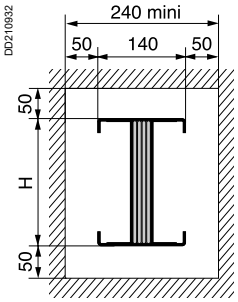
Neutral position

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.

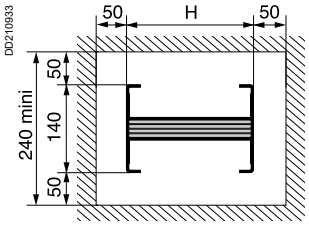




Edgewise passage through partition wall

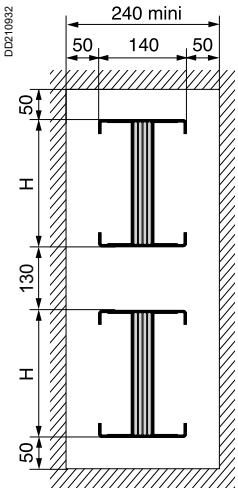


Flat passage through partition wall

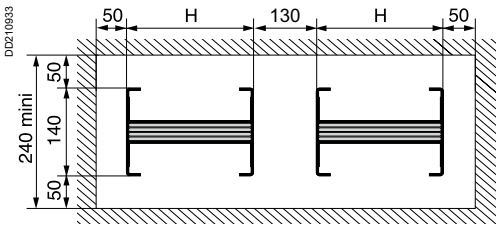


Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm)	74	104	124	164	204	244	324	404	2 x 244 + 130

Edgewise passage through partition wall for 6300



Flat passage through partition wall for 6300



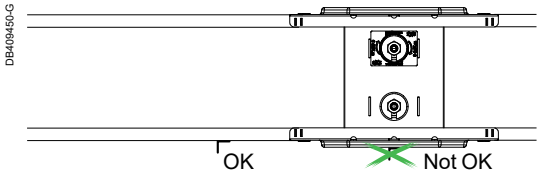
Layout advice
Positioning and supports

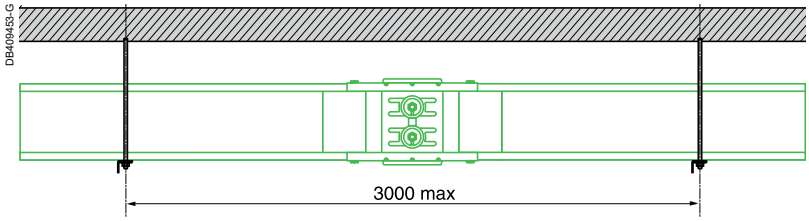
Canalis KTC

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

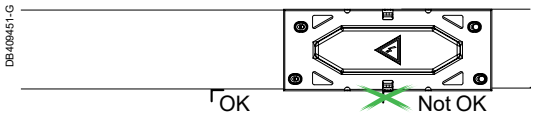
The maximum recommended distance between supports is 3 metres.
In all cases, provide for 2 supports for 4 metre sections.
For clamping busbar trunking to support brackets, see page 196.

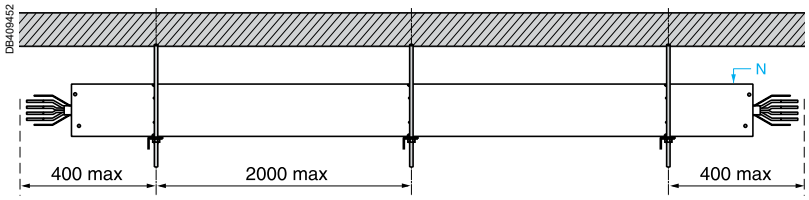




Flat horizontal installation

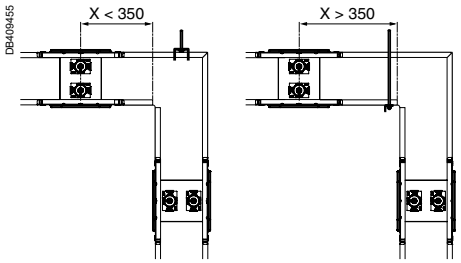
The recommended distance between supports is 2 metres. In addition, a support must be placed at 400 mm maximum from the joint block axis.
For clamping busbar trunking to support brackets, see page 196.



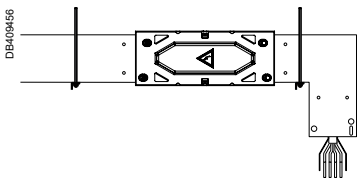


Example of spreading out supports

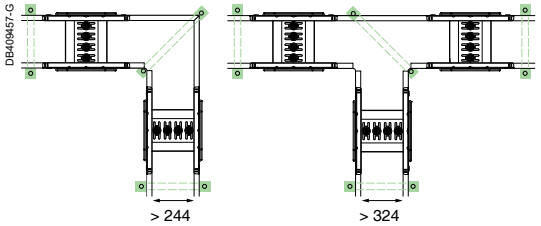
Supporting of LC elbow with a vertical branch

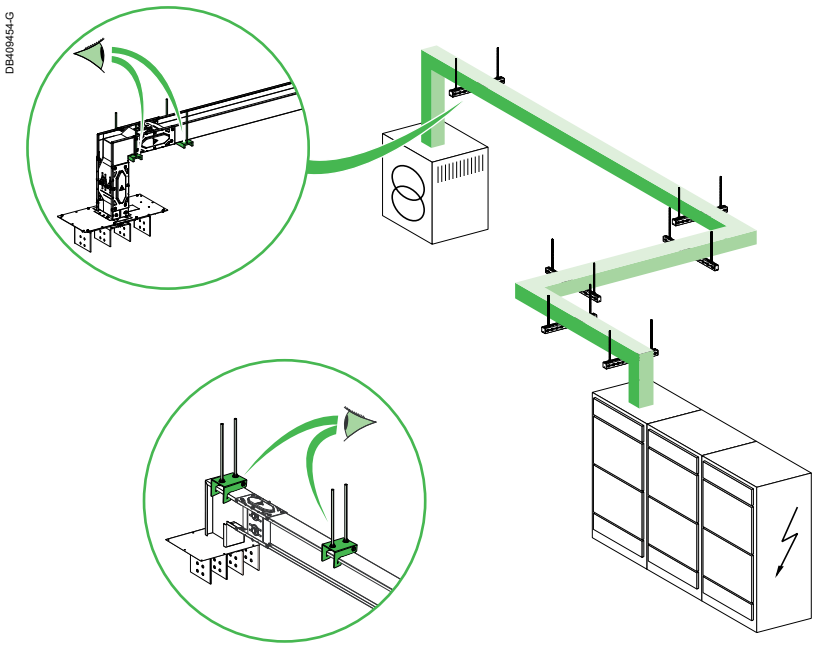


Supporting of LP elbow with a vertical branch



Supporting of LC elbows and TC tees
(top view)



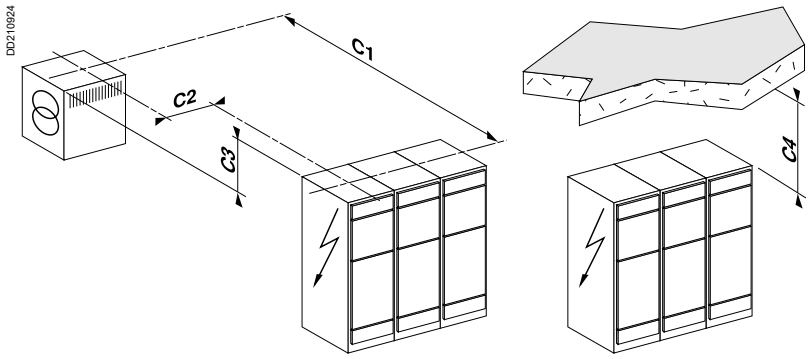


Rules to follow

- 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.

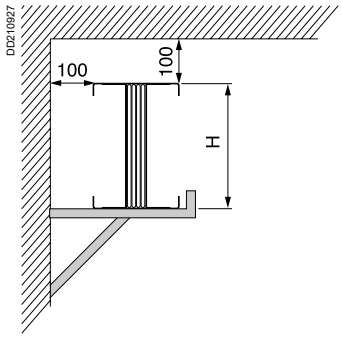
Defining the layout, dimensions to be provided

The position of the joint block with respect to the transformer axes and switchboard edges (defined in the "Installation guide").

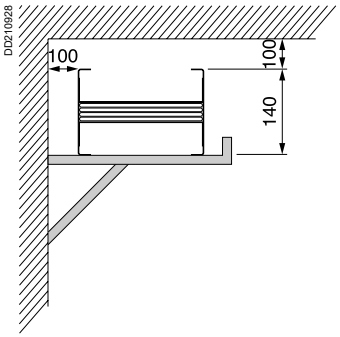


Distance of the busbar trunking from the wall

Edgewise installation



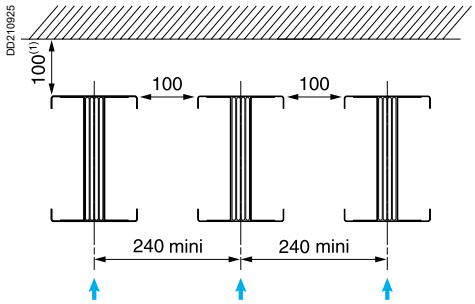
Flat installation



Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm)	74	104	124	164	204	244	324	404	2 x 244 + 130

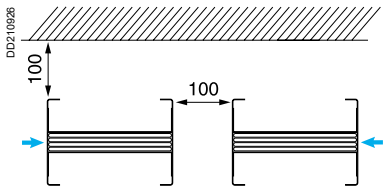
Distance between busbar trunking (without tap-off units)

Edgewise installation



(1) Provide 2 times the height if the joint block must be fitted from the top.
➔ Direction of fitting joint blocks.

Flat installation

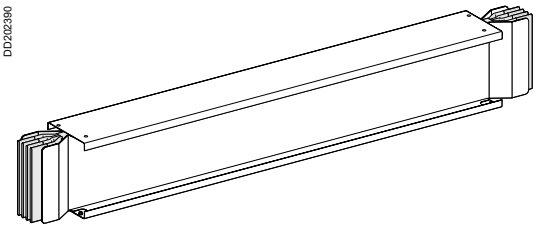


➔ Direction of fitting joint blocks.

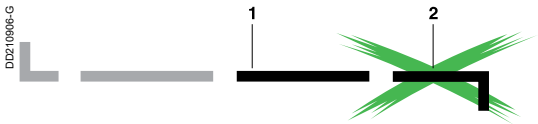
Layout advice
Anticipate unexpected worksite problems

Canalis KTC

Undecided section



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.

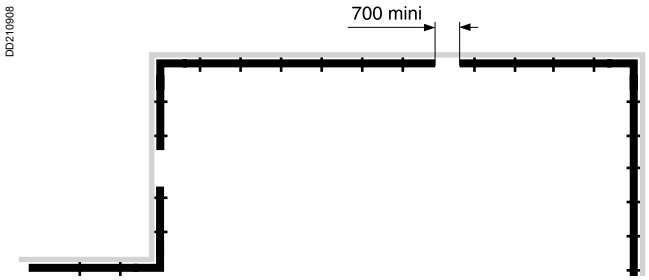


1: Standard straight section.
2: Made to measure elbow.



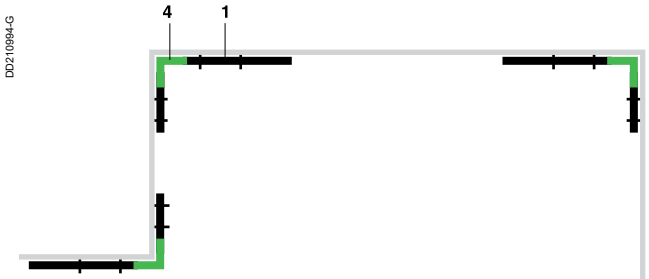
3: Made to measure straight section.
4: Standard elbow.

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

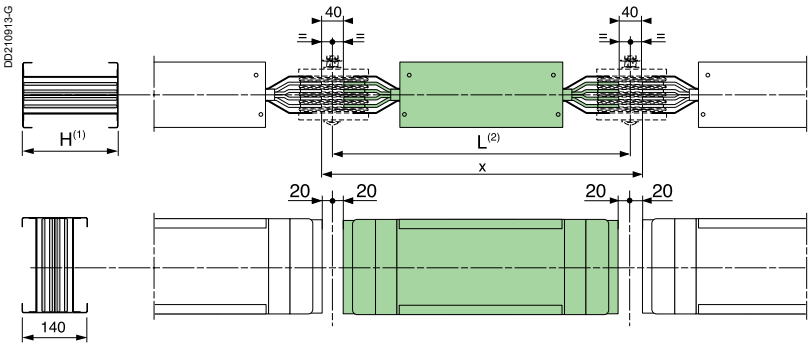
In order to provide for the place needed for undecided section, install the elbows and the sections attached to the elbows in each angle (support each assembly using 2 supports on each straight section).



And then complete the layout with standard and made to measure straight sections.

Straight section

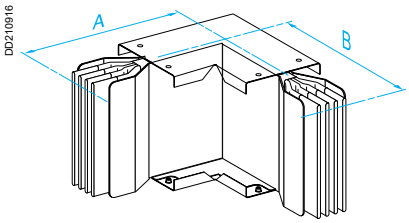
The nominal length "**L**" of a straight section is measured from the axis of the joint block to the other axis of the joint block, in millimetres (the joint block axis is located 20 mm from the end of the bars).
Dimension **L** of the standard or made to measure section = **x** - 40 mm.



(1) For the different busbar trunking heights, see page 187.
(2) See "Run sections" in "Catalogue numbers and Dimensions".
x: measured dimension.

Example: **x** = 1860 mm hence L = 1860 - 40 = 1820 mm.

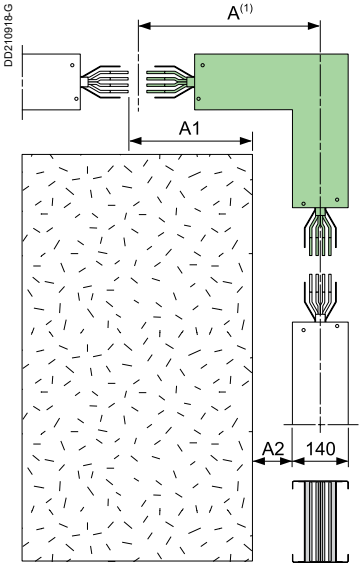
Change-of-directions



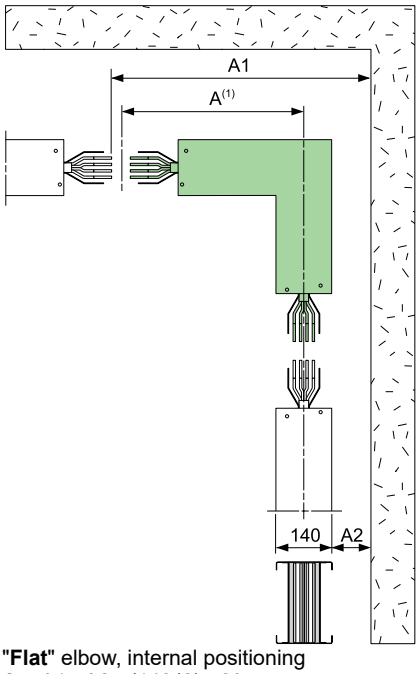
A and **B**: See "Changes of direction" in "Catalogue numbers and Dimensions".

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.



"**Flat**" elbow, external positioning
A = A1 + A2 + (140/2) - 20

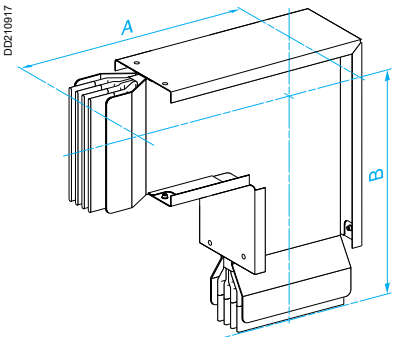


"**Flat**" elbow, internal positioning
A = A1 - A2 - (140/2) - 20

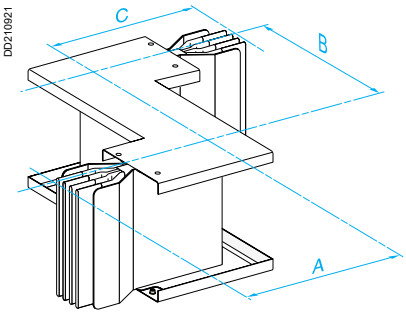
(1) See "Changes of direction" in "Catalogue numbers and Dimensions".

Layout advice
Tips for determining dimensions at the worksite

Canalis KTC



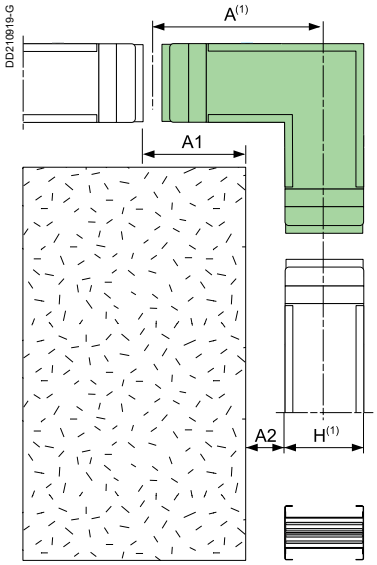
A and **B**: See "Changes of direction" in "Catalogue numbers and Dimensions".



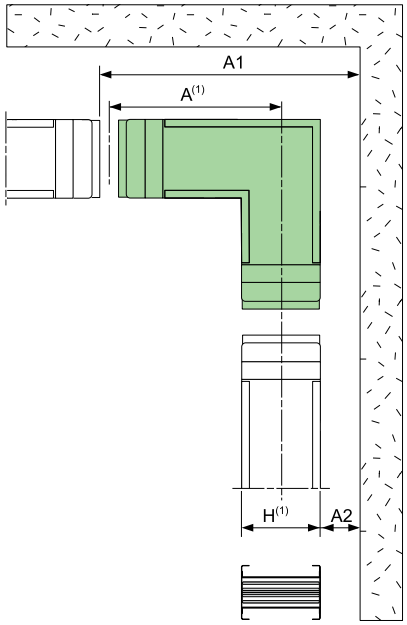
A, **B** and **C**: See "Changes of direction" in "Catalogue numbers and Dimensions".

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.



"**Edgewise**" elbow, external positioning
A = A1 + A2 + (H/2) - 20

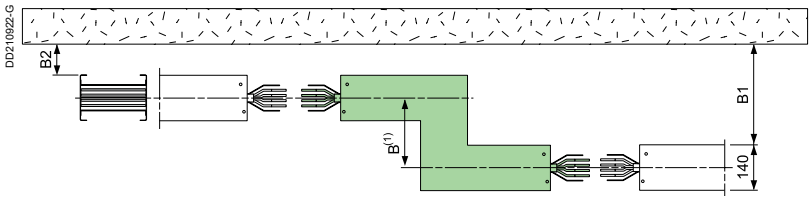


"**Edgewise**" elbow, internal positioning
A = A1 - A2 - (H/2) - 20

(1) See "Changes of direction" in "Catalogue numbers and Dimensions".

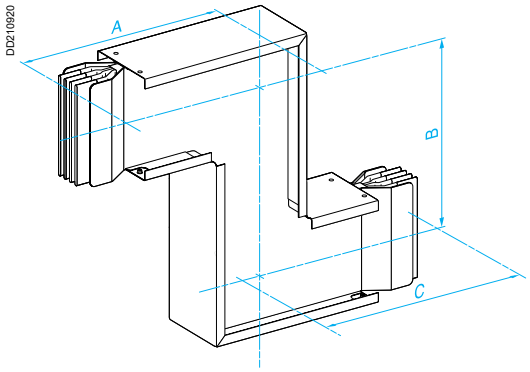
Flat Zed

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.



B = B1 - B2

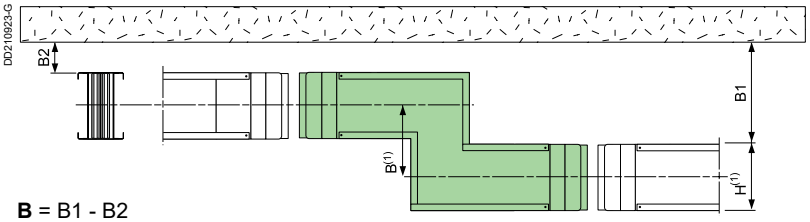
(1) See "Changes of direction" in "Catalogue numbers and Dimensions".



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.



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.

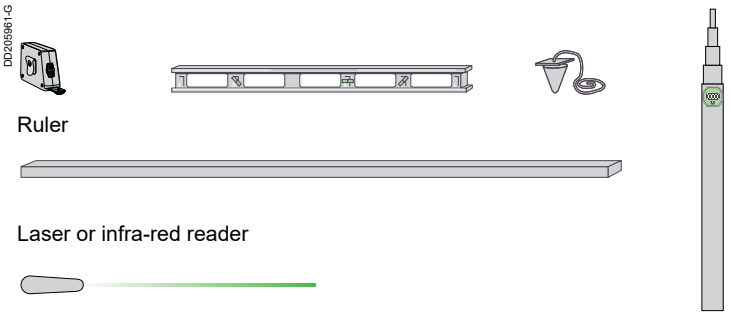
Tools

Tape measure

Spirit level

Lead line

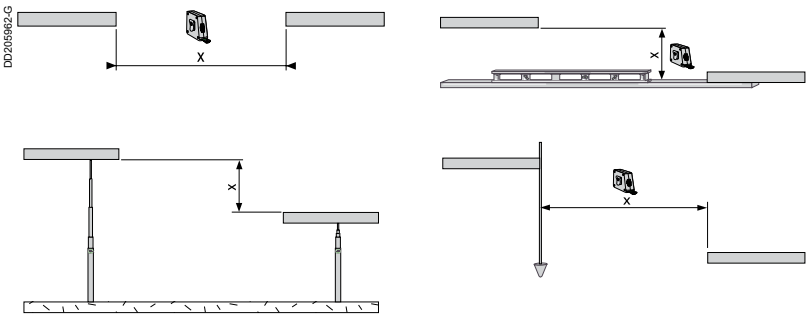
Stick



Ruler

Laser or infra-red reader

Their use



Horizontal distribution
Positioning the tap-off units

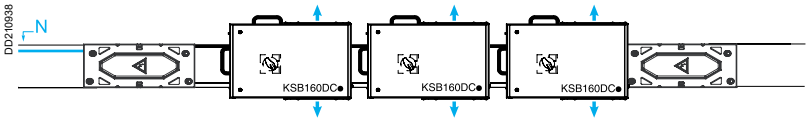
Canalis KTC

It is possible to combine the following in the same installation:
■ straight transport sections with straight sections containing fixed or plug-on tap-off points
■ straight sections of different lengths
■ straight sections with different numbers of fixed or plug-on tap-off points
■ …

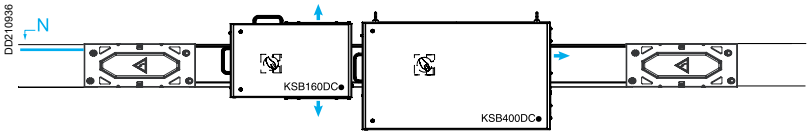


Positioning the tap-off units on the busbar trunking

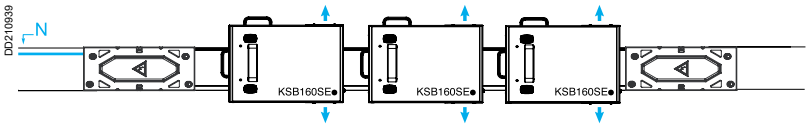
Several configurations are possible.
Some examples:
■ on a 2000 mm straight section with plug-on tap-off points (KTC●●●●ED●20):
□ 3 x 160 A circuit breaker tap-off units:



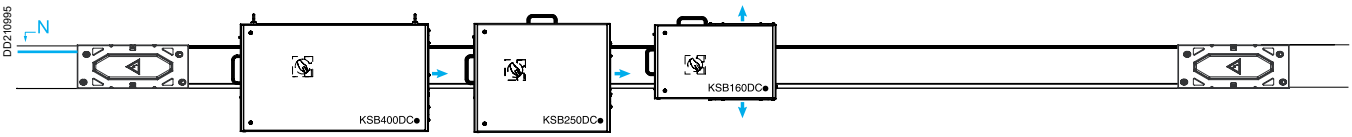
□ 1 x 400 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit



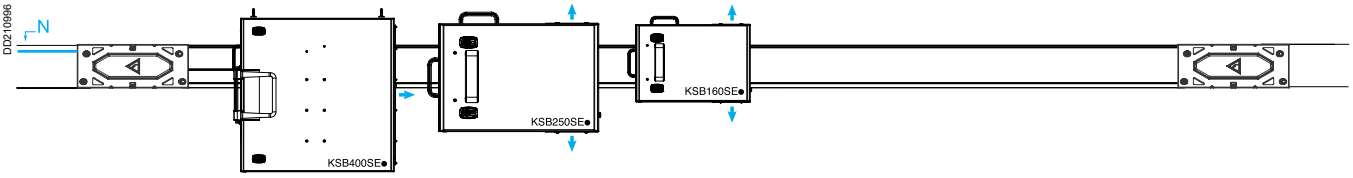
□ 3 x 160 A fuse tap-off units:



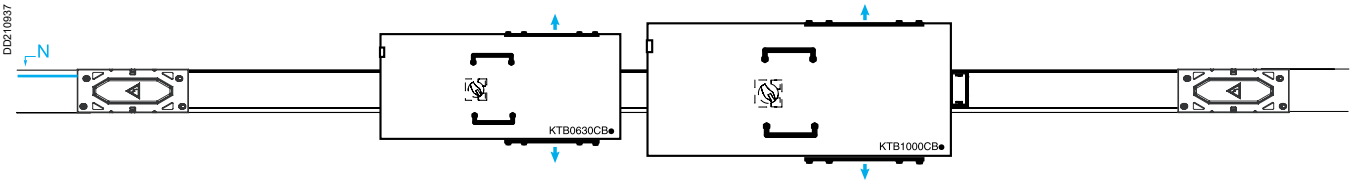
■ on a 4000 mm straight section with plug-on tap-off points (KTC●●●●ED●40):
□ 1 x 400 A circuit breaker tap-off unit, 1 x 250 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit:



□ 1 x 400 A fuse tap-off unit, 1 x 250 A fuse tap-off unit and 1 x160 A fuse tap-off unit:

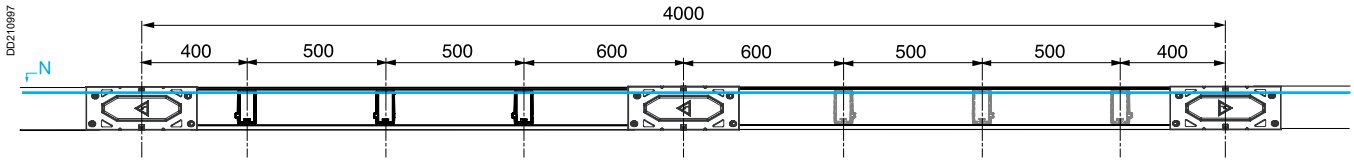


■ on a 4000 mm straight section with fixed tap-off points (KTB●●●●EB●40):
□ 1 x 400 to 630 A fixed tap-off unit and 1 x 800 to 1000 A fixed tap-off unit:



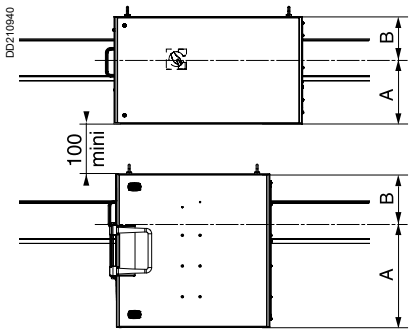
→ Cable exit.

When the tap-off units have to be distributed along the length of the busbar trunking, use 2 metre sections and alternate the tap-off point positions.



Recommendations for installing 2 parallel busbar trunking runs

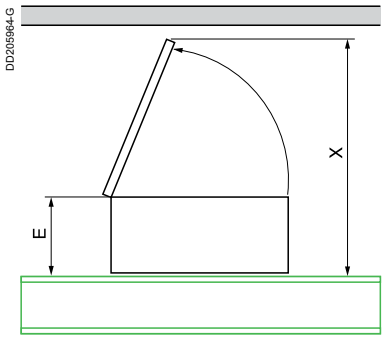
For an installation with tap-off units, provide for a between centres distance that takes into account the minimum dimension of 100 mm and the dimensions A and B of the tap-off units.



Type	Cat. no.	Dimensions (mm)	
		A	B
Circuit breaker tap-off units	KSB160DC●	160	150
	KSB250DC●	240	160
	KSB400DC●	240	160
	KTB0630CB●	175	175
	KTB1000CB●	275	275
Fuse tap-off units	KSB160SE●	150	150
	KSB250SE●	250	160
	KSB400SE●	440	160

Tap-off unit door opening

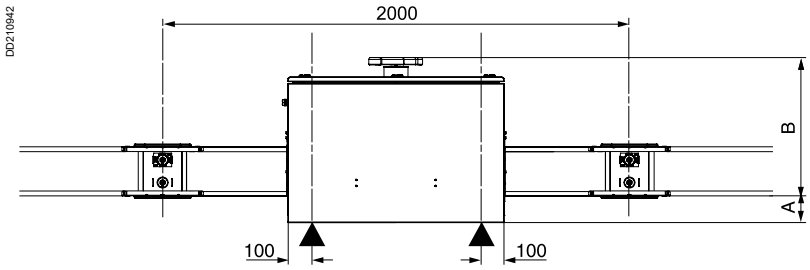
Provide for a minimum distance of 1000 mm between the busbar trunking and the ceiling to allow for the opening of tap-off unit doors.



Type	Cat. no.	Dimensions (mm)	
		X	E (1)
Circuit breaker tap-off units	KSB160DC●	625.5	246
	KSB250DC●	726.5	300
	KSB400DC●	976,5	350
Fuse tap-off units	KSB160SE●	577,5	207
	KSB250SE●	777	258
	KSB400SE●	855	316

(1) With the handle.

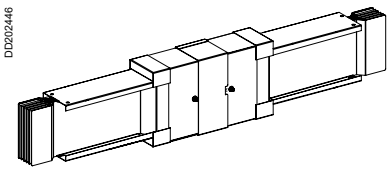
Installing an isolator or run protective device



Rating (A)	Dimensions (mm)	
	A	B
1000	174	514
1350	159	529
1600	149	539
2000	129	559
2500	109	579
3200	89	599

Horizontal distribution
Checking and compensating for expansion

Canalis KTC



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.

Long part runs

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

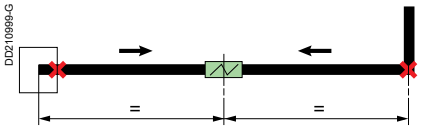
If the busbar trunking length is greater than 30 metres, provide for expansion sections and appropriate blocking means. The ends and, in some cases, the centre of part runs must be blocked in order to direct the extensions towards the expansion sections.

Layout of expansion sections and blocking means for the following busbar trunking lengths:

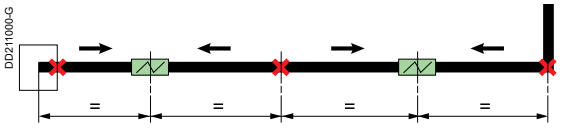
- 0 to 30 metres:



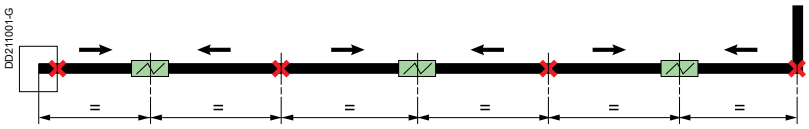
- 31 to 60 metres:



- 61 to 90 metres:



91 to 120 metres:

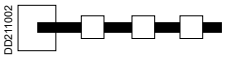


Blocked fixing supports
Expansion section
Direction of expansion

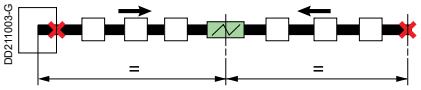
Horizontal runs with tap-off units

Layout of expansion sections and blocking means for the following busbar trunking lengths:

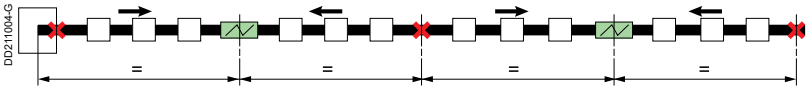
■ 0 to 30 metres:



■ 31 to 60 metres:

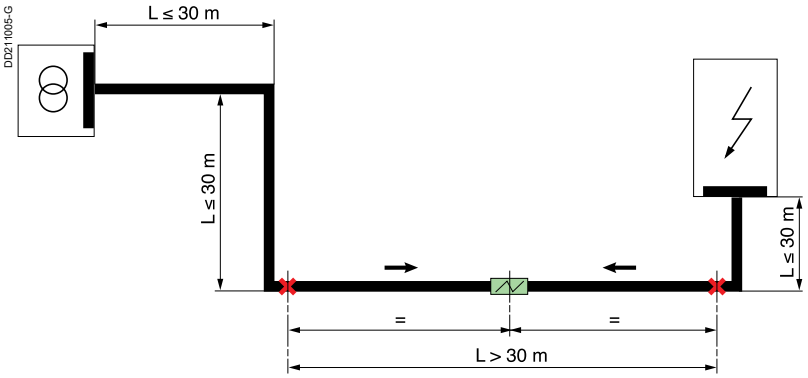


■ 61 to 120 metres:



Blocked fixing supports
Expansion section
Direction of expansion
Tap-off unit

Transformer / switchboard links



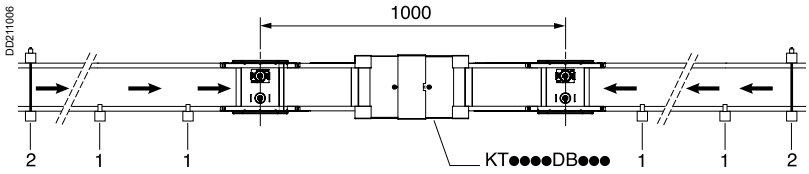
Blocked fixing supports
Expansion section
Direction of expansion

Horizontal distribution
Checking and compensating for expansion

Canalis KTC

Rules for fixing busbar trunking to the supports

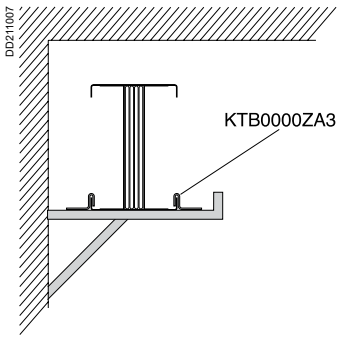
For correct system operation, the expansion of the part run in question must be directed towards the expansion section.
This implies:
- the busbar trunking must be free from all longitudinal movement on its supports
- the expansion section must be blocked on the opposite side to that by which it is pushed.



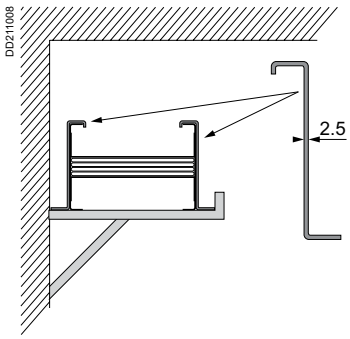
1 Free fixings
2 Blocked fixings
→ Direction of expansion

Installation of free fixings

Edgewise assembly

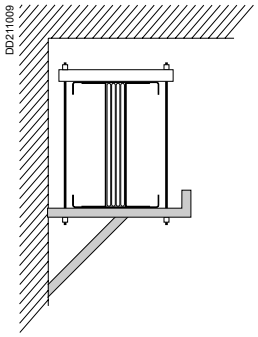


Flat assembly

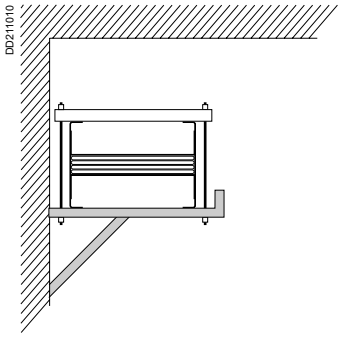


Installation of blocked fixings

Edgewise assembly

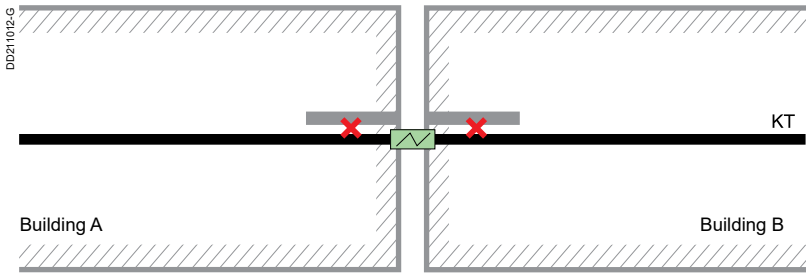


Flat assembly

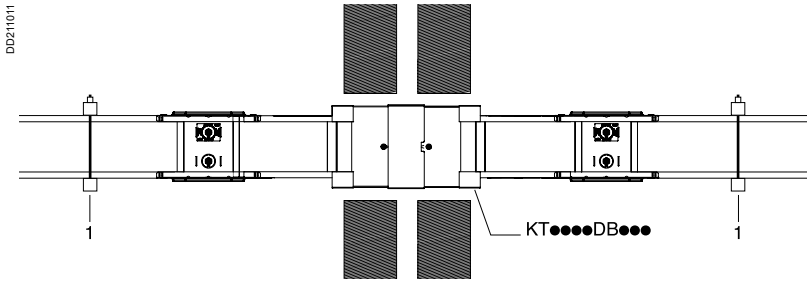


Passing through a joint between 2 buildings

Here, the expansion section allows the busbar trunking to absorb the forces due to the relative movement between the 2 buildings.



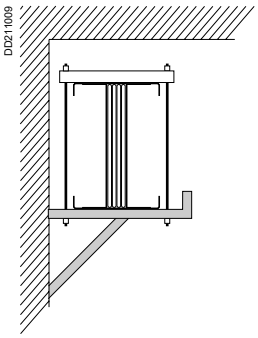
✖ Blocked fixing supports



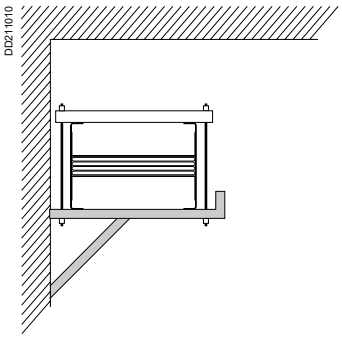
1 Blocked fixings

Installation of blocked fixings

Edgewise assembly

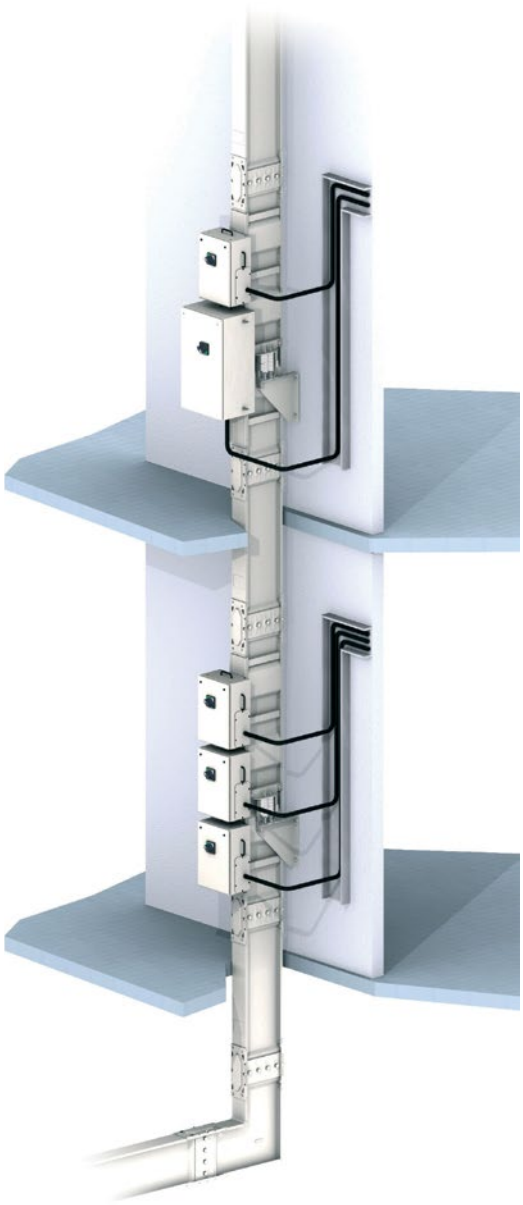


Flat assembly



Canalis KTC

PD202319_r



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.

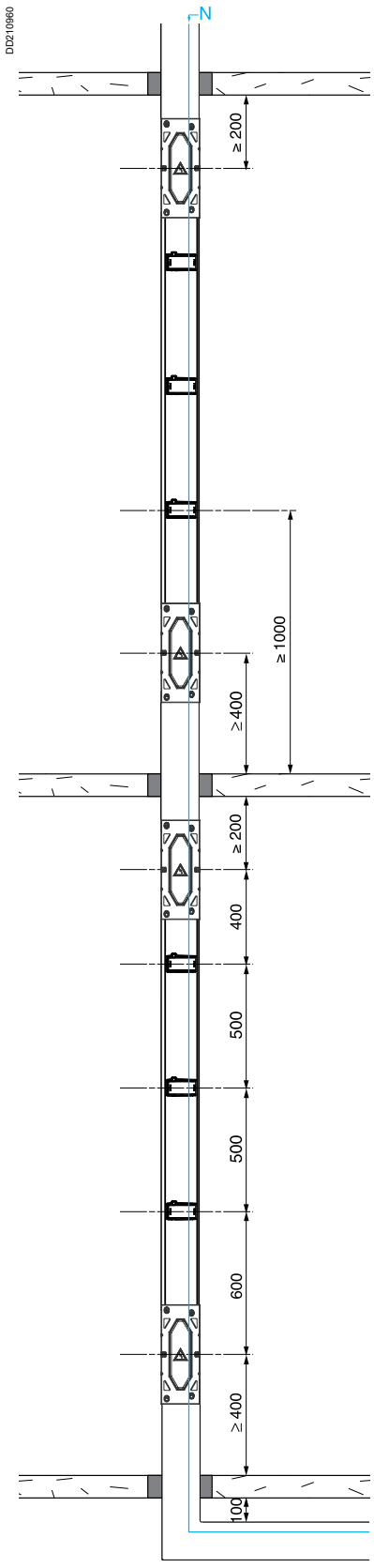
3 Busbar trunking supports

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 busbar trunking without external fire barrier



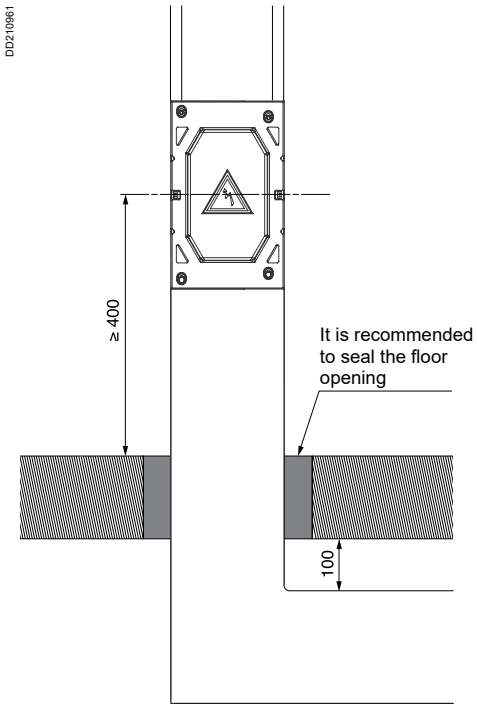
Positioning the neutral

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.

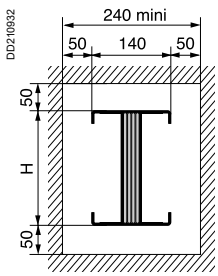
We recommend you provide for a distance of:
- 400 mm between the floor slab and the joint block axis to be able to install a support to the wall or wall bracket to facilitate the re-filling of the hole and to cope with possible building faults (e.g. screed not indicated on the drawings). Provide 500 mm for a floor fixing.
- 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.



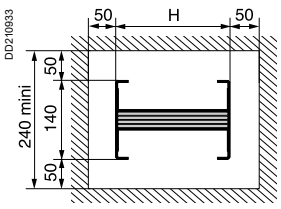
Positioning the tap-offs

The run sections are fitted with 3 tap-off points. Spaced at 500 mm intervals, they provide a high density of tap-offs per floor.

Edgewise passage through partition wall



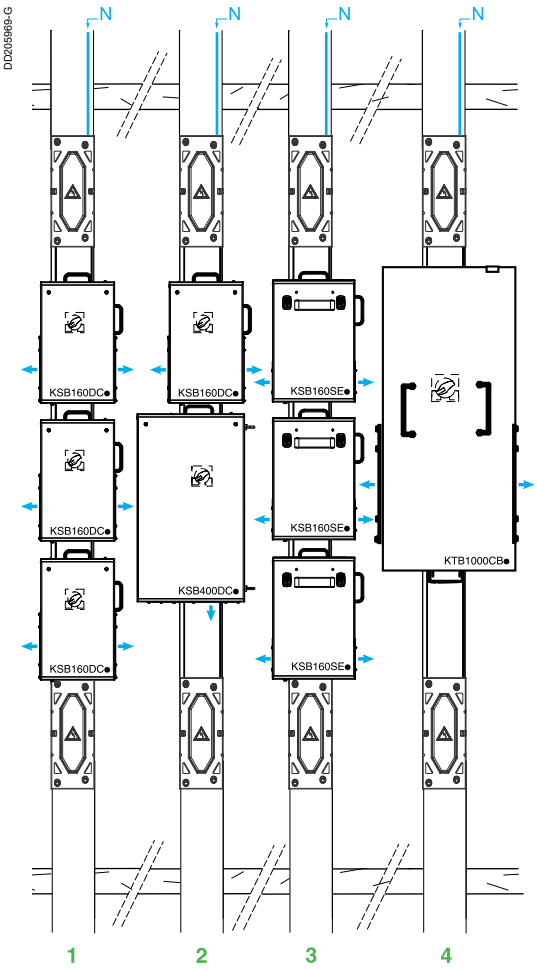
Flat passage through partition wall



Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000
Height H (mm)	74	104	124	164	204	244	324	404

Rising mains
Positioning the tap-off units

Canalis KTC



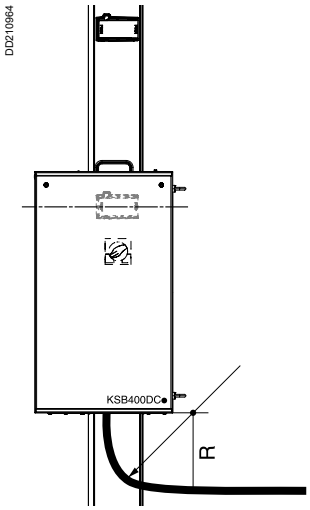
Cable exit.

Positioning the tap-off units on the busbar trunking

Several configurations are possible.
Some examples:
1 - 3 x 160 A circuit breaker tap-off units
2 - 1 x 400 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit
3 - 3 x 160 A fuse tap-off units
4 - 1 x 800 to 1000 A bolted tap-off unit.

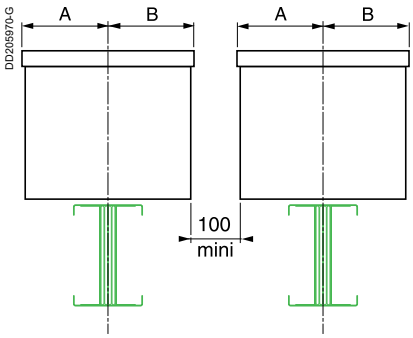
Cable exit

R = 12 x Ø of cable



Recommendations for installing 2 rising mains in parallel

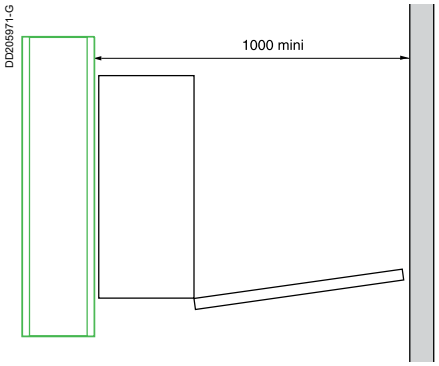
For an installation with tap-off units, provide for a between centres distance that takes into account the minimum dimension of 100 mm and the dimensions A and B of the tap-off units.

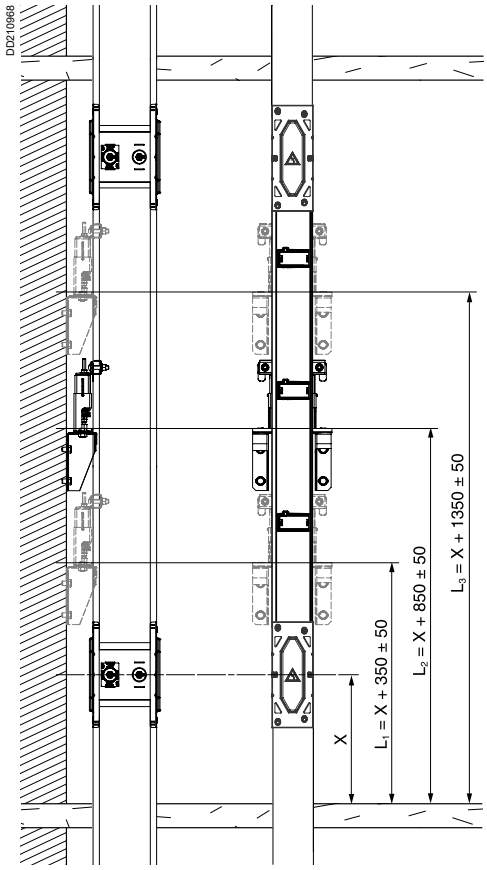


Type	Cat. no	Dimensions (mm)	
		A	B
Circuit breaker tap-off units	KSB160DC●	160	150
	KSB250DC●	240	160
	KSB400DC●	240	160
	KTB0630CB●	175	175
	KTB1000CB●	275	275
	KTB0630DC●	275	275
Fuse tap-off units	KSB160SE●	150	150
	KSB250SE●	250	160
	KSB400SE●	440	160
	KTB0630SD●	275	275

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.



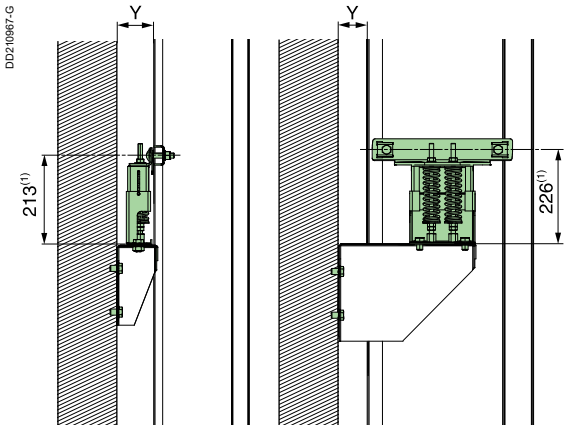


X ≥ 400.

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.

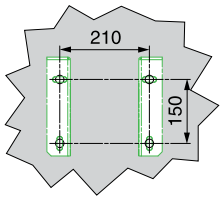
2 fixing systems are available:
- a rear wall fixing system for 800 A to 1600 A busbar trunking
- a side wall fixing system for 2000 A to 4000 A busbar trunking.

Wall support



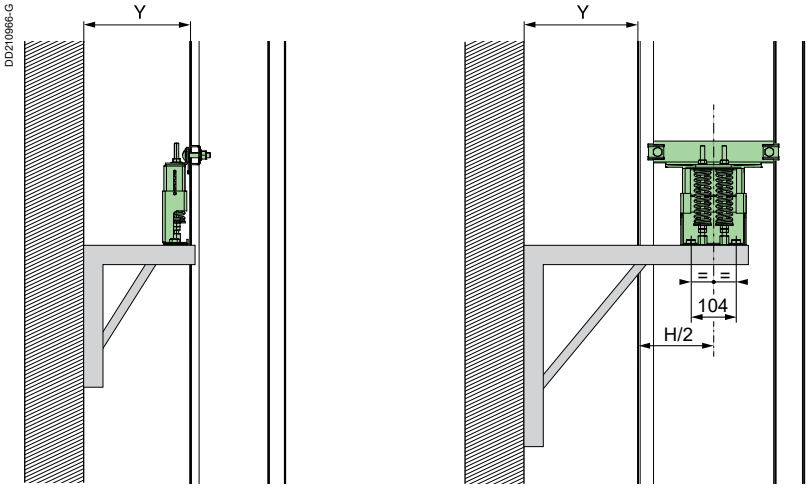
1000 to 2000 A 2500 to 5000 A

Wall drilling drawing to fix the support.



(1) Dimensions with free springs.
Y: 50 mm minimum to 100 mm maximum

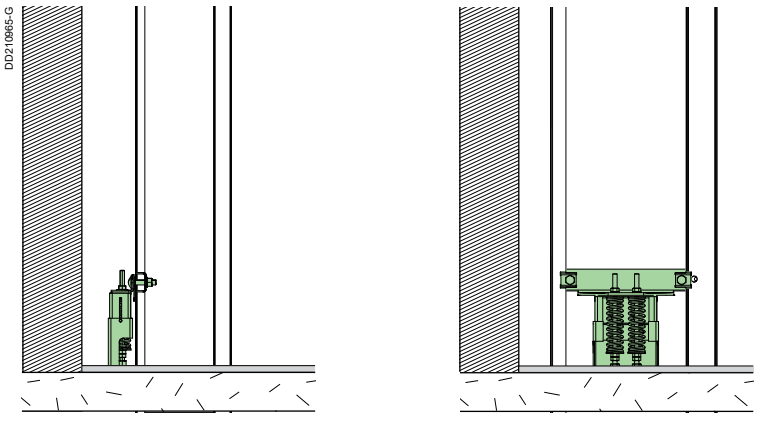
Wall bracket support (if Y > 100 mm)



1000 to 2000 A 2500 to 5000 A

Rating (A)	2500	3200	4000	5000
Height H (mm)	204	244	324	404

Floor support



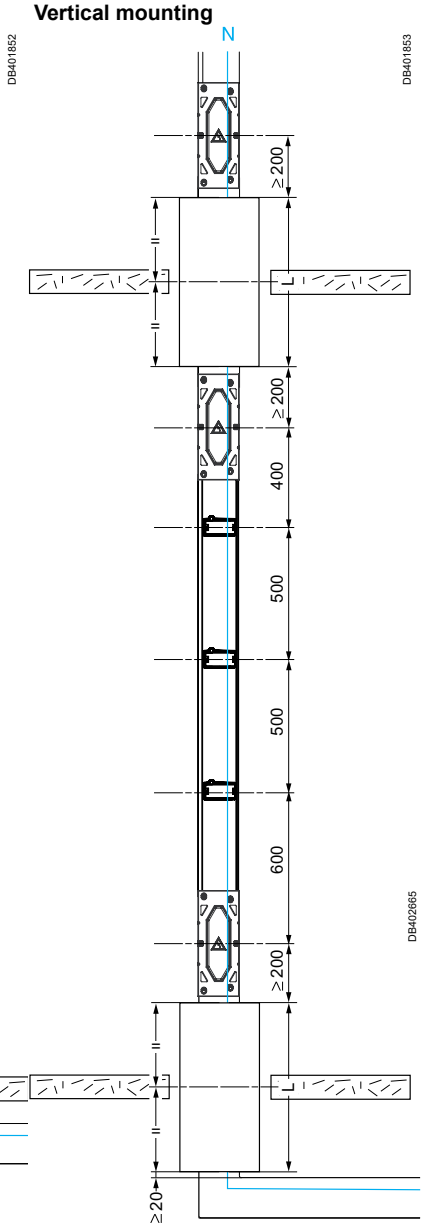
1000 to 2000 A 2500 to 5000 A

Rising mains
Positioning the external fire barriers

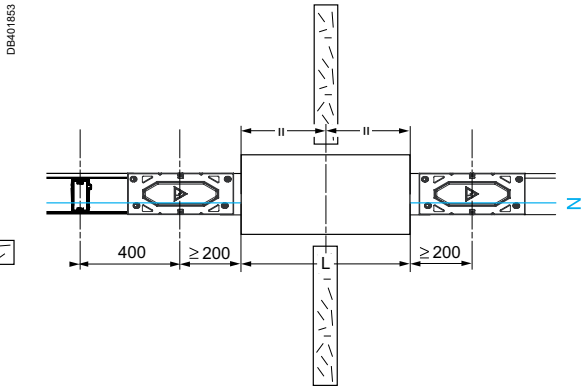
Canalis KTC

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.

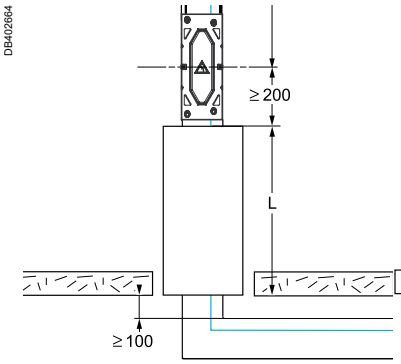
Vertical mounting

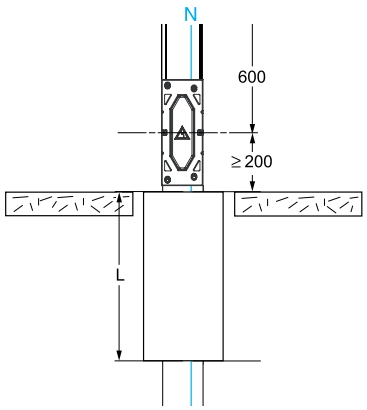


Horizontal mounting

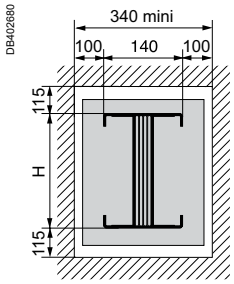


Rating	L
KTC1000	650
KTC1250	650
KTC1600	650
KTC2000	750
KTC2500	750
KTC3200	750
KTC4000	950
KTC5000	950
KTC6300	750

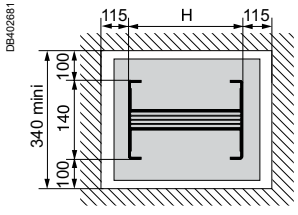




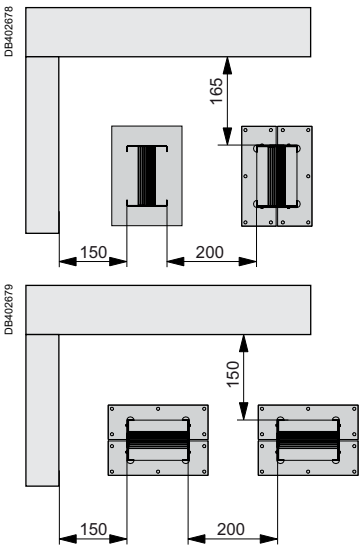
Edgewise passage through partition wall



Flat passage through partition wall



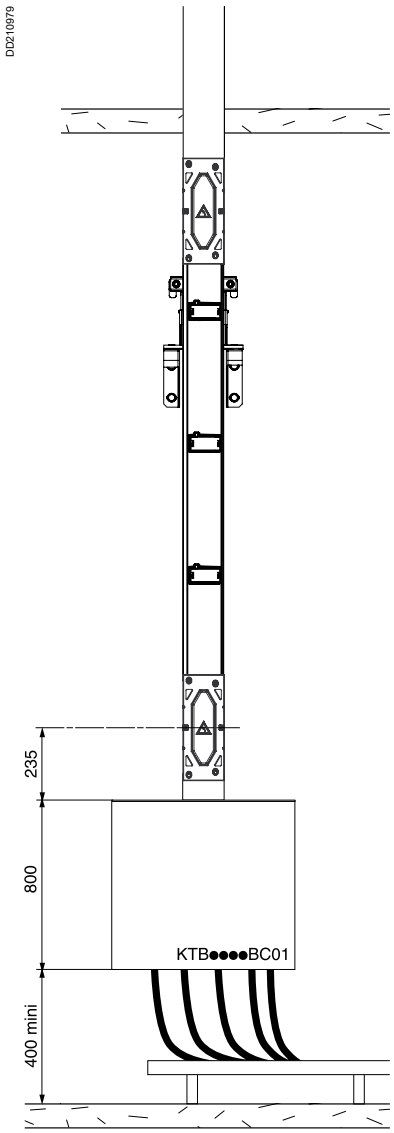
Distances to comply



Installation with feed via a cable box or direct onto the switchboard

2 possibilities:
- installation with feed direct to the switchboard
- installation with feed via a cable box.

Installation with feed via a cable box

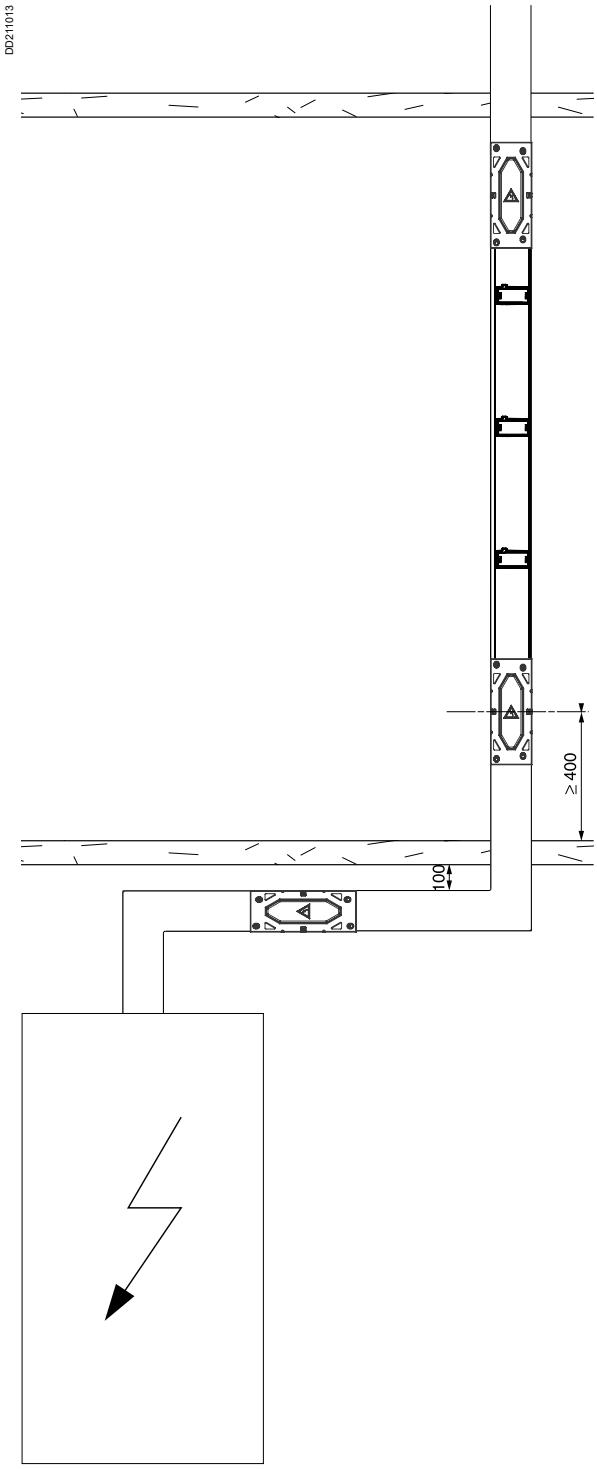


Rising mains

Installation with feed via a cable box or direct onto the switchboard

Canalis KTC

Installation with feed direct to the switchboard



Panorama of connection solutions

Canalis KTC

The Schneider Electric system

The comprehensive Schneider Electric system makes it simple to design a complete transformer/Canalis KT/switchboard installation.
Using dedicated interfaces, the trunking connects directly to the dry-type transformer and the switchboard for:
- tested and standardised connections
- fast and flexible installation
- shorter lead times.

Advantages
- No design work for the connections.
- Simplified layout design:
  - pre-defined position of the jointing unit
  - simplified routing (only three dimensions required)
  - smaller size (no additional covers required).
- Transformer and switchboard supplied with connections already mounted.
- Short lead times and fewer catalogue numbers for connections.
- Adaptable on the worksite:
  - transformer end: ± 15 mm adjustments along all three axes
  - switchboard end: phases can be inverted.
- Continuity of service:
  - transformer can be replaced in less than one hour
  - transformer, trunking and switchboard designed to be used together.
- Safety:
  - trunking fully tested in compliance with IEC 61439-1 and 61439-6
  - compliance with standards and installation rules
  - excellent fire-withstand capability.
- Comfort:
  - low level of electromagnetic radiation
  - no noise.

Compatibility between Trihal transformers/Canalis KT/PrismaSeT or Okken switchboards (1)

Trihal transformers					PrismaSeT or Okken switchboards							
Rating	Naturally ventilated (AN) dry-type transformers le max.	Forced ventilated (AF) dry-type transformers, 25 % overload accepted le max.	Interfaces		NS-MTZ1/NT-MTZ2/NW circuit breakers				NS-MTZ2/NW circuit breakers			MTZ2/NW circuit breakers
					800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
					08/16				20/25		32	40
				Junctions	H164				H244		H404	H404
630 kVA	887 A	1109 A	n°1	H124	KTC1000, KTC1350, KTC1600	KTC1000, KTC1350, KTC1600	KTC1000, KTC1350, KTC1600	KTC1000, KTC1350, KTC1600	-	-	-	-
800 kVA	1126 A	1408 A	n°2	H164	KTC1350, KTC1600, KTC2000	KTC1350, KTC1600, KTC2000	KTC1350, KTC1600, KTC2000	KTC1350, KTC1600, KTC2000	KTC2000	KTC2000	-	-
1000 kVA	1408 A	1760 A	n°3	H204	KTC1600, KTC2000	KTC1600, KTC2000	KTC1600, KTC2000	KTC1600, KTC2000	KTC2000, KTC2500	KTC2000, KTC2500	-	-
1250 kVA	1760 A	2200 A	n°4	H244	-	-	-	-	KTC2000, KTC2500, KTC3200	KTC2000, KTC2500, KTC3200	-	-
1600 kVA	2253 A	2816 A	n°5	H324					KTC2500, KTC3200	KTC2500, KTC3200	KTC3200, KTC4000	KTC3200, KTC4000
2000 kVA	2813 A	3516 A	n°6	H404	-	-	-	-	-	-	KTC3200, KTC4000, KTC5000	KTC3200, KTC4000, KTC5000
2500 kVA	3520 A	4400 A	n°7	H404	-	-	-	-	-	-	KTC4000, KTC5000	KTC4000, KTC5000

(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 a dry-type transformer using a dedicated interface, see page 224.

Connection to an LV switchboard using a dedicated interface, see page 210.



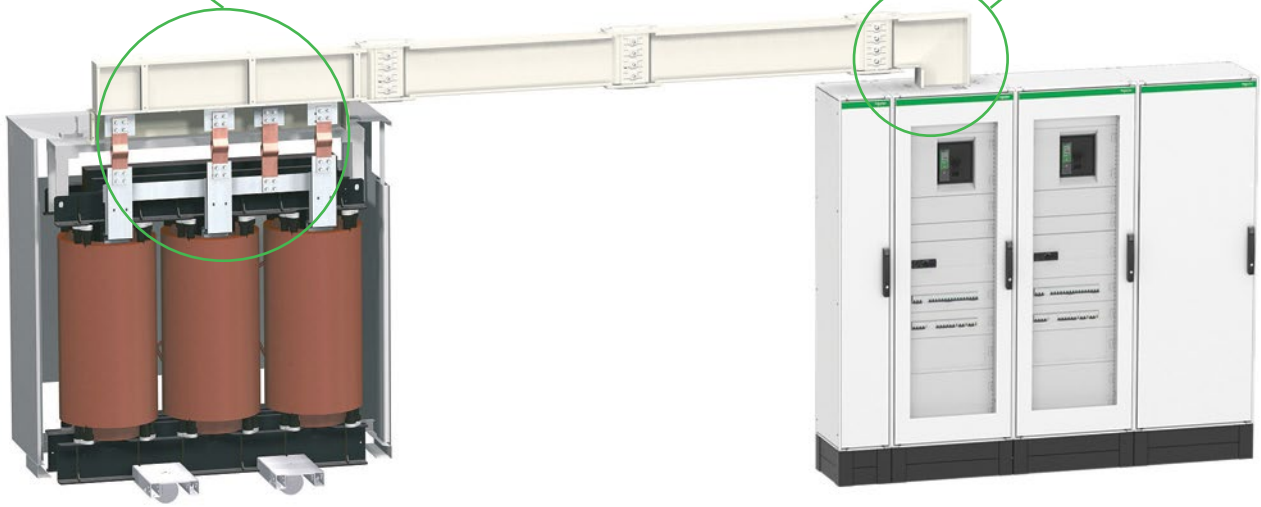
PB125377

Panorama of connection solutions

Connection to a dry-type transformer using a dedicated interface, see page 227.

Connection to an LV switchboard using a dedicated interface, see page 210.

PB125378



Universal connection to an oil-filled transformer, see page 236.

Universal connection to an LV switchboard, see page 216.

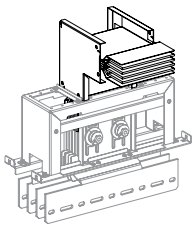
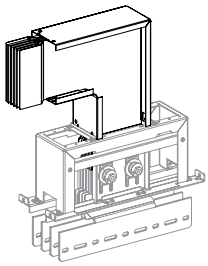
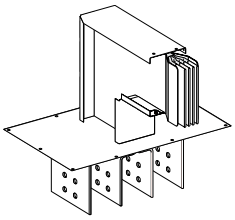
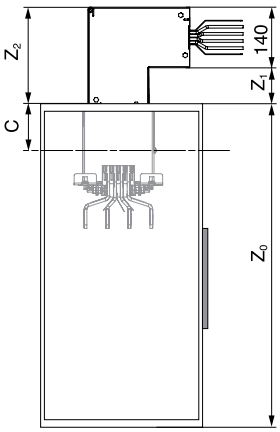
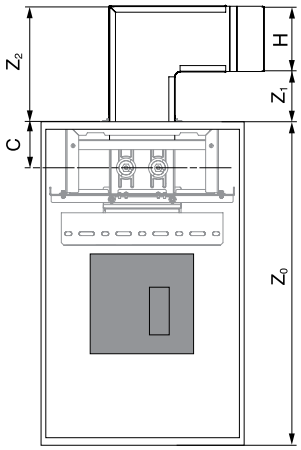
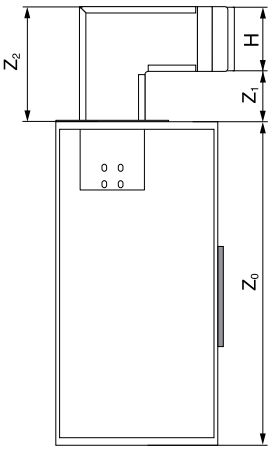
DB411147



Connection to LV switchboards
Selection guide

Canalis KTC

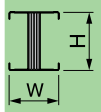
This guide may be used to:
- select the connection best suited to your installation (incoming direction, trunking installed flat or edgewise, different phase order)
- check the total height of the connection with respect to the ceiling, i.e. dimension Z0 + Z2 (100 mm minimum clearance required between 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.

Type of connection	Connection with an interface		Direct connection
			Without protective covers
	SB1	SB2	SB3
DB411148	DD21v0753	DD210754	DD210755
			
			
Z_0	see page 210	see page 210	As per manufacturing drawings
Z_1 minimum	74	82	138
maximum	-	-	472
Z_2	Z_1 + 140	Z_1 + H	Z_1 + H
Phase order can be changed	■	■	
Mounting in workshop	■	■	
Exit through front or rear	■		■
Exit through left or right side		■	
Edgewise installation		■	■
Flat installation	■		

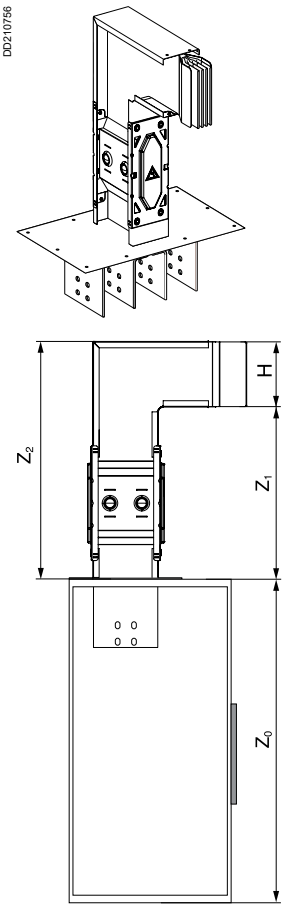
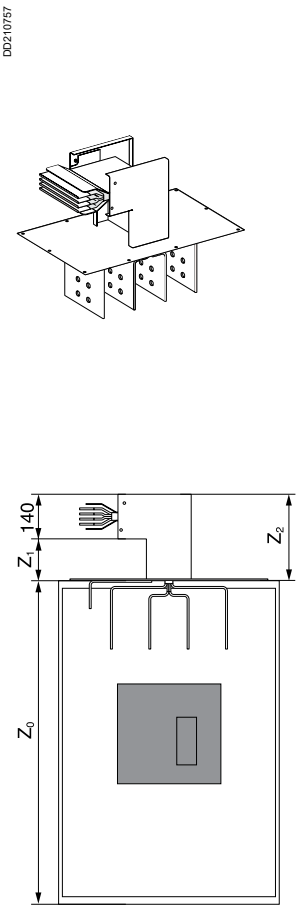
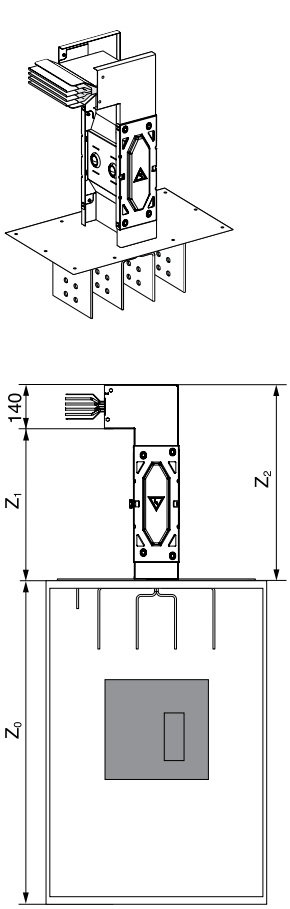
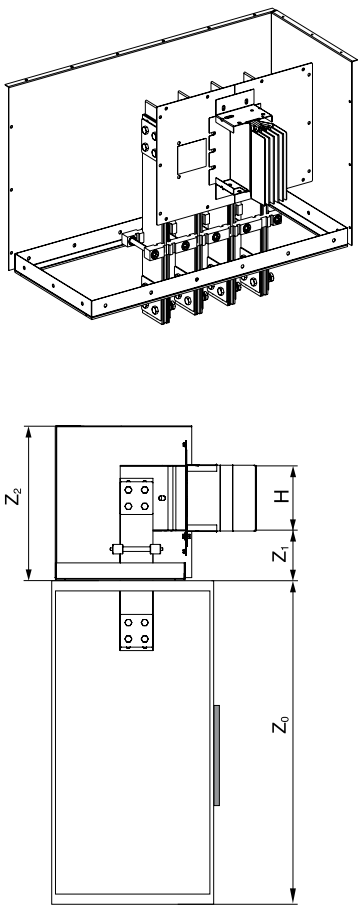
Trunking cross-section

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm) Width W (mm)	74 140	104 140	124 140	164 140	204 140	244 140	324 140	404 140	244 130 244 140

DD210867



DB411584

	SB4	SB5	SB6	With protective covers SB7	
	DD210756	DD210757	DD210758	DD210759	
					
	As per manufacturing drawings	As per manufacturing drawings	As per manufacturing drawings	As per manufacturing drawings	
	473	130	465	H = 74 to 124 mm	195 - H/2
				H = 164 to 244 mm	255 - H/2
				H = 324 to 404 mm	355 - H/2
	-	464	-	-	
	Z_1 + H	Z_1 + 140	Z_1 + 140	H = 74 or 104 or 124 mm	Z_1 + H/2 + 115
				H = 164 or 204 or 244 mm	Z_1 + H/2 + 175
				H = 324 or 404 mm	Z_1 + H/2 + 255
	■		■		
	■			■	
		■	■		
	■			■	
		■	■		

Connection to LV switchboards
By Canalis interface

Canalis KTC


PD202350

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 6300 A.

Type of switchboard	Rating of trunking (A)	Type of circuit breaker	Type of connection
Prisma**SeT**	800 to 1600	Compact NS	Top direct and rear
		Masterpact MTZ1/NT	Top direct and rear
	800 to 3200	Masterpact MTZ2/NW	Top direct and rear
	4000	Masterpact MTZ2/NW	Rear
Okken	800 to 4000	Masterpact MTZ2/NW	Top direct and rear
	6300	Masterpact MTZ3/ NW40b-50	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 tightening torque.

Compatibility between Canalis KT and the interface in the switchboard(1)(2)

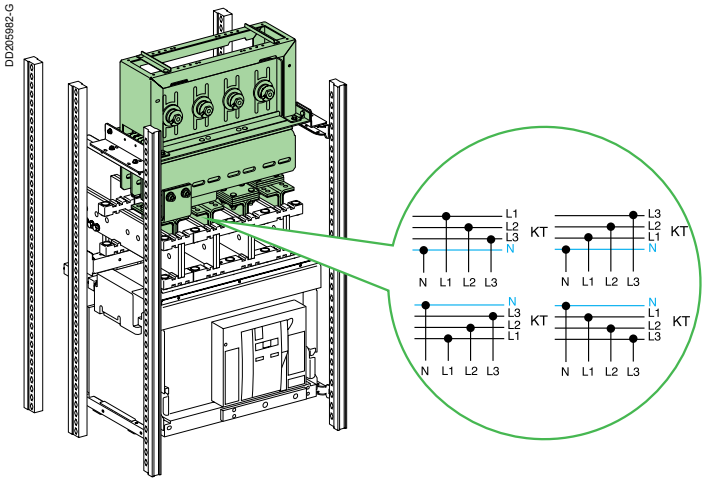
Canalis KT				Circuit breakers in Okken and PrismaSeT switchboards							
				NS - MTZ1/NT - MTZ2/NW			NS - MTZ2/NW			MTZ2/NW	MTZ3/NW
Cat. no.	Rating (A)	Height (mm)	Sealing kit	800 and 1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	5000 A
				Interface 08/16			Interface 20/25		Interface 32	Interface 40	Interface 40b-63
				H164(3)			H244(3)		H404(3)	H404(3)	H622(3)(4)
KTC1000	1000	74	KTB0074TT01								
KTC1350	1350	104	KTB0104TT01								
KTC1600	1600	124	KTB0124TT01								
KTC2000	2000	164	KTB0164TT01								
KTC2500	2500	204	KTB0204TT01								
KTC3200	3200	244	KTB0244TT01								
KTC4000	4000	324	KTB0324TT01								
KTC5000	5000	404	KTB0404TT01								
KTC6300	5000	622	KTB0622TT01								

(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, see page 224.
(3) Height of the jointing unit in millimetres.
(4) Connection only to Okken interface.

The prefabricated connections installed in the switchboard are designed to operate without derating and can therefore operate at the rated circuit-breaker current.

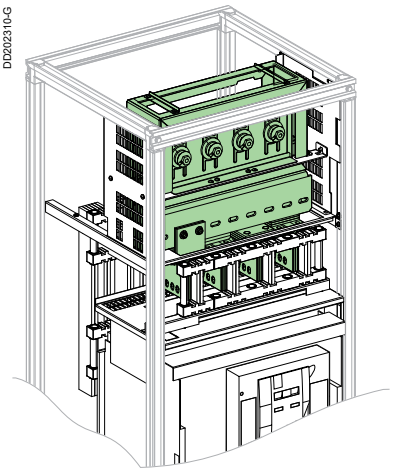
Phase order

Using the dedicated interface, it is possible to change the phase order if it is different between the trunking and the switchboard.



Top direct connection (TDC)

DD202310-G



To 800 to 4000 A Masterpact MTZ2/NW circuit breakers

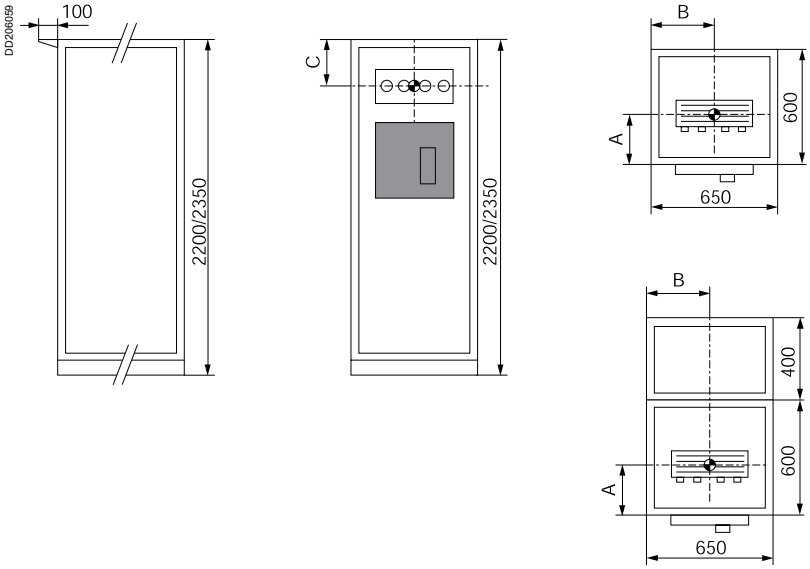
■ Enclosure 600 or 1000 mm deep, access through the front.

Position of the jointing unit

Circuit breaker		Dimensions (mm)		
		A	B	C
Drawout, 3P/4P (1)	MTZ2/NW 08/16	175	325	156
	MTZ2/NW 20/25	175	325	156
	MTZ2/NW 32	175	325	156
	MTZ2/NW 40	175	325	156

(1) To order, see "Catalogue numbers", page 77.

DD206059

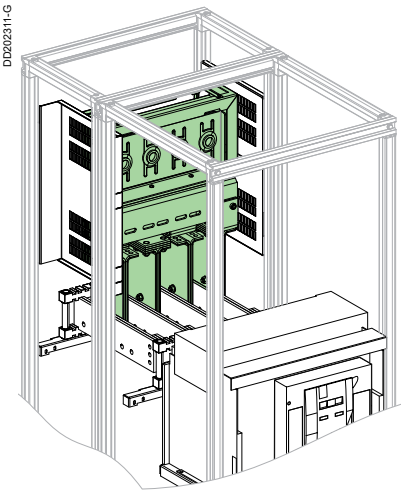


Reference point

Connection to LV switchboards
By Canalis interface
Connection to Okken switchboards

Canalis KTC

Rear connection (RC)

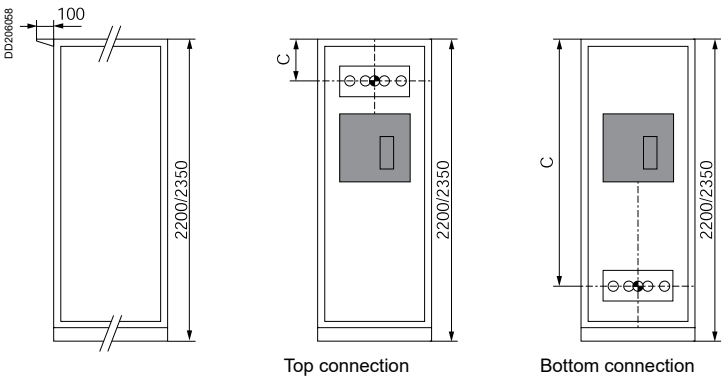


To 800 to 6300 A Masterpact MTZ2/NW circuit breakers
■ Enclosure 1000, 1200 or 1400 mm deep, access through the rear.

Position of the jointing unit

Circuit breaker		Dimensions (mm)						
		A			B		C	
		Depth (mm)			Width (mm)		Height (mm)	
		1000	1200	1400	650	1150	2350	2200
Drawout, 3P/4P(1), top position	MTZ2/NW 08/16	825	-	-	363	-	317	-
	MTZ2/NW 20/25	825	-	-	363	-	317	-
	MTZ2/NW 32	825	-	-	363	-	317	-
	MTZ2 (3/4P)/ NW40 (3P)	-	953	1196	363	-	156	-
	NW40 (4P)	-	953	1196	363	-	381	-
	MTZ3 NW40b	800 (SHBB only)	1033	1200	-	575	174	-
	MTZ3 NW50	800 (SHBB only)	1033	1200	-	575	174	-
	MTZ3 NW63	800 (SHBB only)	1033	1200	-	575	174	174
	115-3 NW40	-	953	1196	363	-	156	-
	115-4 NW40	-	953	1196	363	-	381	-
Drawout, 3P/4P(1), medium position	MTZ2/NW 08/16	825		-	363	-	942	-
	MTZ2/NW 20/25	825		-	363	-	942	-
	MTZ2/NW 32	825		-	363	-	942	-
	MTZ2 (3/4P)/ NW40 (3P)	-	953	1196	363	-	881	-
	NW40 (4P)	-	953	1196	363	-	1008	-
	115-3 NW40	-	953	1196	363	-	881	-
	115-4 NW40	-	953	1196	363	-	1006	-
Drawout, 3P/4P(1), bottom position	MTZ2/NW 08/16	-	-	1225	363	-	1417	-
	MTZ2/NW 20/25	-	-	1225	363	-	1417	-
	MTZ2/NW 32	-	-	1225	363	-	1417	-
	MTZ3 NW40b	800	964	1200	-	575	2065	1913
	MTZ3 NW50	800	964	1200	-	575	2065	1913
	MTZ3 NW63	800	964	1200	-	575	2068	1915

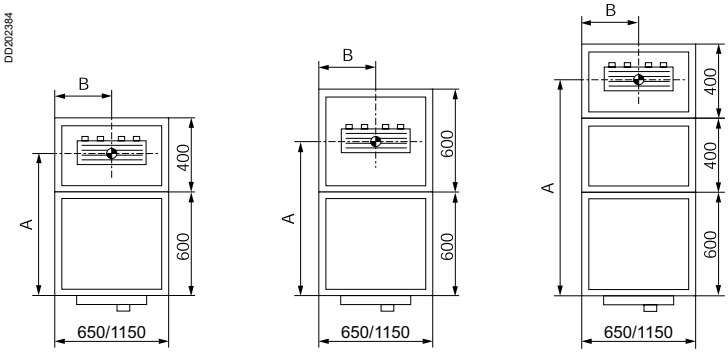
(1) To order, see "Catalogue numbers", page 77.



Top views
Depth: 1000 mm

Top connection
Depth: 1200 mm

Bottom connection
Depth: 1400 mm



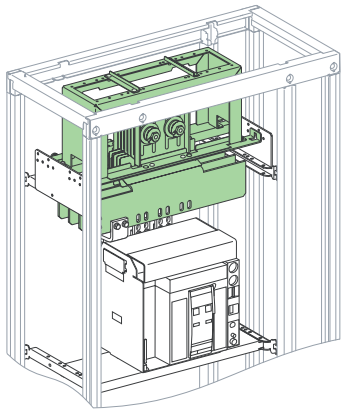
Reference point

Bottom connection

For installations with connections through the bottom, please consult us.

Top direct connection (TDC)

DD202306-G



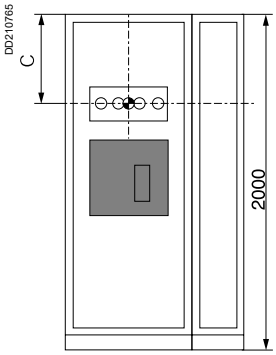
To a Compact NS1250 or Masterpact MTZ1/NT 1600 circuit breaker
■ Enclosure 400 mm deep, access through the front.

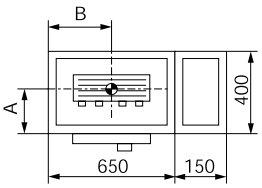
Position of the jointing unit

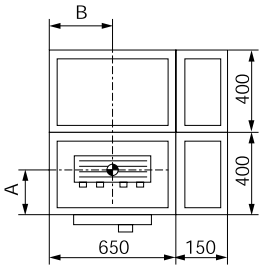
Circuit breaker		Dimensions(1) (mm)		
		A	B	C
Fixed, 3P/4P(2)	NS800/1250	260	325	173
	MTZ1/NT 06/16	260	325	173
Drawout, 3P/4P(2)	NS800/1250 or 06/MTZ1/NT 16	260	325	198

(1) Dimensions measured from switchboard framework.
(2) To order, see "Catalogue numbers", page 75.

DD210765

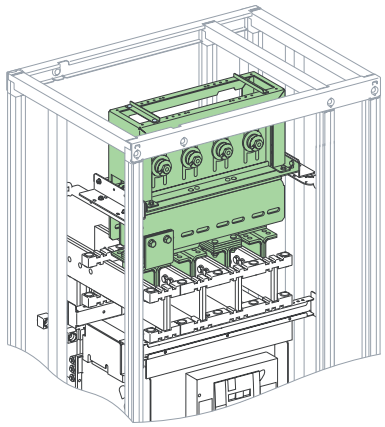






Reference point

DD202304-G



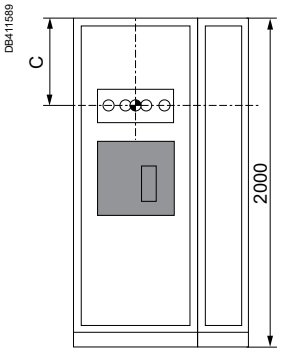
To 800 to 6300 A Masterpact MTZ2/MTZ3/NW circuit breakers
■ Enclosure 600 mm deep, access through the front.

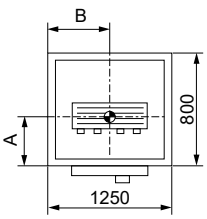
Position of the jointing unit

Circuit breaker		Dimensions(1) (mm)		
		A	B	C
Fixed, 3P/4P(2)	MTZ2/NW 08/16	185	325	254
	MTZ2/NW 20/25	185	325	304
	MTZ2/NW 32	185	325	279
Drawout, 3P/4P(2)	MTZ2/NW 08/16	185	343	179
	MTZ2/NW 20/25	185	343	196
	MTZ2/NW 32	185	343	214
	MTZ3/NW40b-63 A	555	600	174

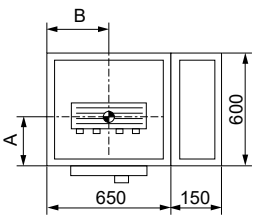
(1) Dimensions measured from switchboard framework.
(2) To order, see "Catalogue numbers", page 74.

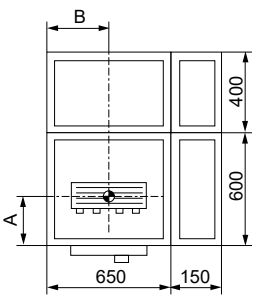
DB411589





For MTZ3/NW40b-63



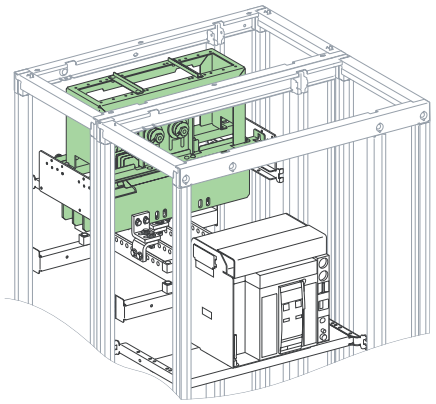


Reference point

Connection to LV switchboards
By Canalis interface
Connection to Prisma**SeT** switchboards
Canalis KTC

Rear connection (RC)

DD202307-G



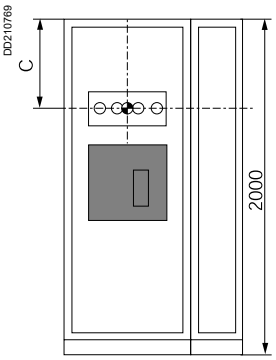
To a Compact NS1600 or Masterpact MTZ1/NT 1600 circuit breaker
■ Two enclosures combined:
□ 1 enclosure, 400 mm deep, for the circuit breaker
□ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

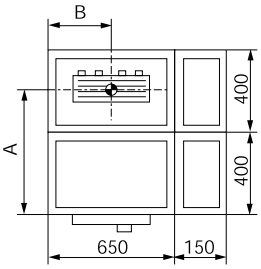
Position of the jointing unit

Circuit breaker		Dimensions (1) (mm)		
		A	B	C
Fixed, 3P/4P (2)	NS800/1600 or MTZ1/NT 06/16	638	325	219
Drawout, 3P/4P (2)	NS800/1600 or MTZ1/NT 06/16	638	325	269

(1) Dimensions measured from switchboard framework.
(2) To order, see "Catalogue numbers", page 75.

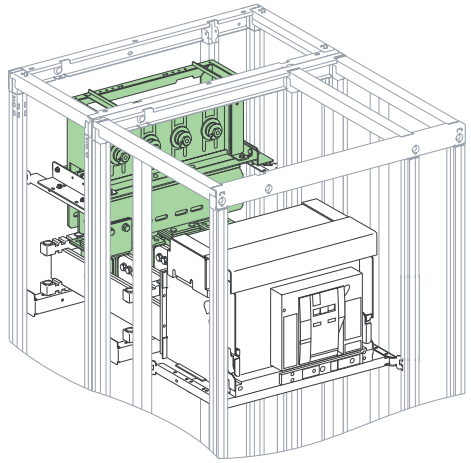
DD210769





Reference point

DD202305-G



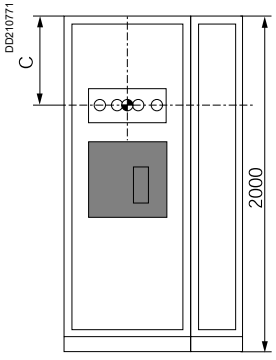
To 800 to 4000 A Masterpact MTZ2/NW circuit breakers
■ Two enclosures combined:
□ 1 enclosure, 600 mm deep, for the circuit breaker
□ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

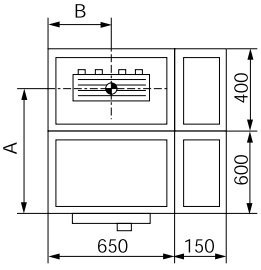
Position of the jointing unit

Disjoncteur		Dimensions (1) (en mm)		
		A	B	C
Fixed, 3P/4P (2)	MTZ2/NW 08/16	815	325	279
	MTZ2/NW 20/25	815	325	279
	MTZ2/NW 32	815	325	279
	MTZ2/NW 40	790	325	422
Drawout, 3P/4P (2)	MTZ2/NW 08/16	815	307	279
	MTZ2/NW 20/25	815	307	279
	MTZ2/NW 32	815	307	239
	MTZ2/NW 40	790	325	422

(1) Dimensions measured from switchboard framework.
(2) To order, see "Catalogue numbers", page 74.

DD210771

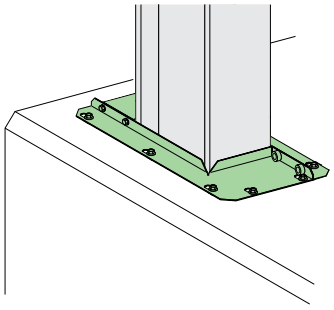




Reference point

Sealing kit

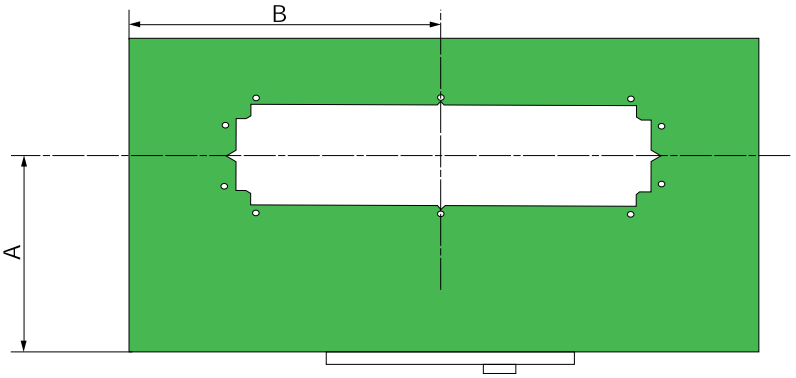
DD202314-G



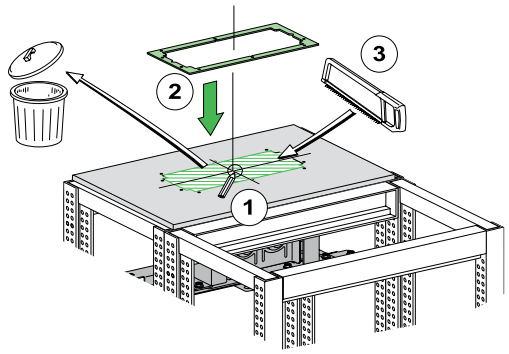
KTB0●●●●TT01

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.

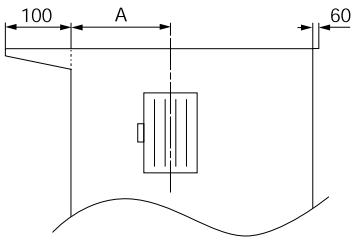
DD205984-G



DD205983-G



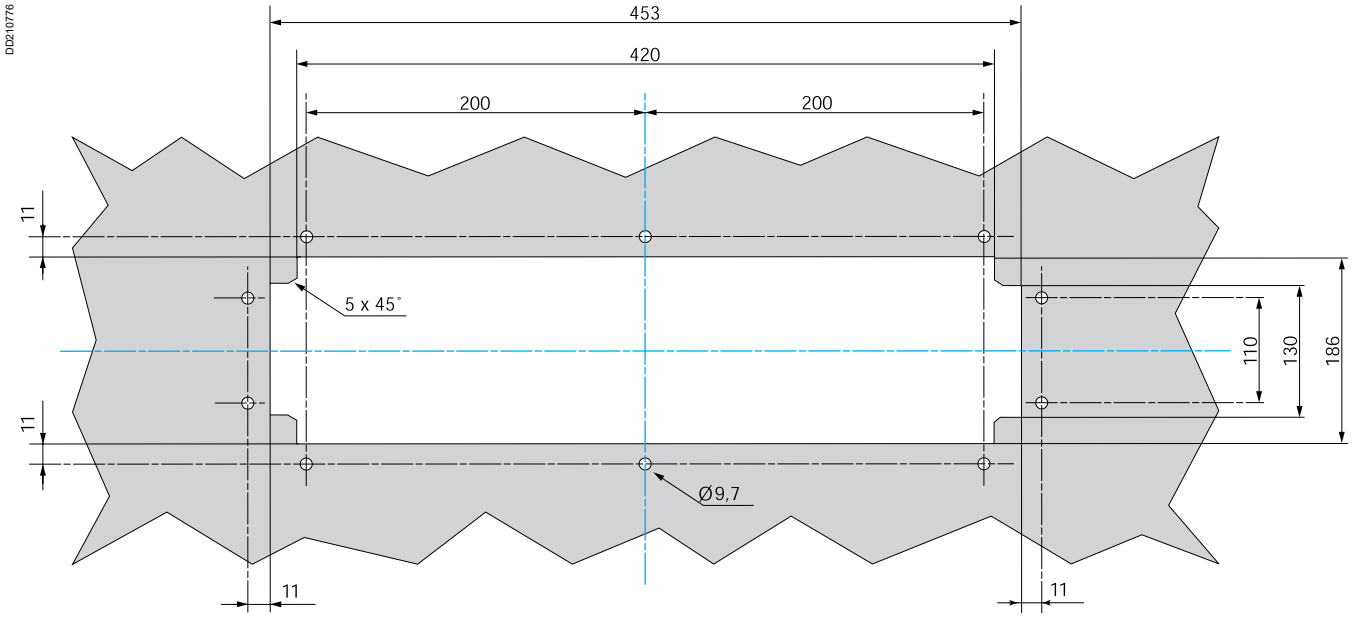
Okken



Cut-out drawing (for all the ratings)

It is advised to cut out the switchboard roof in the workshop.
Important: the dimensions are measured from switchboard framework.

DD210776



Centre lines.

Connection to LV switchboards
By universal feed unit

Canalis KTC

PD202351



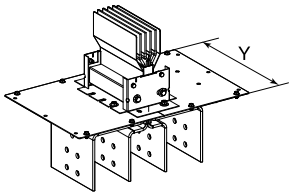
Canalis KT can be connected to switchboards via a universal connector. To simplify the work, it is advised to fit the switchboard busbars with a **distance between centres of 115 mm**.
Jointing with the switchboard is via a straight or elbow universal feed unit with a straight or flat outlet.
Connections 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

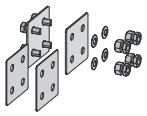
Rating of trunking (A)	Depth "Y" of flange feed unit plate (mm)	Minimum depth "X" of switchboard (mm)
1000 to 1600	230	400
2000 to 3200	350	400
4000 and 5000	510	600

Busbars in switchboard (recommended distance between centres = 115 mm)

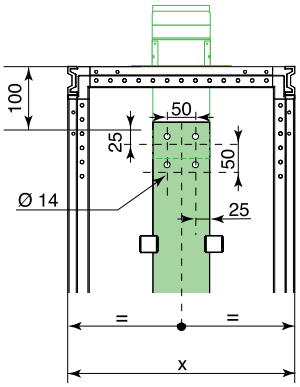
DD205986-G



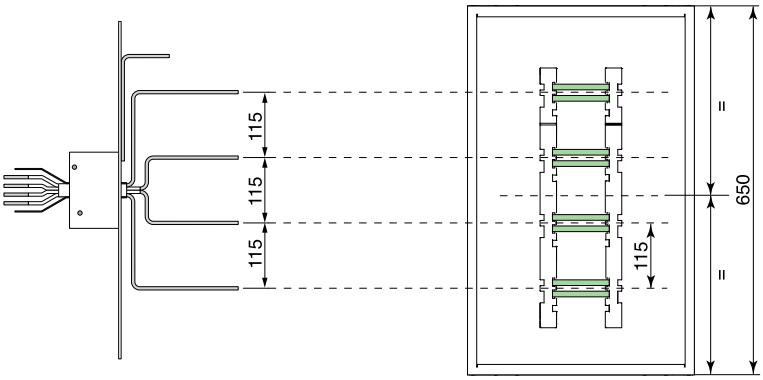
KTA●●●●ER●●



KTA0000YB2

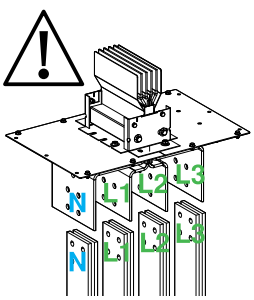


DD205987-G



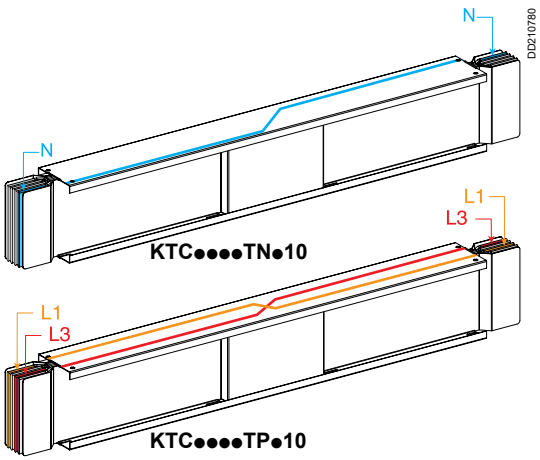
Phase order

DD205988-G



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", page 33 and "Catalogue numbers/Dimensions" section, page 56.

DD210780

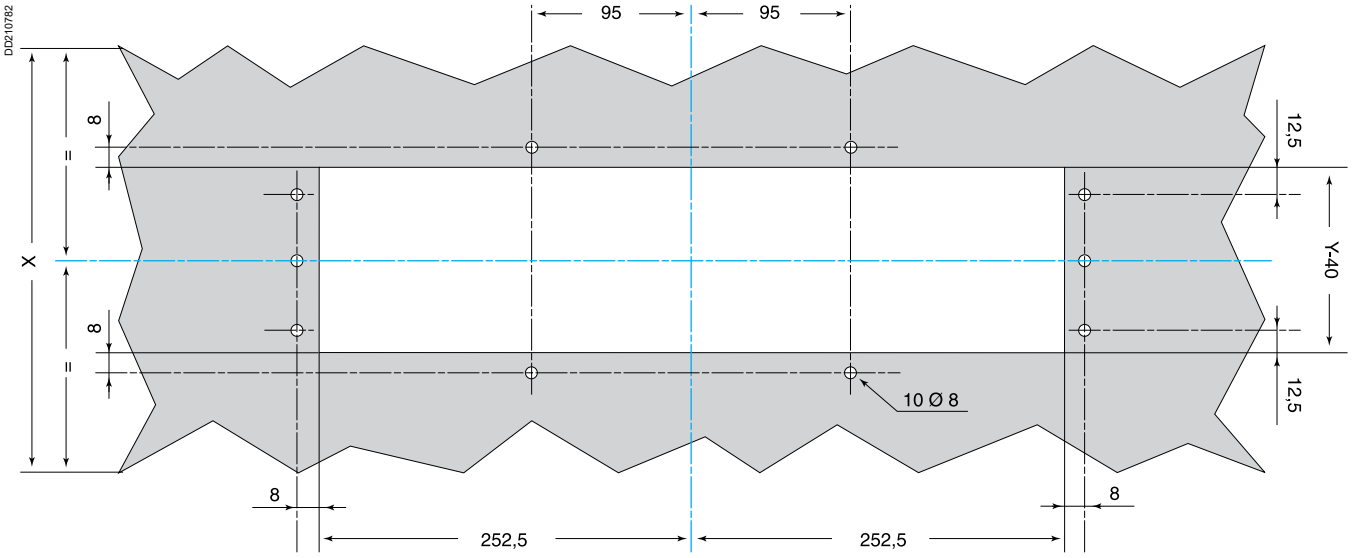


Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.

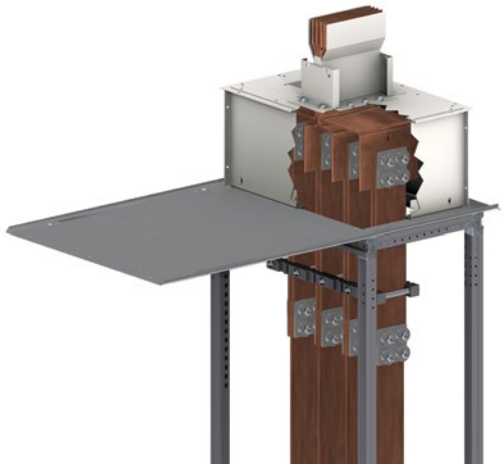
Cut-out for universal feeder unit, with distance between centres = 115 mm

Rating of trunking (A)	Depth "Y" of flange feed unit plate (mm)
1000 to 1600	230
2000 to 3200	350
4000 and 5000	510



Connection to LV switchboards
By feed and connection plates

Canalis KTC


PD202353

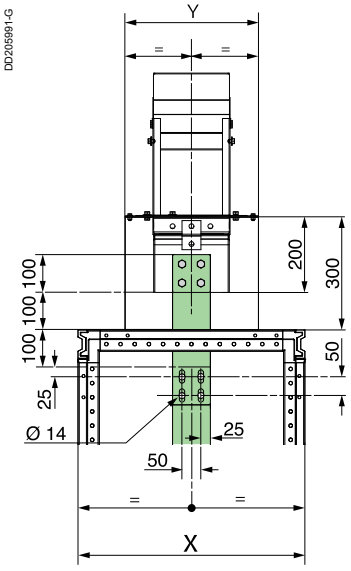
Universal feed unit (recommended distance between centres = 115 mm)

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**.

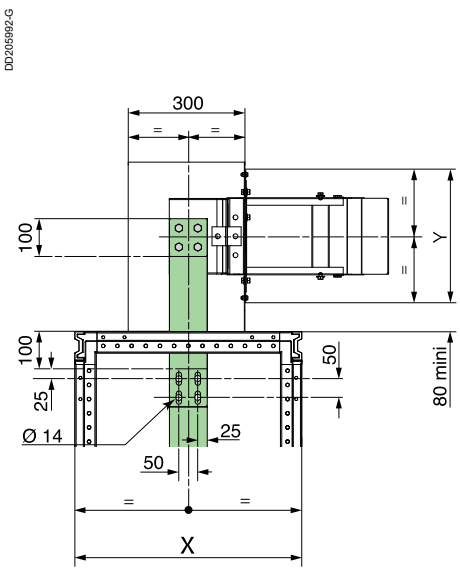
Enclosure depth depending on the rating of the trunking

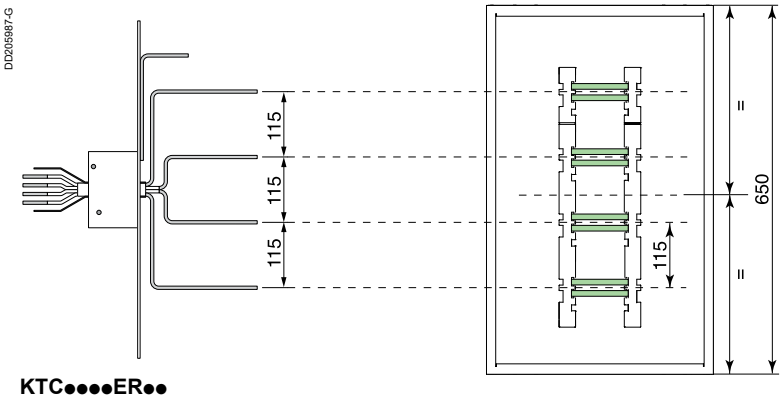
Rating of trunking (A)	Depth "Y" of flange feed unit plate (mm)	Minimum depth "X" of switchboard (mm)
1000 to 1600	230	400
2000 to 3200	350	400
4000 and 5000	510	600

Vertical incomer



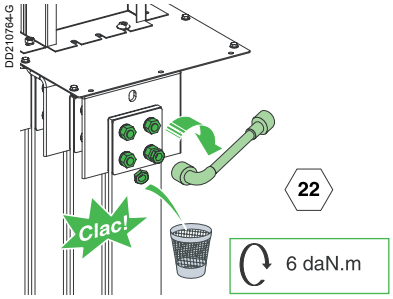
Horizontal incomer

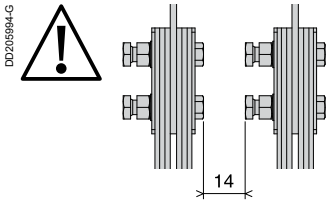




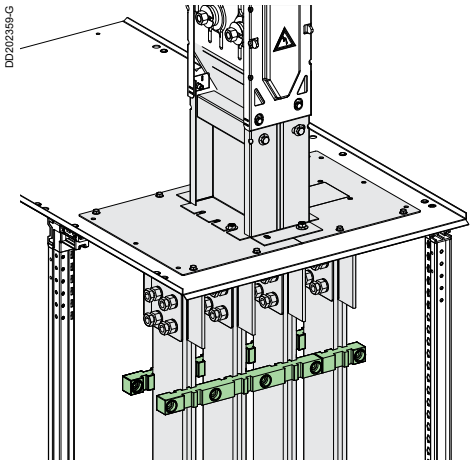
KTC●●●●ER●●

Selection of connection plates

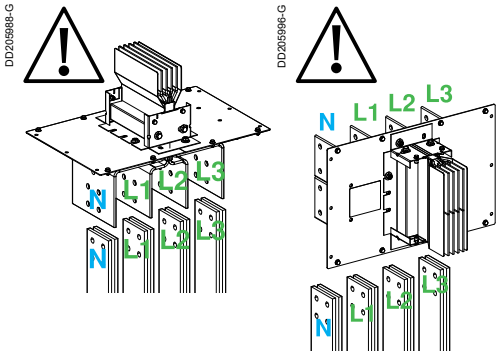




Short-circuit withstand

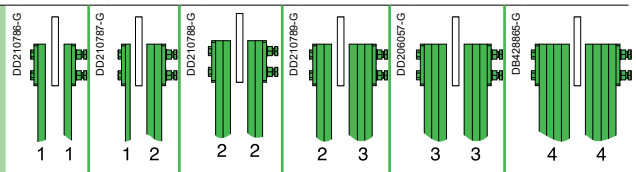


Phase order



The required number of connection plates is indicated in the table below.

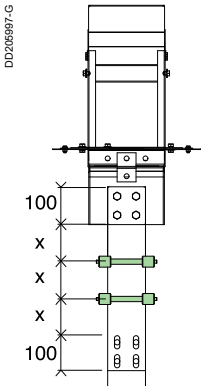
Busbar trunking rating (A)	Bare copper connection plates per phase	
	Number	Section (mm²)
1350	2 (100 x 5)	1000
1600	2 (100 x 5)	1000
2000	3 (100 x 5)	1500
2500	3 (100 x 5)	1500
3200	4 (100 x 5)	2000
4000	5 (100 x 5)	2500
5000	6 (100 x 5)	3000
6300	8 (120 x 5)	4800

Connection plates						
	DD210786-G 1 1	DD210787-G 1 2	DD210788-G 2 2	DD210789-G 2 3	DD206057-G 3 3	DB428865-G 4 4
Busbar trunking rating (A)	1350 to 1600	2000 to 2500	3200	4000	5000	6300

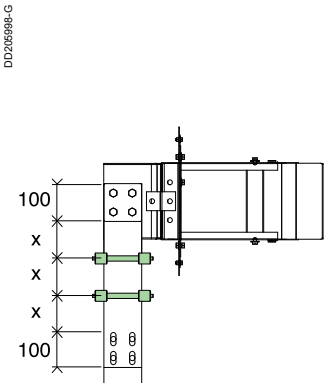
Short-circuit withstand table

Short-time withstand current (Icw)	Maximum distance between support centres X (mm)
⩽ 43 kA	400
43 kA ⩽ Icw ⩽ 50 kA	225
50 kA ⩽ Icw ⩽ 100 kA	150

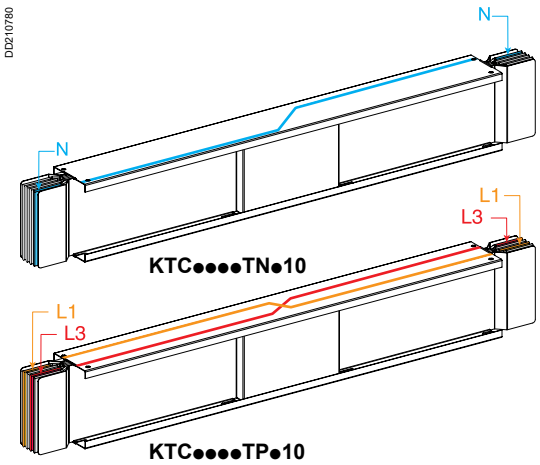
Vertical incomer



Horizontal incomer



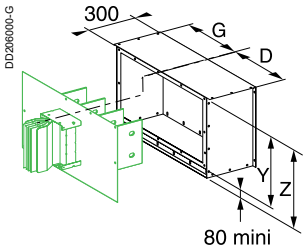
If the order of the phases in the trunking and the switchboard is different, it is advised to invert the phases in the switchboard. If that is not possible, use the phase and neutral crossover components.
For more information, see the "Description" section, page 33 and "Catalogue numbers/Dimensions" section, page 56.



Connection to LV switchboards
By feed and connection plates

Canalis KTC

Dimensions of protective covers



KTB●●●●CR1

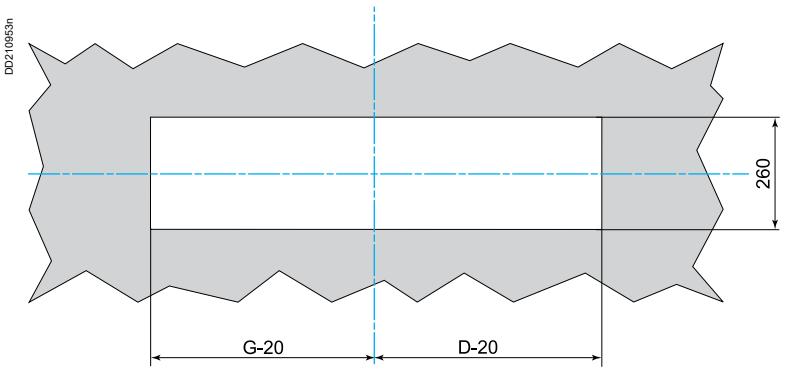
Horizontal incomer

Rigid horizontal cover KTB●●●●CR1 for ER straight outlet feed connectors type N1 to N6

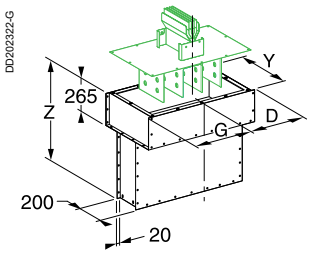
Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	310 to 800
2000 to 3200	350	220 to 475	220 to 475	430 to 800
4000 and 5000	510	220 to 475	220 to 475	590 to 800

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.



Centre lines.



KTB●●●●CR2

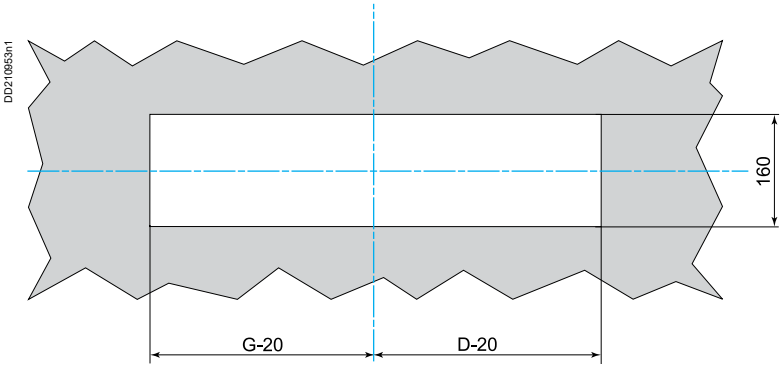
Vertical incomer

Rigid vertical cover KTB●●●●CR2 (400 to 800 mm height) for ER straight outlet feed connectors type N1 to N6

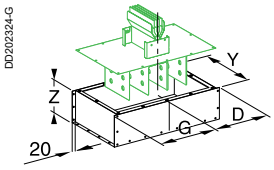
Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	400 to 800
2000 to 3200	350	220 to 475	220 to 475	400 to 800
4000 and 5000	510	220 to 475	220 to 475	400 to 800

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.



Centre lines.



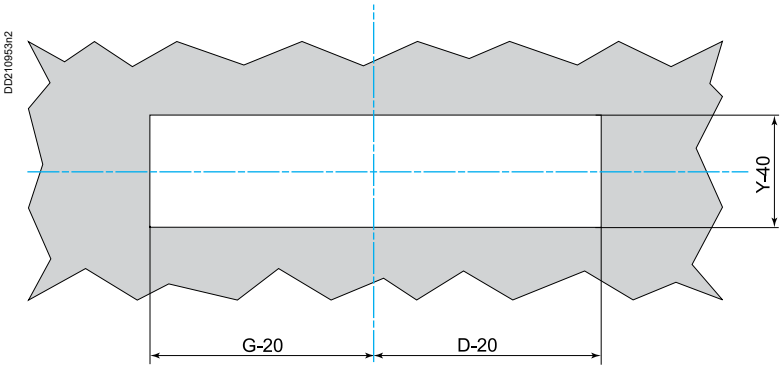
KTB●●●●CR3

Rigid vertical cover KTB●●●●CR3 (100 to 400 mm height) for ER straight outlet feed connectors type N1 to N6

Rating (A)	Dimensions (mm)			
	Y	D	G	Z
1000 to 1600	230	220 to 475	220 to 475	400 to 800
2000 to 3200	350	220 to 475	220 to 475	400 to 800
4000 and 5000	510	220 to 475	220 to 475	400 to 800

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.

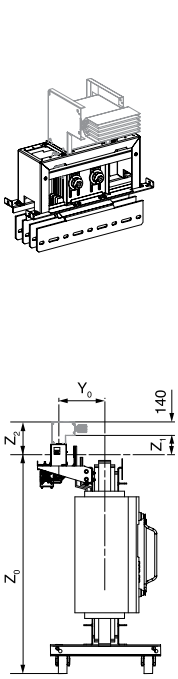
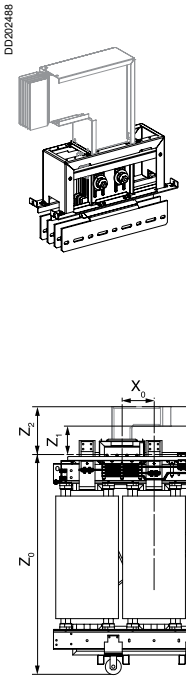
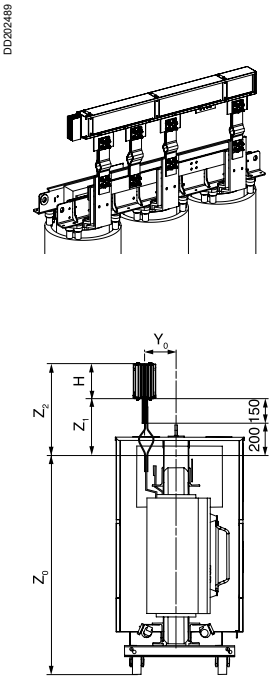


Centre lines.

Connection to cast resin transformers
Selection guide

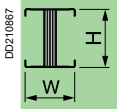
Canalis KTC

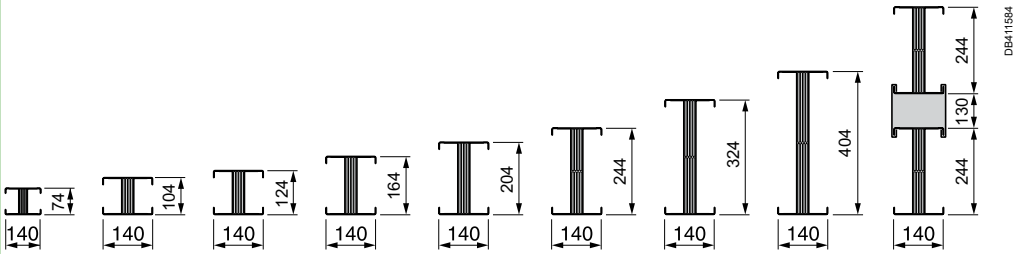
This guide will allow you to:
- choose the connection best suited to your layout (incoming direction, flat or edgewise busbar trunking, possibility of adjusting phase order)
- check the total height of the link with respect to the premises' ceiling height, dimension Z0 + Z2 (plan for 100 mm minimum between 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
- position the sections for the busbar trunking supports.

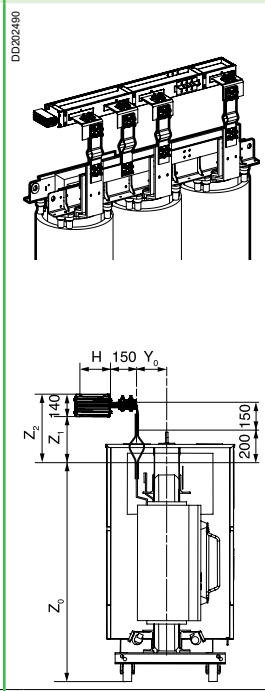
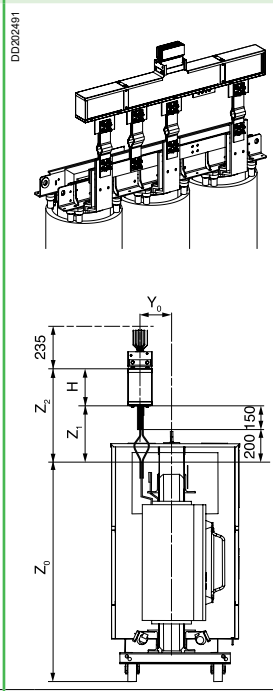
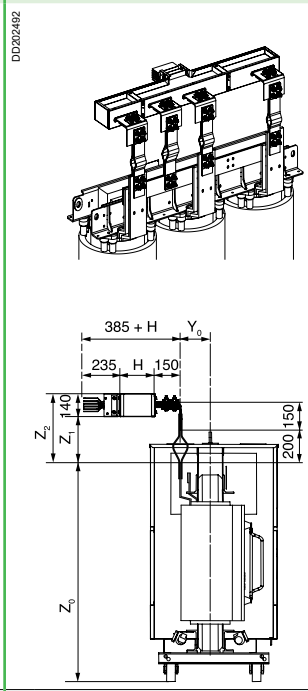
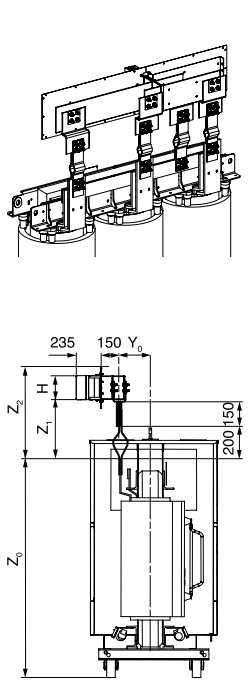
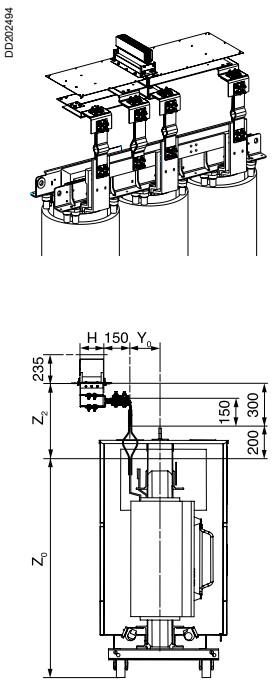
Type of connection	Connection with interface to Trihal transformers		Universal connection
	TS1	TS2	TS3
			
Z_0	See page 224	See page 224	According to manufacturer's drawing
Z_1 **minimum**	230	238	350
maximum	-	-	350
Z_2	Z_1 + 140	Z_1 + H	Z_1 + H
Selecting phase order	Fixed	Fixed	At time of order
Front or rear exit	■		
Right or left exit		■	■
Edgewise layout		■	■
Flat layout	■		

Trunking cross-section

Rating (A)	1000	1350	1600	2000	2500	3200	4000	5000	6300
Height H (mm) Width W (mm)	74 140	104 140	124 140	164 140	204 140	244 140	324 140	404 140	244 130 244 140





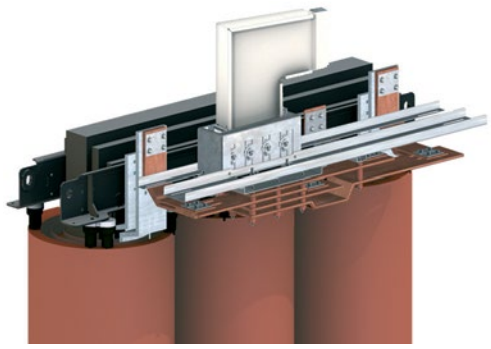
	TS4	TS5	TS6	TS7	TS8
					
	According to manufacturer's drawing	According to manufacturer's drawing	According to manufacturer's drawing	According to manufacturer's drawing	According to manufacturer's drawing
	280	350	280	350	-
	280 (1)	350 (1)	280 (1)	350 (1)	-
	420 (1)	Z_1 + H	420 (1)	H = 74 or 104 or 124 mm: Z_1 + H/2 + 115 H = 164 or 204 or 244 mm: Z_1 + H/2 + 175 H = 324 or 404 mm: Z_1 + H/2 + 255	500 (1)
	At time of order	At time of order	At time of order	At time of order	At time of order
	■		■	■	
			■		
	■			■	

(1) To use standard connection plates L = 406 mm in accordance with our recommendations.

Connection to Trihal cast resin transformers
By Canalis interface

Canalis KTC

PD202434_r



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 (Δθ) 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-type transformer					Canalis KTC	
Rating (kVA)	I nominal (1) (A)	Interface			Cross-section	Type
		Type	Junction	Rating (A)		
630	887	1	H124	1600	140 x 74	KTC1000
800	1126	2	H164	2000	140 x 104	KTC1350
1000	1408	3	H204	2500	140 x 124	KTC1600
1250	1760	4	H244	3200	140 x 164	KTC2000
1600	2253	5	H324	4000	140 x 204	KTC2500
2000	2816	6	H404	5000	140 x 244	KTC3200
2500	3520	7	H404	5000	140 x 324	KTC4000

(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.

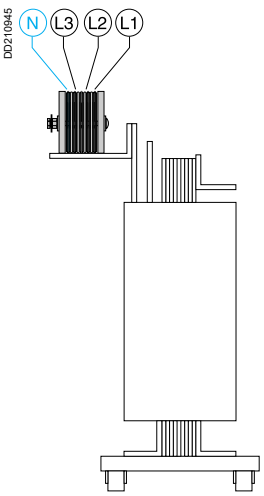
Dry-type transformer					Canalis KTC	
Rating (kVA)	I nominal (1) (A)	Interface			Cross-section	Type
		Type	Junction	Rating (A)		
630	1108	1	H124	1600	140 x 104	KTC1350
800	1407	2	H164	2000	140 x 124	KTC1600
1000	1760	3	H204	2500	140 x 164	KTC2000
1250	2253	4	H244	3200	140 x 204	KTC2500
1600	2816	5	H324	4000	140 x 244	KTC3200
2000	3520	6	H404	5000	140 x 324	KTC4000

(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.

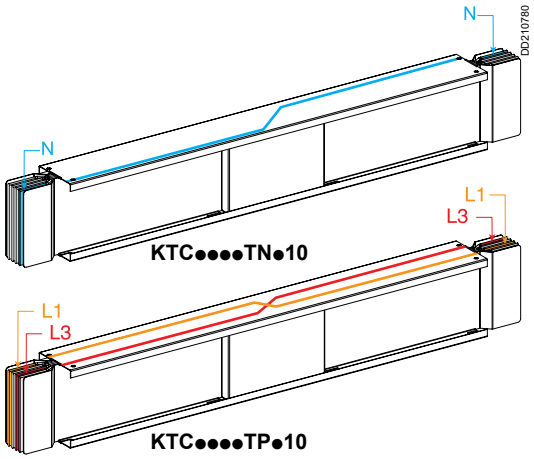
Phase order

DD210945

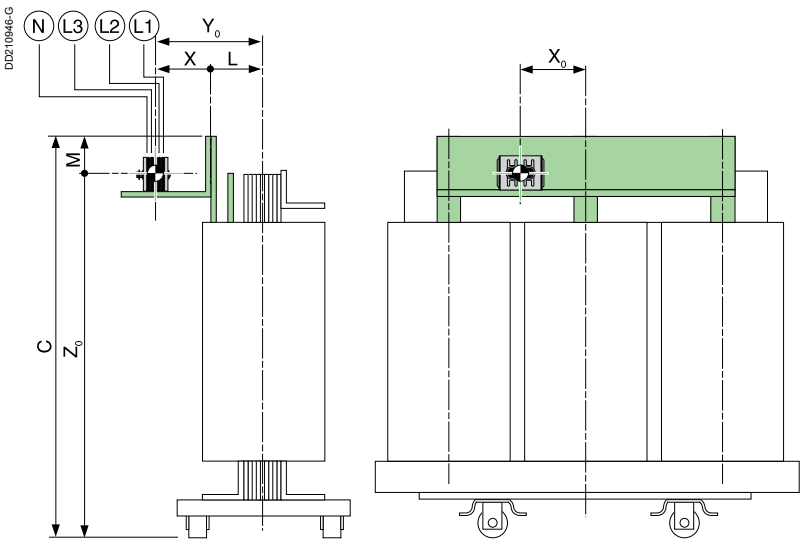


If the phase order of the busbar trunking is different to that of the switchboard's busbars, it is recommended a phase inversion is carried out in the switchboard.
If this cannot be done, use the phase and neutral transposition section.
For more information on transposition sections, see "Description" page 33 and "Catalogue numbers/Dimensions" section, page 56.

DD210780



Connection to Trihal cast resin transformers
By Canalis interface



Reference point

Dimensions

Dimensions X, M and X_0

Dimensions (mm)	Transformer power (kVA)						
	630	800	1000	1250	1600	2000	2500
X	147	150	170	147	150	170	153
M	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_0 and Z_0

$Y_0 = X + L$

$Z_0 = C - M$

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 (mm)	Transformer power (kVA)						
	630	800	1000	1250	1600	2000	2500
C	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 (mm)	Transformer power (kVA)						
	630	800	1000	1250	1600	2000	2500
C	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 (mm)	Transformer power (kVA)					
	630	800	1000	1250	1600	2000
C	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

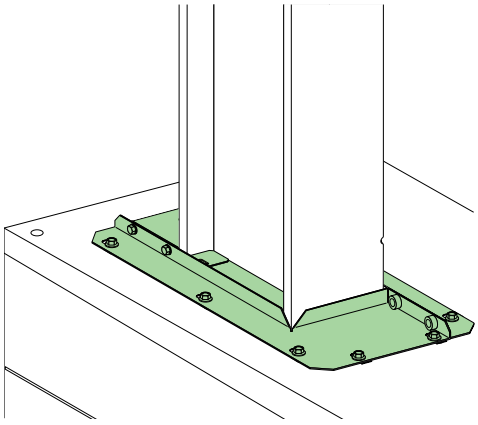
Dimensions (mm)	Transformer power (kVA)						
	630	800	1000	1250	1600	2000	2500
C	1484	1564	1694	1844	2054	2149	2164
L	215	210	215	225	230	255	235

Connection to Trihal cast resin transformers
By Canalis interface

Canalis KTC

Sealing kit

DD206013-G

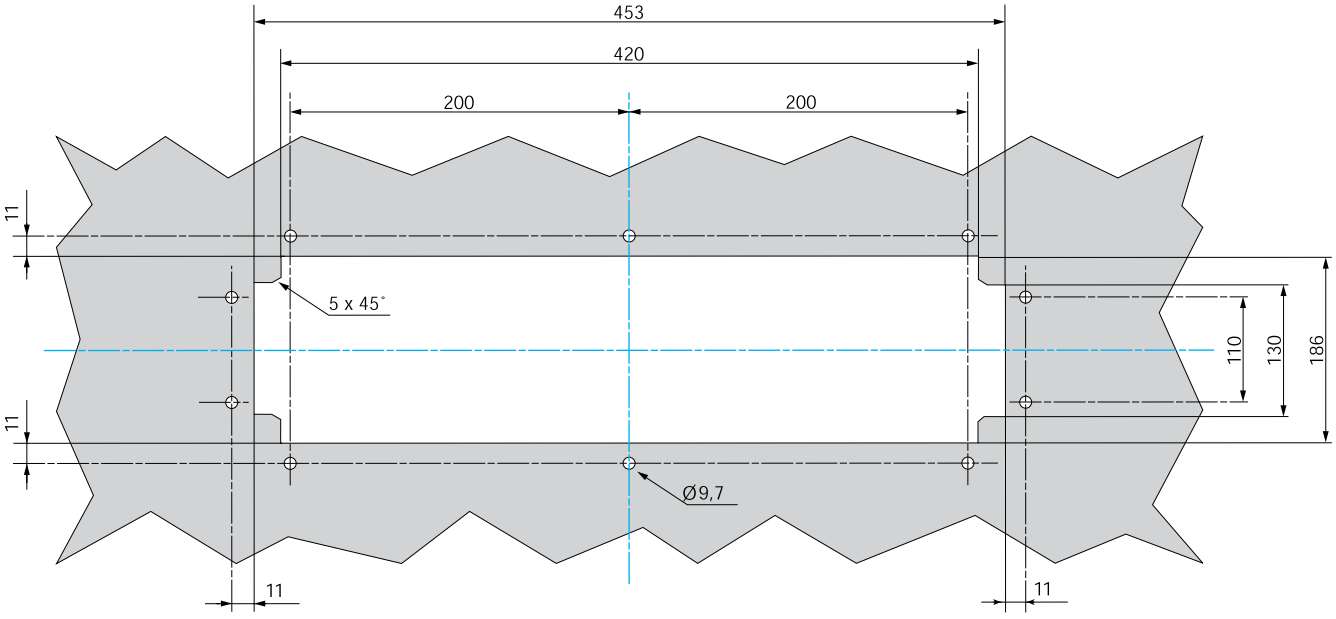


KTB0●●●●TT01

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.

Cut-out drawing

DD210776

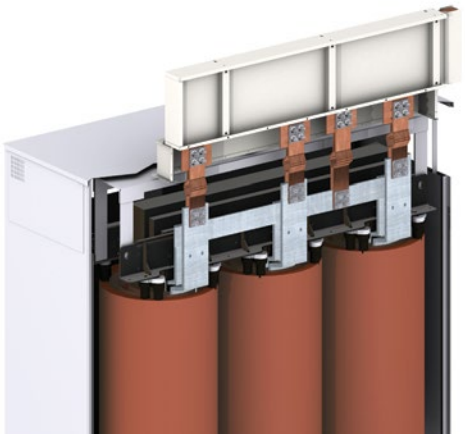


It is recommended that the cutting-out of the transformer panels is done in the workshop.

Junction axis.

Connection to cast resin transformers
By universal feed and connection plates

PD202352



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.

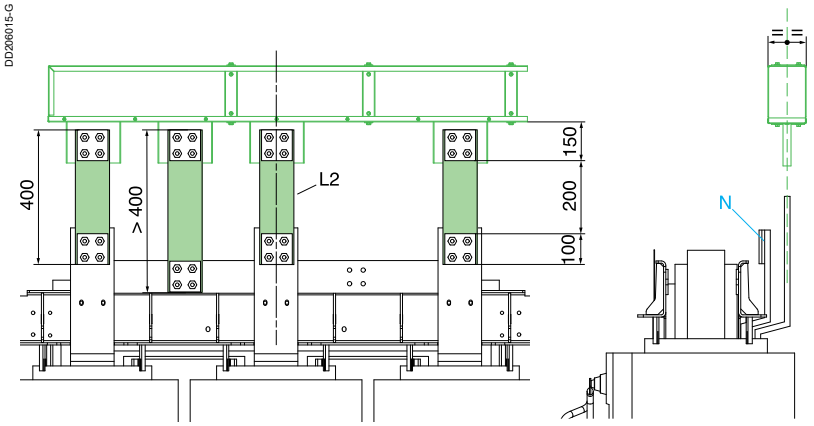
Transformer		KTC rating at nominal power (2) (A)
Power (kVA)	I nominal (1) (A)	
630	887	1000
800	1126	1350
1000	1408	1600
1250	1760	2000
1600	2253	2500
2000	2816	3200
2500	3520	4000
3150	4435	5000

(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 short-circuit withstand (connection plate L = 400 mm)

TS3 and TS5 universal connection, edgewise mounting

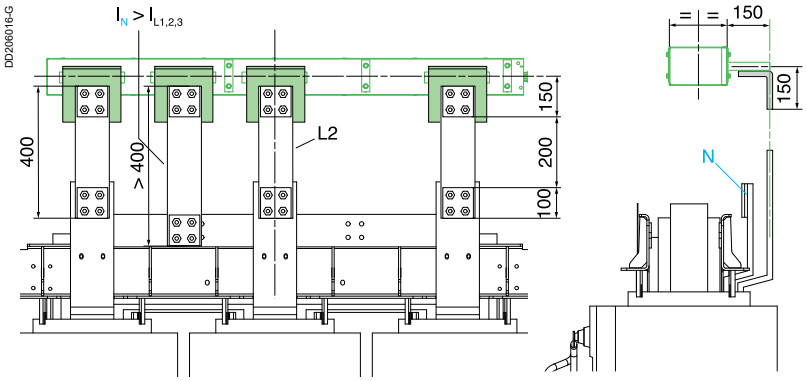
DD206015-G



KTC●●●●EL●1 or **KTC●●●●EL●2** or **KTC●●●●EL●3** or **KTC●●●●EL●4**

TS4 and TS6 universal connection, flat mounting (using angle brackets)

DD206016-G

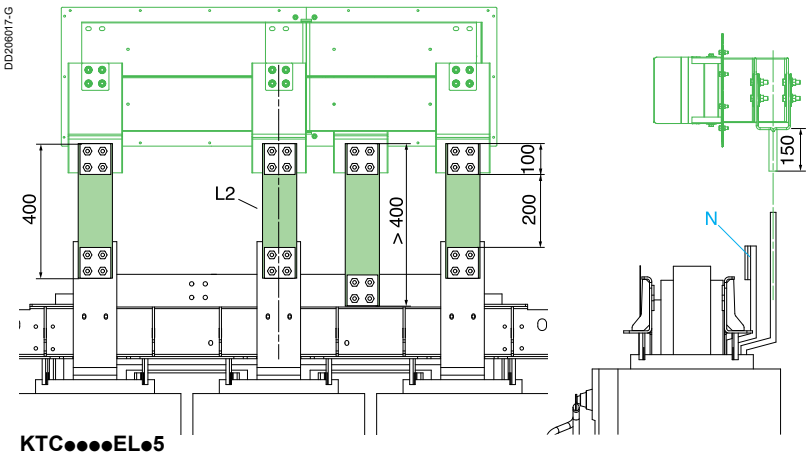


KTC●●●●EL●1 or **KTC●●●●EL●2** or **KTC●●●●EL●3** or **KTC●●●●EL●4** with angle bracket **KTB0000YE1**

Connection to cast resin transformers
By universal feed and connection plates

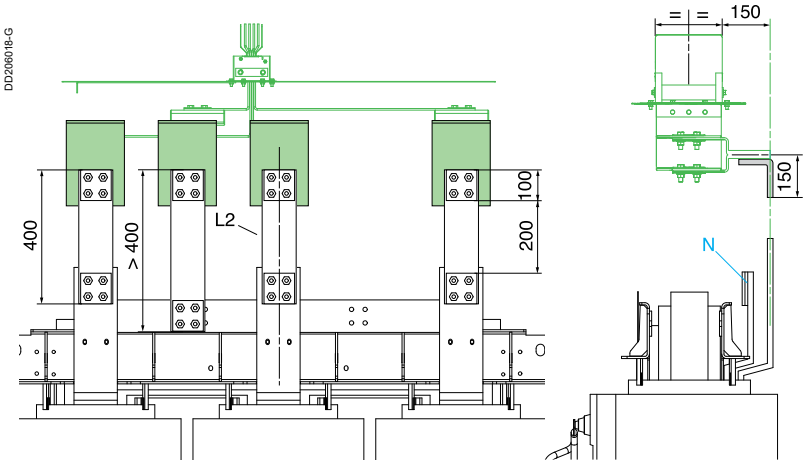
Canalis KTC

TS7 universal connection, edgewise mounting



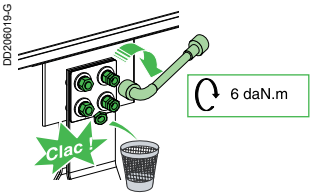
KTC●●●●EL●5

TS7 universal connection, flat mounting (using angle brackets)



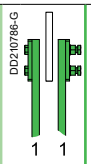
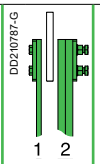
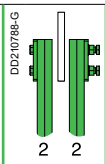
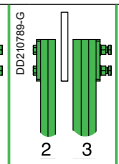
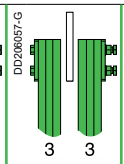
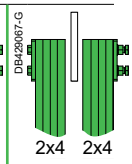
KTC●●●●EL●5 with angle bracket **KTB0000YE**

Definition of connection plates



The required number of connection plates is indicated in the table below.

Busbar trunking rating (A)	Bare copper connection plates per phase	
	Number	Section (mm²)
1350	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 (100 x 5)	3000
6300	16 (YC5 - 100 x 5)	6000

Connection plates						
	DD210786-G 1 1	DD210787-G 1 2	DD210788-G 2 2	DD210789-G 2 3	DD206057-G 3 3	DB429067-G 2x4 2x4
Busbar trunking rating (A)	1350 to 1600	2000 to 2500	3200	4000	5000	6300

Connection to cast resin transformers
By universal feed and connection plates

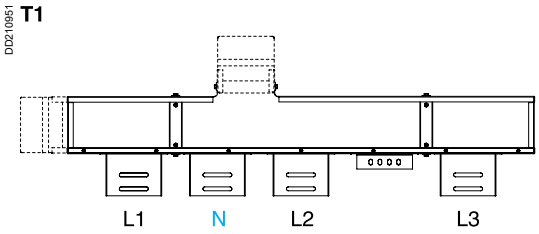
Phase order

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.

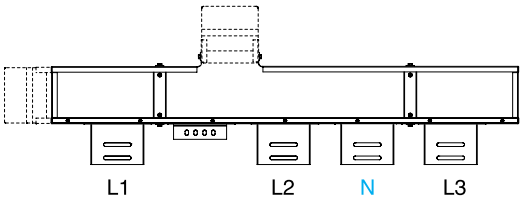
The different phase selection possibilities (T)

■ Dedicated feeds N1 to N4,

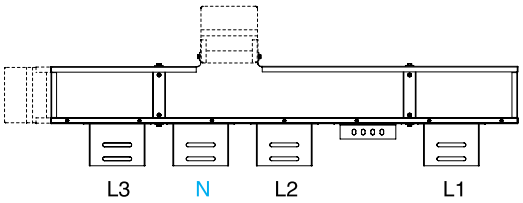
T1



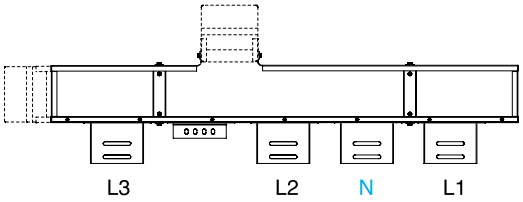
T2



T3



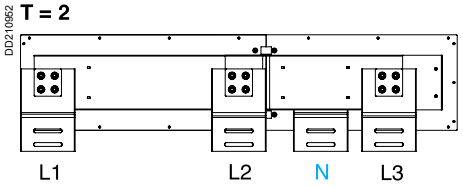
T4



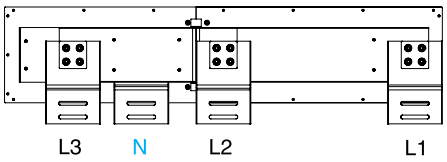
Important: the drawings and references above correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse T=1 with T=3 and T=2 with T=4.

■ Feed with flat bars N5.

T = 2



T = 3



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.

Connection to cast resin transformers
By universal feed and connection plates

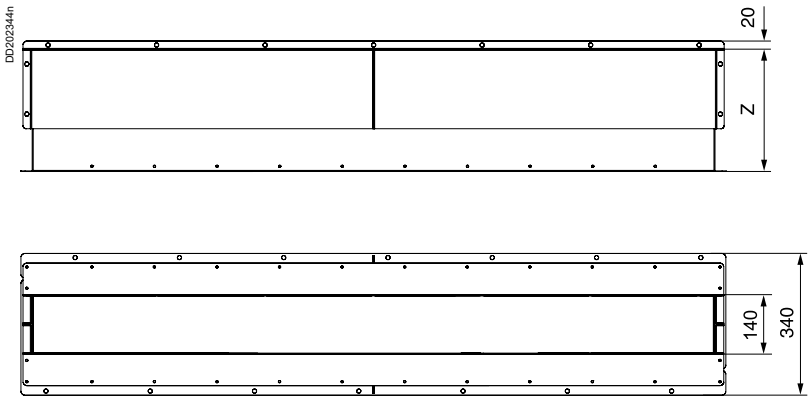
Canalis KTC

Dimensions of protective covers

Vertical protection covers for dry-type transformer feeds N1, N2, N3 and N4

Rating (A)	Dimensions (mm)		
	Y	Z	
		Minimum	Maximum
1000 to 1600	230	200	350
2000 to 3200	350	200	350
4000 to 5000	510	200	350

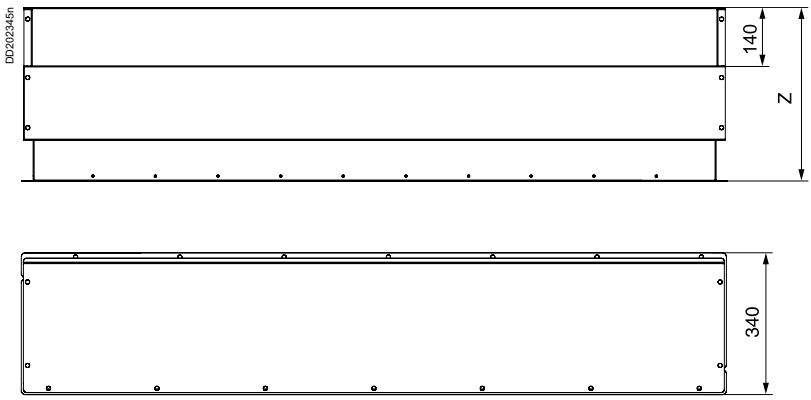
KTB0000CR4



Horizontal protection covers for dry-type transformer feeds N1, N2, N3 and N4

Rating (A)	Dimensions (mm)		
	Y	Z	
		Minimum	Maximum
1000 to 1600	230	330	480
2000 to 3200	350	330	480
4000 to 5000	510	330	480

KTB0000CR5

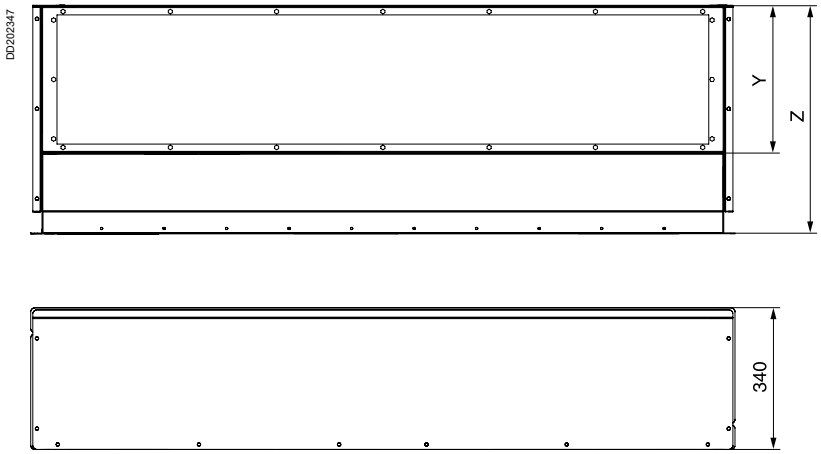


Connection to cast resin transformers
By universal feed and connection plates

Horizontal protection cover for dry-type transformer feed N5

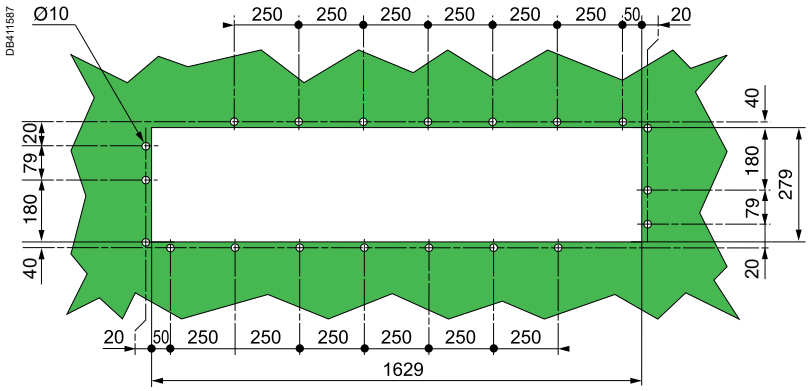
Rating (A)	Dimensions (mm)		
	Y	Z	
		Minimum	Maximum
1000 to 1600	230	380	530
2000 to 3200	350	500	650
4000 to 5000	510	660	810

KTB●●●●CR6



Cut-out drawing for dry-type transformer panels

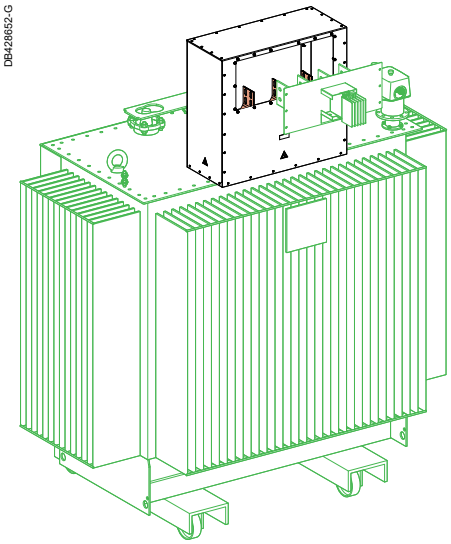
It is recommended that the cutting-out of the transformer panels is done in the workshop.



View from the top of the transformer.

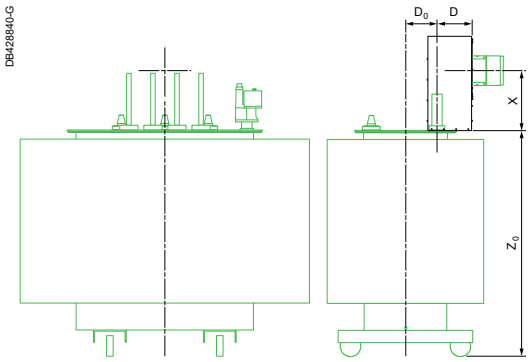
Connection to Minera immersed transformers
Horizontal incomer

Canalis KTC

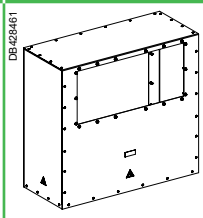
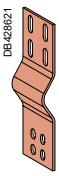


Canalis KT is easily connectable to Minera transformers.
A pre-designed interface including cover, flexible links and bolts is installed in place of the cable box delivered (or not) with the transformer.
This solution that connects end feed units ER1 to ER6, make the design simple and fast.
- Position 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.



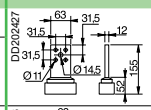
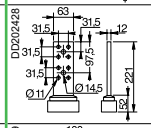
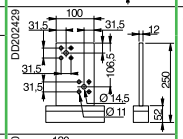
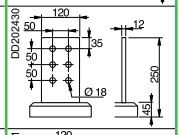
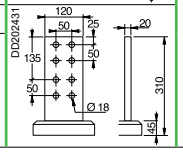
KTC Minera interfaces composition - horizontal incomer

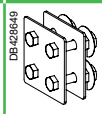
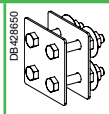
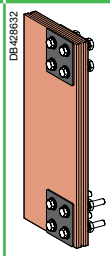
	Protective covers			Flexible links reference and quantity				
								
Type	**Catalogue number**	**D (mm)**	**X (mm)**	**Polarity**	**KTB0100YC305B** (dimensions in mm)			
					L = 320 A = 32 B = 60 C = 34 D = 32 E = 2 F = 2 Y = 25	L = 320 A = 32 B = 30 C = 34 D = 32 E = 2 F = 2 Y = 25	L = 350 A = 32 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
KTC H2	**KTB0230CR71**	150	320	3P	6			
				4P	8			
KTC H3	**KTB0350CR72**	150	350	3P		9		
				4P		12		
KTC H4	**KTB0350CR73**	150	400	3P			6	3
				4P			7	5
KTC H5	**KTB0350CR73**	150	400	3P			6	6
				4P			8	8
KTC H6	**KTB0350CR74**	180	400	3P				
				4P				
KTC H7	**KTB0510CR72**	180	470	3P				
				4P				
KTC H8	**KTB0510CR73**	180	510	3P				
				4P				
KTC H9	**KTB0510CR73**	180	510	3P				
				4P				
KTC H10	**KTB0726CR71**	180	469	3P				
				4P				

Interface details, see page 88

Connection to Minera immersed transformers
Horizontal incomer

Horizontal incomer interface

Minera transformer			Canalis KT feed unit ER1, ER2, ER3, ER4, ER5, ER6								
Rating (kVA)	**I nominal (A)**	**Bar bushing dimensions (mm)**	**Between centres J, K and M (mm)**	**KTC1350**	**KTC1600**	**KTC2000**	**KTC2500**	**KTC3200**	**KTC4000**	**KTC5000**	**KTC6300**
630	887		150	Type KTC H2							
800	1126			Type KTC H2	Type KTC H2						
1000	1408				Type KTC H2	Type KTC H3					
1250	1760		170			Type KTC H4	Type KTC H4				
1600	2253						Type KTC H4	Type KTC H5			
2000	2816							Type KTC H6	Type KTC H7		
2500	3520								Type KTC H8	Type KTC H9	
3150	4435									Type KTC H9	Type KTC H10

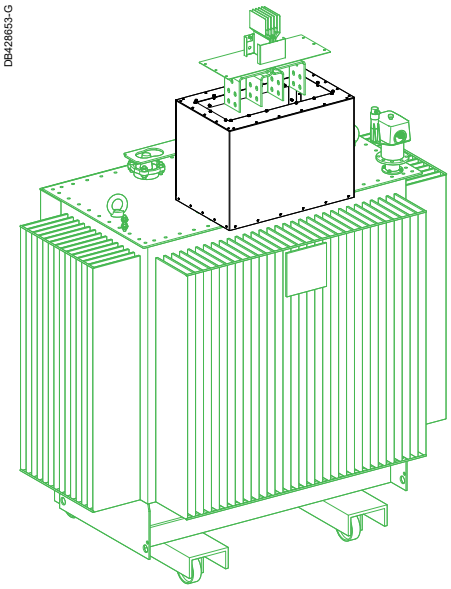
						Bolts sets reference and quantity			Connection plates
									
KTB0120YC305B (dimensions in mm)						**KTB0000YB3**	**KTB0000YB4**	**KTB0000YB5**	**KTB0000YP21**
L = 350 A = 50 B = 24 C = 20 D = 50 E = 2 F = 2 Y = 50	L = 350 A = 50 B = 24 C = 50 D = 50 E = 2 F = 2 Y = 20	L = 370 A = 50 B = 24 C = 20 D = 50 E = 2 F = 2 Y = 50	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				
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
6	6					2			
8	8					2			
		6	9				2		
		8	12				2		
				6	9		2		
				8	12		2		
				9	9		2		
				12	12		2		
12	12						1		3
16	16						1		4

Set of bolts details, see page 103

Connection to Minera immersed transformers by standard interface

Vertical incomer

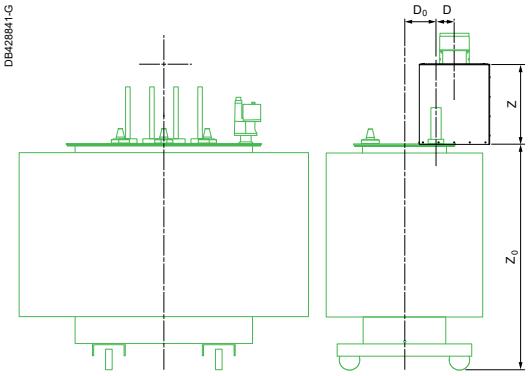
Canalis KTC



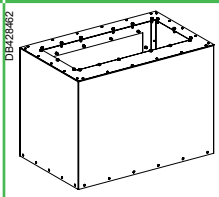
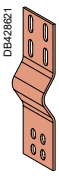
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The dimensions D and Z are given by the Table 1.
D_0 and Z_0 must be taken from the transformer documentation.
The interface is always centered in the middle of the transformer indifferently for the 3P or 4P versions.



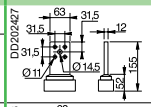
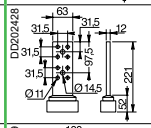
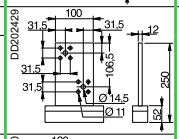
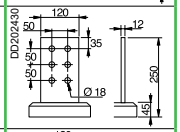
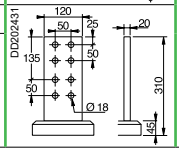
KTC Minera interfaces composition - vertical incomer

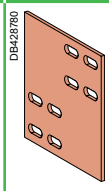
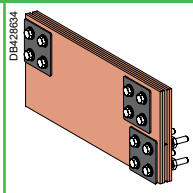
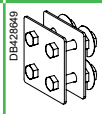
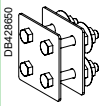
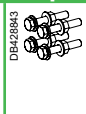
	Protective covers				Flexible links reference and quantity								
													
Type	**Catalogue number**	**D (mm)**	**Z (mm)**	**Polarity**	**KTB0100YC305B** (dimensions in mm)					**KTB0120YC305B**			
					L = 320 A = 32 B = 50 C = 15 D = 32 E = 2 F = 2 Y = 31	L = 320 A = 32 B = 50 C = 53 D = 32 E = 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	L = 320 A = 50 B = 24 C = 29 D = 50 E = 2 F = 2 Y = 50	L = 320 A = 50 B = 24 C = 41 D = 50 E = 2 F = 2 Y = 20	L = 320 A = 50 B = 32 C = 35 D = 50 E = 2 F = 2 Y = 35	L = 340 A = 50 B = 20 C = 35 D = 50 E = 2 F = 2 Y = 35
KTC V2	**KTB0230CR81**	25	480	3P	3	3							
				4P	4	4							
KTC V3	**KTB0350CR81**	94	580	3P			9						
				4P			12						
KTC V4	**KTB0350CR82**	74	600	3P				6	3				
				4P				7	5				
KTC V5	**KTB0350CR82**	74	600	3P				6	6				
				4P				8	8				
KTC V6	**KTB0350CR83**	21	520	3P						6	6		
				4P						8	8		
KTC V7	**KTB0510CR82**	101	615	3P								15	
				4P								20	
KTC V8	**KTB0510CR82**	101	615	3P									15
				4P									20
KTC V9	**KTB0510CR82**	101	615	3P									18
				4P									24
KTC V10	**KTB0726CR81**	202	591	3P									24
				4P									32

Interface details, see page 89

Connection to Minera immersed transformers by standard interface
Vertical incomer

Vertical incomer interface

Minera transformer			Canalis KT feed unit ER1, ER2, ER3, ER4, ER5, ER6								
Rating (kVA)	I nominal (A)	Bar bushing dimensions (mm)	Between centres J, K and M (mm)	KTC1350	KTC1600	KTC2000	KTC2500	KTC3200	KTC4000	KTC5000	KTC6300
630	887		150	Type KTC V2							
800	1126			Type KTC V2	Type KTC V2						
1000	1408				Type KTC V2	Type KTC V3					
1250	1760		170			Type KTC V4	Type KTC V4				
1600	2253						Type KTC V4	Type KTC V5			
2000	2816							Type KTC V6	Type KTC V7		
2500	3520								Type KTC V8	Type KTC V9	
3150	4435									Type KTC V9	Type KTC V10

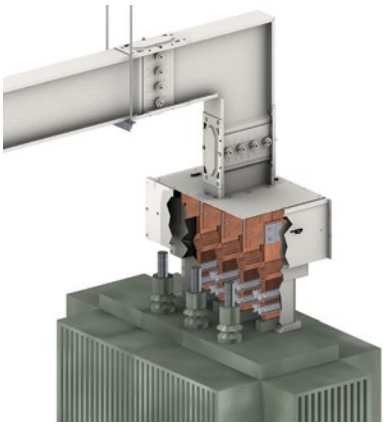
Connection plates reference and quantity					Bolts sets reference and quantity		
							
KTB0000YP11 (dimensions in mm)	KTB0000YP12 (dimensions in mm)	KTB0000YP13 (dimensions in mm)	KTB0000YP14 (dimensions in mm)	KTB0000YP22	KTB0000YB3	KTB0000YB4	KTB0000YB5
A = 20 B = 28 H = 200 W = 200 X = 28 Y = 20	A = 20 B = 38 H = 200 W = 200 X = 38 Y = 20	A = 20 B = 28 H = 260 W = 200 X = 28 Y = 20	A = 20 B = 25 H = 200 W = 200 X = 25 Y = 21				
					1		1
					1		1
3					2		1
4					2		1
	3				2		1
	4				2		1
	3				2		1
	4				2		1
					2		
					2		
			3		1	2	
			4		1	2	
			3		1	2	
			4		1	2	
			3		1	2	
			4		1	2	
				3		1	
				4		1	

Set of bolts details, see page 103

Connection to oil immersed transformers
By feed and connection plates or braids

Canalis KTC

PD202344



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 transformer		Canalis KTC busbar trunking	
Rating (kVA)	I nominal (1) (A)	Rating (A)	Cross-section
630	887	1000	140 x 74
800	1126	1350	140 x 104
1000	1408	1600	140 x 124
1250	1760	2000	140 x 164
1600	2253	2500	140 x 204
2000	2816	3200	140 x 244
2500	3520	4000	140 x 324
3150	4435	5000	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.

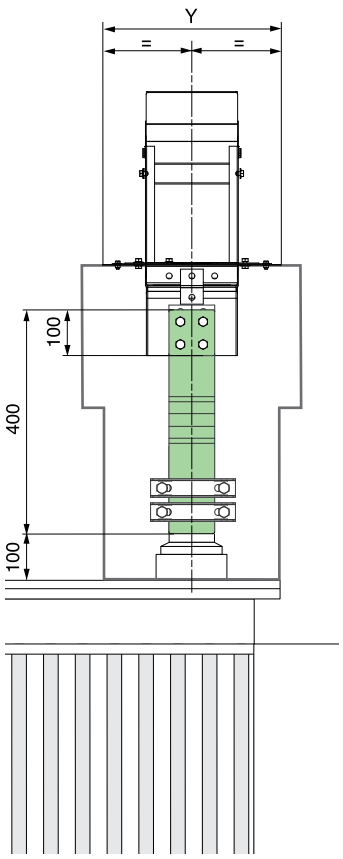
Protective cover width

Busbar trunking rating (A)	Dimensions "Y" of the feed
1350 to 1600	230
2000 to 3200	350
4000 to 5000	510

Recommended configurations for short-circuit withstand (connection plate L = 400 mm)

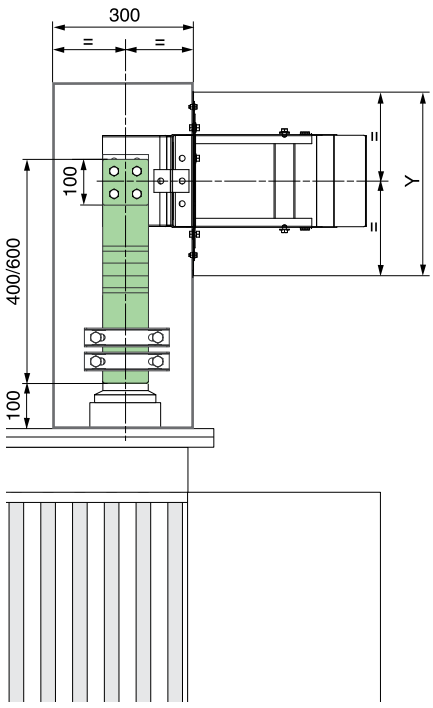
Vertical incomer

DD202421n-G



Horizontal incomer

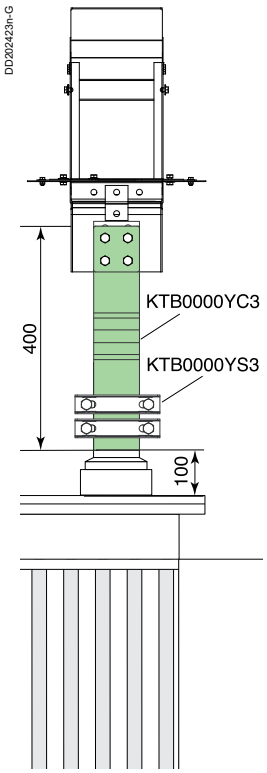
DD202422n-G



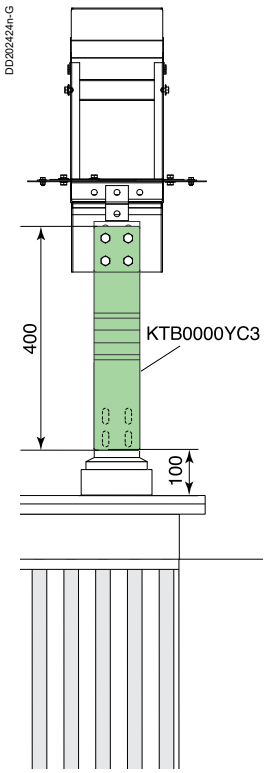
Connection to oil immersed transformers
By feed and connection plates or braids

Several connection possibilities

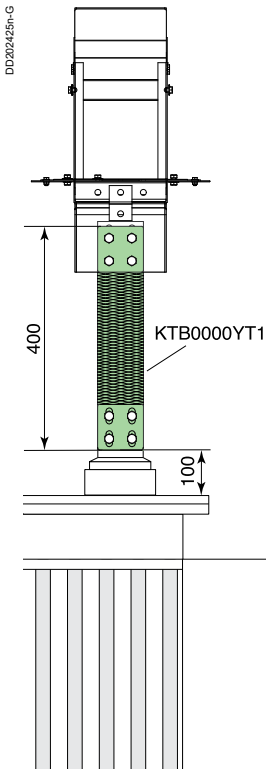
With connection plates with kink and bar clamp



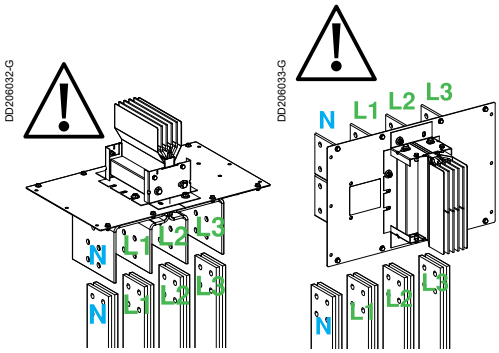
With connection plates with kink to be drilled



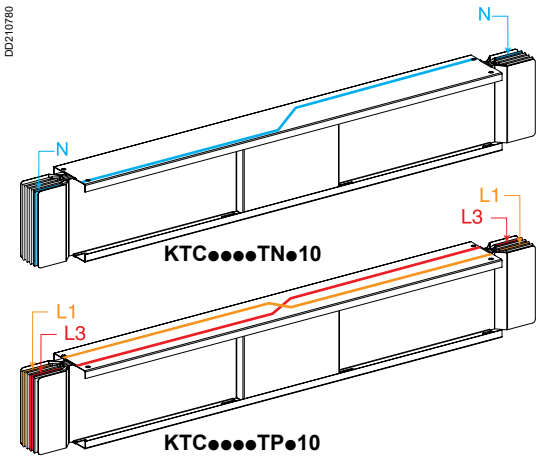
With drilled connection plates (KTB0000YC4) or braids



Phase order



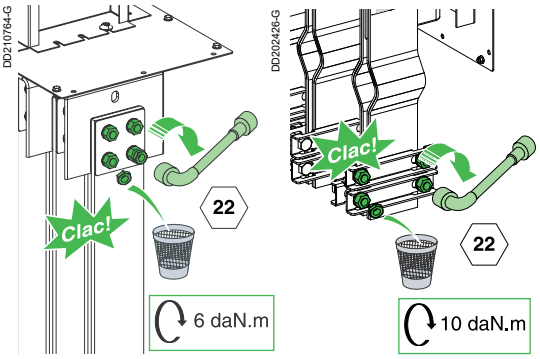
If the phase order of the busbar trunking is different to that of the switchboard's busbars, it is recommended a phase inversion is carried out in the switchboard. If this cannot be done, use the phase and neutral transposition section.
For more information on transposition sections, see "Description" page 33 and "Catalogue numbers / Dimensions" page 56.

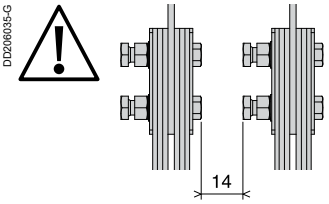


Connection to oil immersed transformers
By feed and connection plates or braids

Canalis KTC

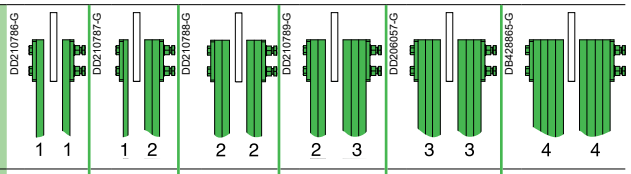
Definition of connection plates





The number of connection plates is defined in the table below:

Busbar trunking rating (A)	Bare copper connection plates per phase	
	Number	Section (mm²)
1350	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 (100 x 5)	3000
6300	8 (120 x 5)	4800

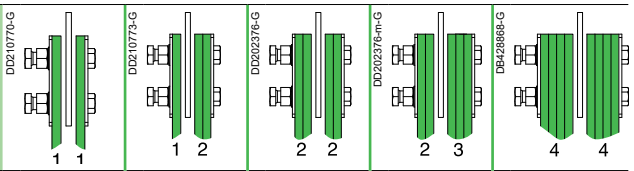
Connection plates						
	DD210786-G 1 1	DD210787-G 1 2	DD210788-G 2 2	DD210789-G 2 3	DD206057-G 3 3	DB428865-G 4 4
Busbar trunking rating (A)	1350 to 1600	2000 to 2500	3200	4000	5000	6300

Definition of braids



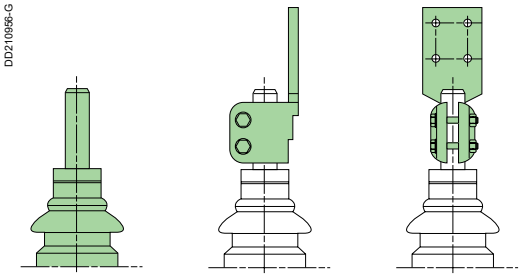
The number of braids is defined in the table below:

Busbar trunking rating (A)	Braids per phase	
	Number	Cross-section (mm)
1350	2	1200
1600	2	1200
2000	2	1200
2500	3	1800
3200	3	1800
4000	4	2400
5000	5	3000
6300	8	4000

Braids					
	DD210770-G 1 1	DD210773-G 1 2	DD202376-G 2 2	DD202376-m-G 2 3	DB428868-G 4 4
Busbar trunking rating (A)	1350 to 2000	2500 to 3200	4000	5000	6300

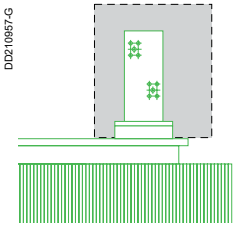
Connection to porcelain bushings

Connection terminals of the type defined below must be used. These are available in the transformer manufacturers' catalogues.



Cover

The transformers can be supplied with or without a low voltage cover. This cover is not used in our solutions.



Recommendations

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F

Reception, handling and storage

Canalis KTC

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.

Reception, handling and storage

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.

Canalis KTC

Recommended periodical maintenance procedures

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Schneider Electric for any arising out of the use of this material.
A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

The frequency and the level of the maintenance depend of the criticality of the application and the environmental conditions.
These recommendations regard the busbar trunking system. For all devices fitted in tap-off units, the manufacturer's recommendations must be complied with.

A basic maintenance must be performed for any type of applications, under any conditions

Every year inspect the external appearance of busbar trunking lengths, accessories and supports.

Check if there is no:
- deformation, damage or dirt
- dislocation, bending, misalignment and other abnormality of the connecting covers, hangers and plug-in units
- junction blocks or terminals discoloured, corroded or pitted, or show signs it has been exposed to high temperatures
- change in the environment that can affect the busway operation such as water, moisture, high temperature, corrosive gas, immoderate vibration, dust, air circulation, new hot air source.

Every year inspect the external appearance of tap-off units.

- Remove dust, water and oil deposits, and all other conductive bodies from the sensitive zones.

The contact between busbar trunking and tap-off boxes does not need specific maintenance: Busbar trunking contacts consist of sprung silver plated contact jaws to ensure optimum contact quality.

In event of electrical default, fire, water leakage, earthquake or any important change an immediate inspection must be carried out.

A more specific maintenance must be performed when the busbar trunking system feeds critical applications or in case of unfavourable environmental conditions

Critical applications means: needs of high level of continuity of service such as hospital secured power distribution, data centre IT or cooling power supply or with a high load factor.
Unfavourable conditions are: high ambient temperature, high level of humidity, environment with a lot of dust, vibrations or similar.

Every year achieve a basic maintenance as described in the above chapter.

Every year check is there is no abnormal temperature.

- 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.


DB409492

Notice
A periodic thermal monitoring allows tracking and detecting abnormal drifts.
In case of abnormal results, check with a torque wrench, all the connections.

Type	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 busbar trunking

DD206673_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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KTC3200ED4302	KT 2X3200CO PLUG-IN LENGTH	50
KTC3200ED4351	KT 1X3200CO PLUG-IN LENGTH	50
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