



An industry leading portfolio of offers delivering sustainable value



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

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

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

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

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

Cost of ownership optimization through... Circular Performance

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

Peace of mind through... Well-being Performance

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

Improved sales through... Differentiation

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



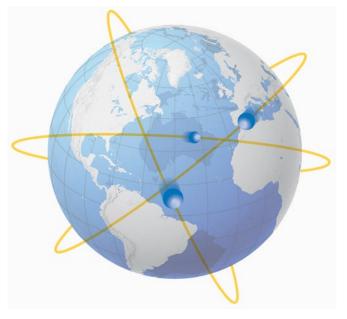
Discover what we mean by green
Check your products!

General content

Canalis KTA

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Canalis the ideal offer to match with your needs



+70,000

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

A total coordination with the Schneider Electric system

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

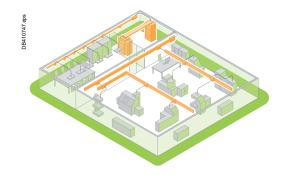


Canalis KT provides you ...

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

A Canalis installation for every distribution system

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



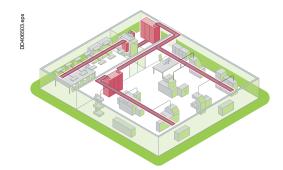
Decentralized distribution

For manufacturing industries

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

Decentralized distribution lets you

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



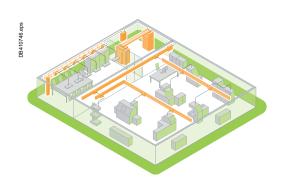
Centralized distribution

For all continuous processes

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

Centralized distribution

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



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.



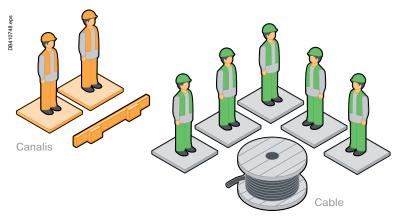
Exclusive features of the Schneider Electric

A competitive installation

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

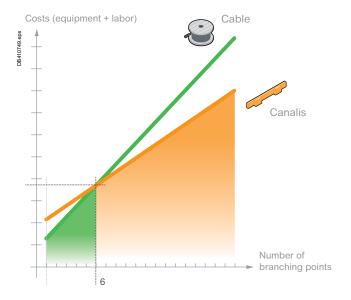
Savings start as soon as the installation begins. With tap-off points every 3 metres, Canalis busbar trunking reduces installation costs.

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



Comparative investment

of 400 A electric power system equipment.

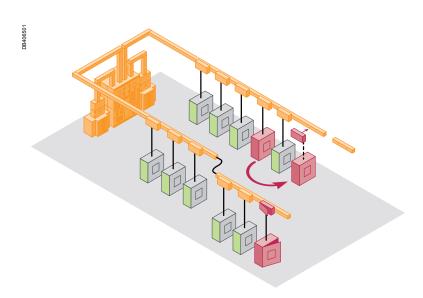


The Canalis decentralized distribution concept

Upgradeable during operation

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

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



Reusable in the event of major changes

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

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 quarantees a 95% recycling rate.

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

Simple to estimate Practical to recycle install Simple to maintain

Simple to maintain

- No maintenance is required on the Canalis electrical contacts.
- The clarity of the Canalis architecture simplifies building maintenance and upgrades:
- > enlarging office space,
- > adding check-outs in a supermarket...

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

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

Easy to install

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

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

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

Controlling costs

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

Canalis, in total harmony with the environment

Safety of life and property



With Canalis, no toxic emission in case of fire

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

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

Halogen-sensitive applications

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

Canalis contains no PVCs

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

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

Example:

Consequences of a fire in a 100 m² office with electrical distribution by cables.

200 kg of cables (i.e. 20 kg of PVC) produces:

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

Health



Canalis reduces the risk of exposure to electromagnetic fields

According to the WHO (World Health Organisation), exposure to electromagnetic fields can be a health hazard starting at levels as low as 0.2 micro-Teslas and could represent a 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.

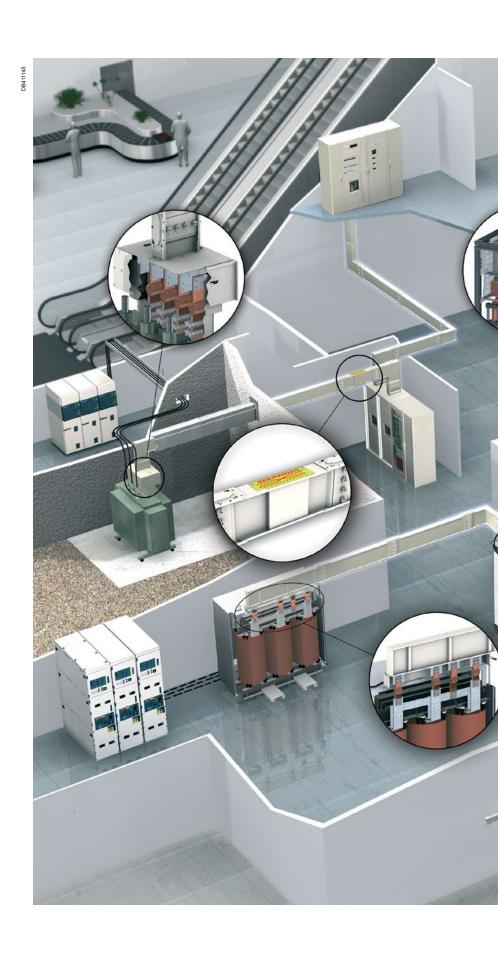
The concept of decentralised distribution is a way to merge all the circuits in one and thus to reduce to the maximum the low cross-section lengths and the weight of insulating materials.

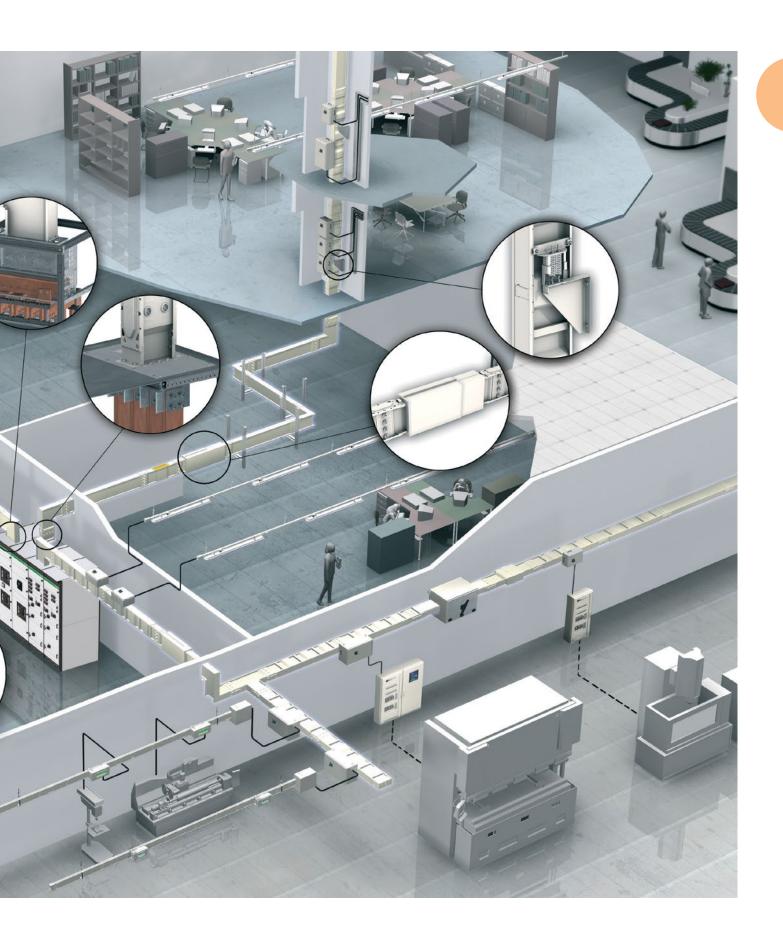


Canalis[®]

From the transport to the distribution...

Canalis is the core of your installation





Canalis KT, a display of advantages

A compact solution



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

A simple and economical system



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

Operating continuity

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

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

Canalis KT, a display of advantages

Certified installation



- Busbar trunking temperature rise and short-circuit withstand are known and independent of the installation.
 Coordination of the Schneider Electric system results in complete control of the electrical network.
- Installation standards UTE C 15-105
 chapter B.6.2 and IEC 60364 chapter

 5.523.6 stipulate that above 4 parallel
 cables, it is preferable to use busbar
 trunking. Paralleling many cables leads
 to uneven distribution of currents and the
 risk of abnormal temperature rise.
- Seismic certification to IEC 60980,
 Richter scale >7 and MSK 64 severity 9.

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

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

A large range of tap-off units

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

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

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

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



Canalis is adapted for all types of buildings

Key points

Office and hospital buildings

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

Shopping centres, airports and exhibition centres

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

Car industry and industrial buildings

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

Internet Data Centers

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













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**

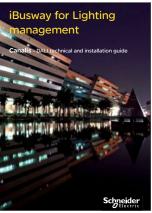


Application datasheets/Guide

- 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













Canalis, the reference all around the world

Tertiary

Applications	Name	Lighting and low current		Medium	current	High current	Country
		KBA	KBB	KN	KS	КТ	
Offices							
	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 Cente		-					
	Banco Commercial Português	T			•	•	Portugal
	Colt			•		•	France
	Digiplex			•	•		Sweden



		•		•	France
Digiplex		•	•		Sweden
IBM	•	•	•	•	Spain, Italy
MCI-Worldcom	•	•	•	•	Italy, United Kingdom

Hotels and restaurants

ts				
Hyatt			•	Tunisia
Mc Donald's				France
Soldeo Andorra Hotel		•	•	Spain



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



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

Canalis, the reference all around the world

Industry

KBA KBB KN KS KT Car industry		Applications	Name	Lighting ar	nd low	Medium cu	rrent	High current	Country
BMW					KBB	KN	KS		
BMW									
BMW		Car industry							
Citro	7 F		BMW	•	•	•	•		Italy
Decivity	FB110345-32							•	
Necessary Nece	2	73					•		
Peugeot			Dacia	•	•	•	•	•	Romania
Nisan			Iveco	•		•	•	•	Spain, Italy
Nisan			Peugeot		•	•	•	•	China, Spain, France
Seat			Nissan	•	•	•	•	•	
Valéo			Renault	•	•	•	•	•	Spain, France, Czech Republic
Poland Spain, Germany Poland Spain, Germany Sp			Seat						Spain
Other industries Aerospace industry Airbus			Valéo	•			•	•	China, France, Italy, Poland
Airbus			Volkswagen		•	•	•		Spain, Germany
Airbus									
Airbus		Other industries							
Airbus		Aerospace industry							
Coca-Cola Danone Danone Danone Pasquier Danone		· · · · ·	Airbus	•			•	•	Italy
Coca-Cola Danone Danone Danone Pasquier Danone								-	
Danone		Food-processing industry							
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Livestock production farms and greenhouses Favier henhouse Greenhouse Greenhouse Esmalglas ceramic Esmalglas ceramic Electricity Legrand Electronicy Watch-making Rolex Intel ST Micro-electronique France Grundfos Industry and water treatment Grundfos Industrial technology Bosch Phillips Nokia Nokia Esmalglas ceramic France France Switzerland France, Turkey Switzerland France China Netherlands Sweden Textile industry Louis Vuitton France Spain			Danone	•			•	•	World
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Canalis, the reference all around the world

Infrastructure

Applications	Name	Lighting current	and low	Medium	current	High current	Country
		KBA	КВВ	KN	KS	KT	
Airports							
	Paris Airport	•	•	•	•	•	France
	Cairo Airport				•		Egypt
	Heathrow Airport			•	•	•	United Kingdom
	Hong-Kong Airport					•	China
	Landvetter Airport				•		Sweden
The second secon	Arlanda	•			•	•	Sweden
Wasan & Berry	Satelite Barajas					•	Spain





Chantier de l'Atlantique

Meyerwerft

France

Germany

Undergrounds



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

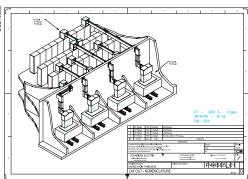
Other infrastructures

1163						
	Alexandria Library			•	•	Egypt
	Centre international d'exposition de Suzhou	•		•		China
	CERN			•	•	Switzerland
	Stade de France			•	•	France

Canalis tools and services

Working together on your solution





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

Design of electrical distribution architectures:

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

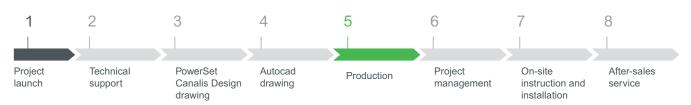
Full installation drawings*:

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

Site supervision and commissioning assistance.

Training for designers and contractors.

Canalis Busway "Total Solution":



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

Canalis tools and services

Empowering you with smart tools



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

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

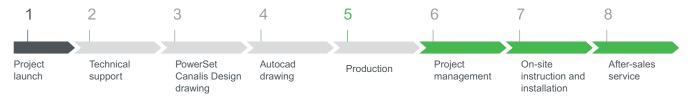
For Installers

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

For Facility Manager

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

Canalis Busway "Total Solution":



Canalis tools and services

Label Sticker

Label Sticker



Description	Cat. no
KT JB Positioning Label Sticker	KTB0100YL1

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

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

Junction 1-2

> **Junction** 2-3

Junction

--- up to

Junction 99-100

Label image



PowerSet Canalis Design

PowerSet Canalis Design gives you all the help you need

"Schneider Electric offers comprehensive design and costing software."

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

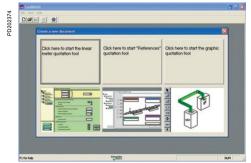
PowerSet Canalis Design, Your comprehensive tool

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

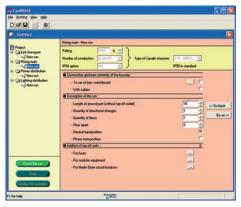
- Choose the required material
- Define a list of catalogue numbers and their exact quantities
- Generate a comprehensive quote that includes material and labour.

There are 2 options:

- · Linear metre costing.
- · Graphical costing.



Design guide.



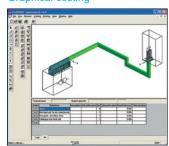
Enter Canalis run characteristics.

Linear meter costing

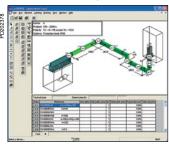


Switchboard access estimation of material and labour costs.

Graphical costing



Definition of catalogue numbers



Breakdown of the run by product function.

Quote



Presentation and description

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Panorama of Canalis range

Lighting distribution

Canalis KTA

Low & medium Power Solutions



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

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



Power distribution from 40 to 160 A IP55

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





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

Line components		Branching points			Accessories
Length of components	Number of conductors	Center to center distance		Protection type	
2 m and 3 m	2 or 4 + PE	0.5 m, 1 m on 1 side	L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control	With fuses or without protection	> Flexible components > Fixing devices with quick adjustment > Communication bus (DALI, ASI) > Cable ducts
2 m and 3 m	Single circuit 2 or 4 + PE Dual circuit 2 + 2 + PE 2 + 4 + PE 4 + 4 + PE	0.5 m or 1 m on 1 or 2 sides	L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control	With fuses or without protection	> Flexible components > Fixing devices with quick adjustment > Communication bus (DALI, ASI) > Cable ducts

Line components		Branching points			Accessories
Length of components	Number of conductors	Center to center distance		Protection type	
2 m and 3 m	4 + PE	0.5 m, 1 m on 1 side	16 A to 63 A (plug-in)	circuit breakers, fuses and sockets	> Flexible components > Fixing devices with quick adjustment > Remote control bus > Cable ducts > Installation accessories

Line components		Branching points			Accessories
Length of components	Number of conductors	Center to center distance		Protection type	
3 m, 5 m and additional or customized components	4 + PE	0.5 m or 1 m on each side for horizontal version, and on one side for vertical version		breakers (modular,	> Riser ducting offer > Fixing devices with quick adjustment > Cable ducts > Installation accessories > Fire barriers

Panorama of Canalis range

Power distribution

Canalis KTA

High Power Solutions



Power transmission and distribution from 800 to 6300 A IP55

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

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

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



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

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

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

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

Canalis KTA from 800 to 5000 A

For horizontal transport and distribution

Canalis KTA

Run sections

- Rating: 800 to 5000 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.



Tap-off units

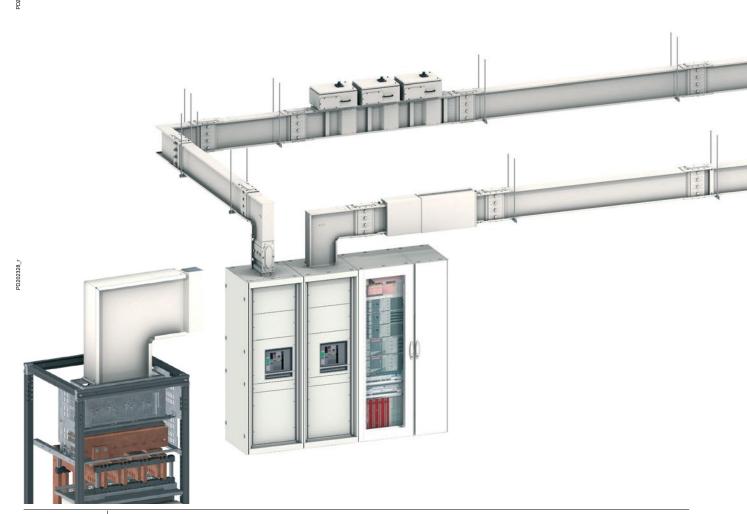
- Plug-in tap-off units:
- □ protection by 25 to 630 A fuses
- □ protection by 100 to 630 A Compact NSX circuit breakers.
- Fixed tap-off units:
- □ protection by 400 to 1250 A Compact NS and NSX circuit breakers
- protection by 400 to 1000 A fuses.



Change-of-direction sections

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





Interface connections

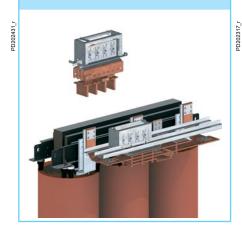
- Pre-fabricated interfaces connections can be incorporated into:
- □ Prisma P and Okken switchboards
 □ France Transfo dry-type transformers.

Universal supply connections

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

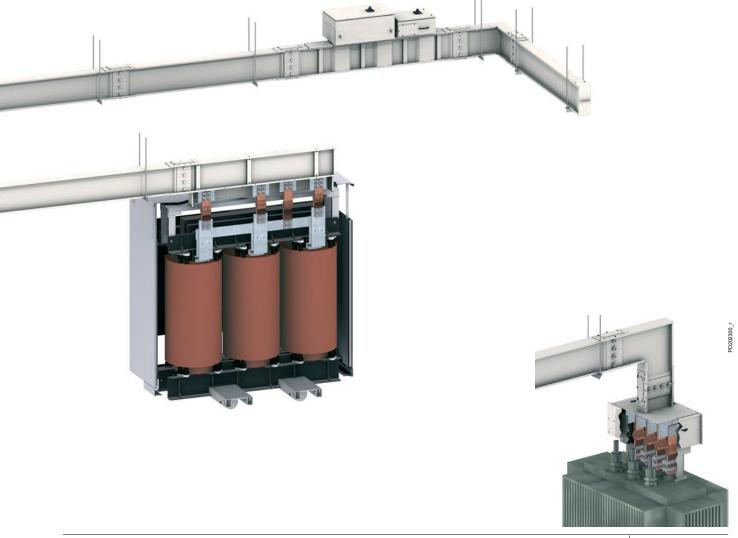
Horizontal fixing supports

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









Canalis KTA from 800 to 5000 A

For distribution to different levels **Rising mains**

Canalis KTA

Run sections

- Rating: 800 to 5000 A.
- Distribution sections, fixed or made to measure.
- Transport sections for going through floor slabs, made to measure 0.5 to 3 meter lengths.



Vertical fixing support

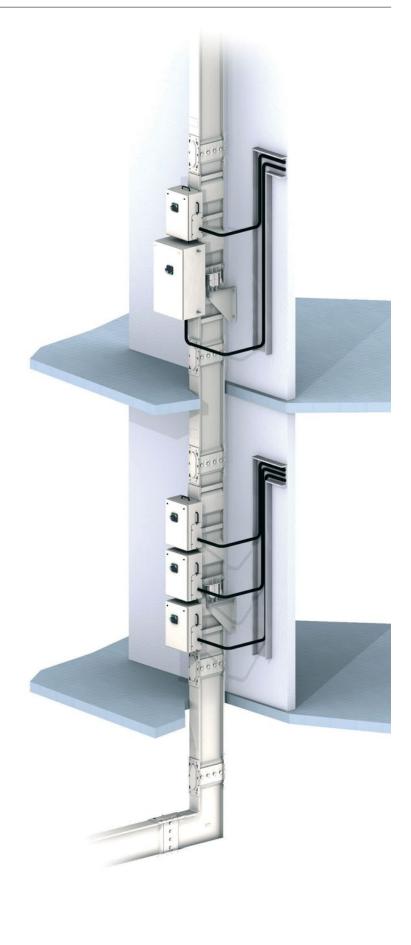
- For installing the busbar trunking vertically, they ensure:
- □ height and depth adjustment □ load sharing
- □ absorption of expansions, vibrations, etc.
- They can be fixed either to the floor, the wall or to a bracket.



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





Tap-off units from 25 to 1250 A

Rating (A)	Type of protection			
	Modular switchgear	Compact NS and NSX	Fuses	Compact NSX with
Plug-on tap-off u	nits			measurement and metering
25 to 100	63 A, 8 x 18 mm modules	For Compact NSX100 circuit breaker	25/50 A for NF/DIN fuses 32 A for BS fuses	
160	100 A, 12 x 18 mm modules	For Compact NSX160 circuit breaker	160 A for NF/DIN/BS fuses	
250 to 400	1 of the 1207 for directic predict			Fitted with DIN rail for Powerlogic
		For Compact NSX250 circuit breaker For Compact NSX400 circuit breaker	250/400 A for NF/DIN fuses	For Compact NSX250 circuit breaker
630		For Compact NSX630 circuit breaker	630 A for NF/DIN fuses	
Fixed tap-off unit	s			
400 and 630		For Compact NSX400 and NSX630 circuit breakers	400 to 630 A for DIN fuses ⁽¹⁾	
800, 1000 and 1250		For Compact NS800, NS1000 and	800 to 1000 A for DIN fuses ⁽¹⁾	
		NS1250 ⁽¹⁾ circuit breakers	250 and fuses (from 400 to 1000 A	V in 1804 and

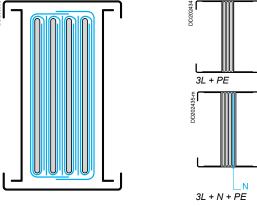
General

Canalis KTA

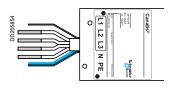
The Canalis KT busbar trunking is intended for high power distribution and transport in industrial, commercial and tertiary buildings.

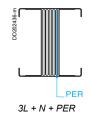
Assembly of prefabricated sections that adapt to all run configurations.

Run sections



The conductors are sandwiched together inside the metal casing.





■ 9 ratings are available, from 800 to 5000 A.

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

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

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

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

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

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

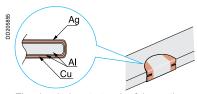
Further, it is used as the PE protective conductor (in accordance with NFC 15100 and IEC 60364).

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

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

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

Tap-off contact



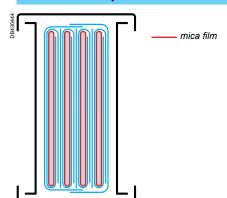
The electrical contact pads of the sections are made from bonded bimetallic aluminium/copper.

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
- aluminium / silver-plated copper bimetallic saddle welded to the live conductors.

Fire rated components

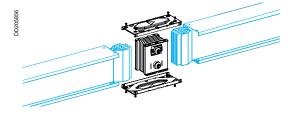


FT, FC and FP components are suitable for applications requiring continuity of service in case of fire. These components have the same cross section as the standard Canalis KT ones and are fully compatible and connectable.

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





The junction between sections is made using a joint block.

The joint block provides the following:

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

It provides simultaneous continuity between all conductors.

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

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

This operation is checked visually:

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

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

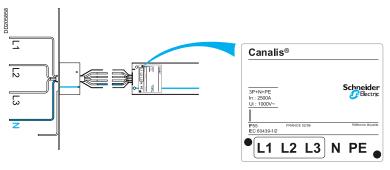
For dismantling or maintenance operations, the nut has a second head. The tightening torque is 6 daN.m.

All sections (apart from ER and EL feed units) are supplied with their joint block, delivered in a separate parcel.

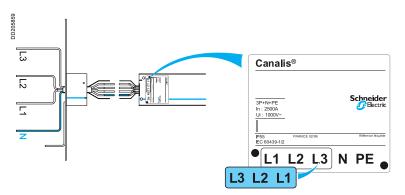
If the run has a feed unit (ER or EL) at each end, an additional joint block must be ordered.

Phase order

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



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



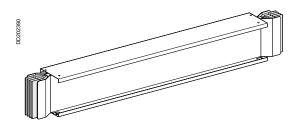
Run sections

Canalis KTA

Straight sections

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

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

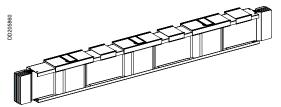


Sections with tap-off points for plug-on tap-off units -Type ED ED run sections are for current distribution.

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

These tap-off units can be plugged-on whilst live, but off-load.

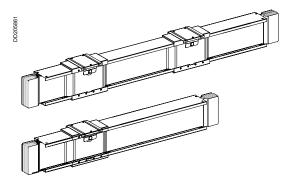
Available in fixed 2 and 4 metre lengths with 3 tap-off points on one side or made to measure from 2.5 to 3.5 metre.



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

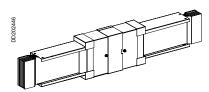
They use specific KT 400 to 1250 A tap-off units.

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



Other run sections Disconnectors and run protective devices

Other run sections



Expansion section - Type DB

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

Refer to the installation guide.

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



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

Available in a 1 metre length and is the same physical size as a transport section.

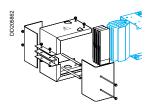
The TN version transposes the neutral.



■ The TP type transposes the phases.







Additional joint block - Type YA

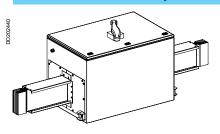
If the run has a feed unit (supplied without a joint block) at each end, an additional joint block must be ordered.

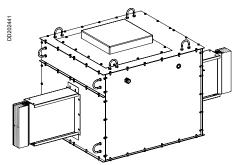
Each joint block is supplied with the necessary covers, nuts and bolts.

Run end cover - Type FA

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

Disconnectors and run protective devices





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

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

Supplied with:

- an auxiliary connection terminal
- lifting rings
- upstream and downstream terminal shields.

Colour: white RAL 9001, 100 % polyester paint on galvanized sheet steel. Refer to manufacturer's data for switchgear characteristics.

Fitted with a rotary handle, the tap-off unit can only be opened once the device has been switched off.

Run disconnector tap-off units - Type SL

Type SL for:

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

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

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

For circuit-breakers greater than 1600 A, consult the sales office.

Change of direction sections

Canalis KTA

Simple changes of direction

Elbows - Types LP and LC
To go up or down, to turn right or left:

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



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



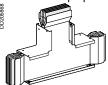
■ type LC, edgewise elbow available in fixed or made-to-measure lengths



■ type 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

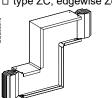
3-branch made-to-measure:

■ 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.



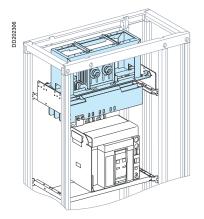
Connection sections

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

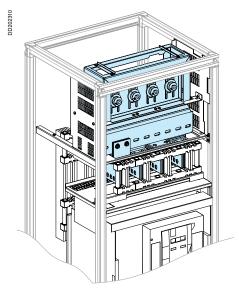
These sections provide installation flexibility combined with quick and simple assembly.

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

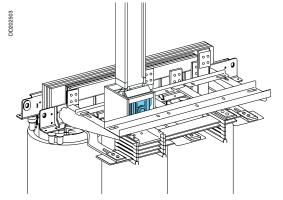
Connections via interface to Prisma P, Okken and Trihal



Prisma P switchboard.



Okken switchboard.

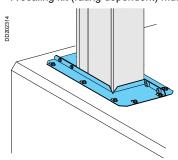


Direct connection to Trihal transformers and Prisma P & Okken switchboards. Supplied factory or panelbuilder assembled and tested to IEC 61439-1 and IEC 61439-6.

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

Joint block integrated into the interface.

A sealing kit (rating dependent) must be ordered.



Sealing kit

Prisma P and Okken switchboards

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

- Masterpact MTZ2/NW08 to NW40 or MTZ1/NT06 to NT16 circuit-breaker
- Compact NS630b to NS1600 circuit-breaker.

Possibility of switching the phases around.

France Transfo Trihal dry type transformers

For naturally ventilated or force ventilated transformers. Protection degree:

- IP00
- IP31.

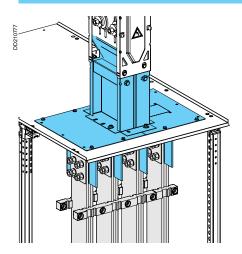
Secondary voltage: 410 V.

±15 mm adjustment in the 3 axes.

Connection sections

Canalis KTA

Universal connections to switchboards and oil immersed transformers

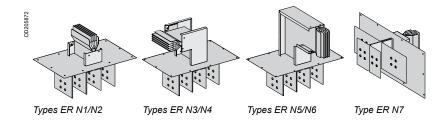


Feed units - Type ERThey allow the busbar trunking to be connected to a switchboard's busbar, or to the terminals of an oil immersed transformer, generator set, etc.

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

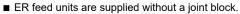
- or via the intermediary of a protective cover.

Vertical or horizontal incoming busbar trunking.

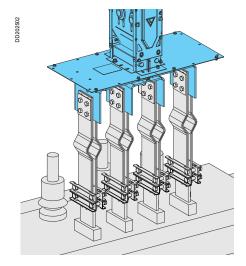


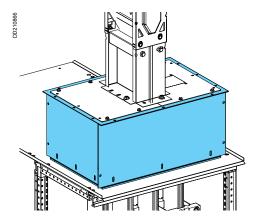
Connection:

- either directly to the busbar
- or by flexible bars and connection plates
- or by braids■ or by cables.



■ If the run has a feed unit at each end, an additional joint block must be ordered.

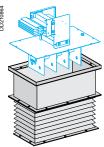




Protective covers - Types CS, CR, BC Protects the external part of the connection.

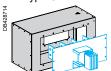
■ Type CS

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

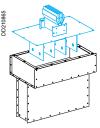


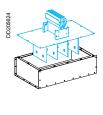
For a vertical incomer - Types CR1 to CR3
Made-to-measure rigid protective cover for ER N1 to N7 feed units.
They are height adjustable by ± 50 mm.

■ Type CR1 for a horizontal incomer.



■ Types CR2 and CR3 for a vertical incomer.





■ Types CR7 and CR8

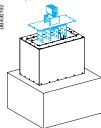
Protective covers for Minera oil immersed transformers.

Only for ER N1 to N6 feed units with a between centres distance of 150 or 170 mm depending on the rating.

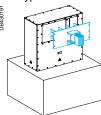
Fit directly onto the BT series transformer tanks.

Never use with HV porcelaine bushings.

☐ Type CR8 for a vertical incomer.



☐ Type CR7 for a horizontal incomer.



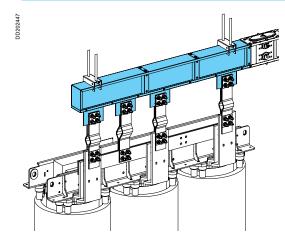
□ Type BC

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

Connection sections

Canalis KTA

Universal connections to dry type transformers

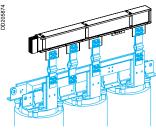


Feed units - Type EL

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

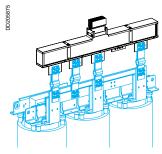
The junction with the busbar trunking is achieved:

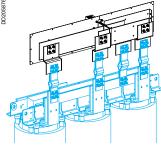
either from the side



Type EL N1/N2.

or from the centre.





Type EL N3/N4.

Type EL N5.

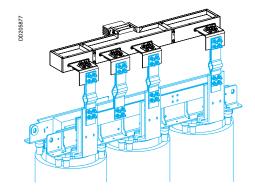
They are of similar design to straight transport sections and can be installed edgewise or flat.

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

The following must be specified at the time of order:

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

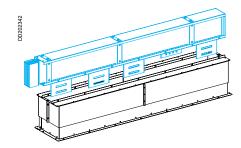
The link between the transformer terminals and the connection section is either by flexible bar connection plates or by braids.



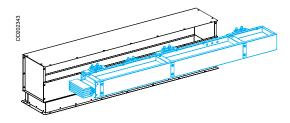
Protective covers - Type CR4 to CR6
These protect the connections with an IP31 casing when connecting to a transformer.

They are height adjustable by ±50 mm.

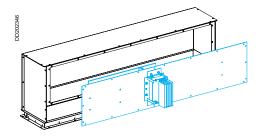
■ Type CR4
Protective cover for EL N1 to N4 feed units.
Edgewise assembly.



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



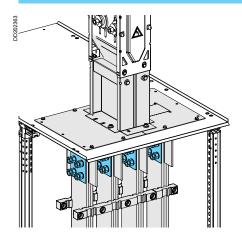
■ Type CR6
Protective cover for EL N5 feed unit.
Edgewise assembly.



Connection accessories

Canalis KTA

Accessories for direct connection to the switchboard



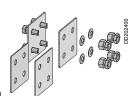
The conductors of ER N1 to N6 feed units are connected directly to the switchboard busbars.

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

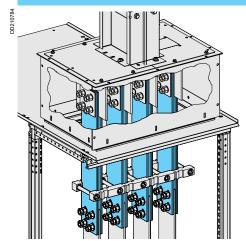
Make-up of kit:

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

Order a set per feed unit whatever the rating.



Switchboard connection accessories using connection plates



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

The YC are flexible bars made up of 5 copper sheets of 1 x 100/120 mm or of 5 bimetal aluminium/copper sheets 1.4 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 250 to 600 mm with 4 oblong holes at the ER unit end.

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

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8	00	

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

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



Nuts and bolts

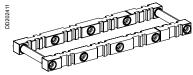
The connection plates are fixed to the feed unit using the YB3 nut and bolt kit, made up of:

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



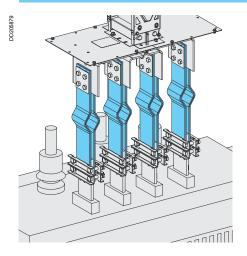
Clamps

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



Insulation See page 43.

Transformer connections - Types YC, YT



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

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

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

Connection plates

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

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

They can be fitted to the transformer side:

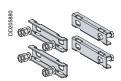
- either using bar clamps (no drilling),
- or drilled and bolted (to be carried out on site).



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.



Braids

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



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

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

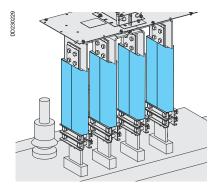
Insulation

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

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

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

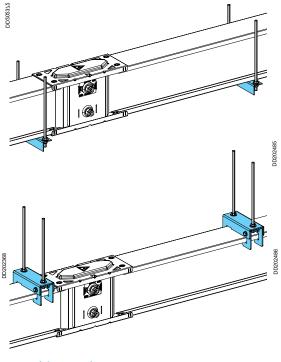




Supports and fixings

Canalis KTA

Horizontal supports



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.



- 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).

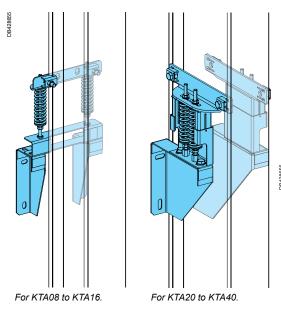


Fixing bracket

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



Vertical supports



The ZA5 is for supporting vertical sections.

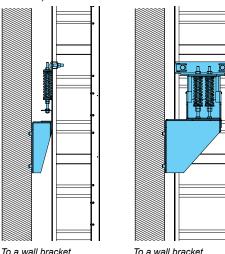
They fix sections of a vertical run to the building's structure.

This type of fixing support has the following advantages:

- assembly:
- □ to a wall
- □ to a wall bracket
- □ to the floor

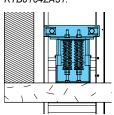
KTB0164ZA5.

- 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



To a wall bracket KTB0204ZA5● to KTB0404ZA5●



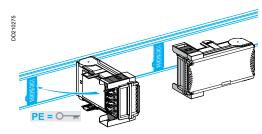


To the floor KTB0204ZA51 to KTB0404ZA51.

Tap-off units

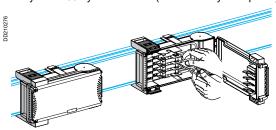
The tap-off units are used to instantly connect loads or secondary runs, and comply with installation standards and regulations (IEC 60364), whatever the earthing system (TT, TNS, TNC or IT).

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



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

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



Safety and operation

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

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

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

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

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

Characteristics of tap-off units up to 100 A

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

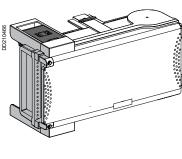
Other characteristics: cable gland drilling zone, stainless steel screws and the door can be lead sealed.

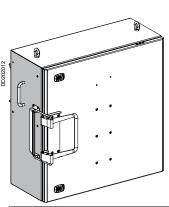
Characteristics of tap-off units from 160 to 400 A

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

Other characteristics:

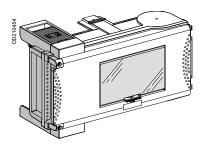
- unhingeable door (120° opening hinges)
- vertically bevelled polyurethane seals with a double fold for increased rigidity (similar design to the Sarel Spatial 3D enclosures)
- 25 mm grill type gland plates for a maximum access area.





Plug-on tap-off units for circuit breakers

Canalis KTA



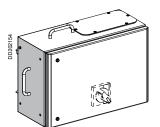
Isolator tap-off units for modular switchgear

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:

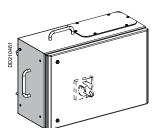
- 63 A nominal current for 8 modules
- 100 A nominal current for 12 modules (accepts C120 circuit breakers).



Tap-off units for NG type modular switchgearThese 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).

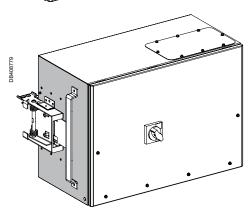


Isolator tap-off units for Compact NSX circuit breakers

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

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



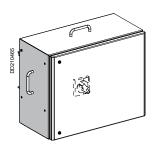
Measurement and metering isolator tap-off units

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).



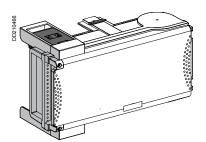
- a mounting plate for a Compact NSX250 or 400 A circuit breaker with an extended rotary handle and a Compact NSX current transformer module (TI unit)
- a DIN rail for installing a Powerlogic PM810 measurement unit, a set of terminals, etc.

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



Plug-on tap-off units for fuses

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

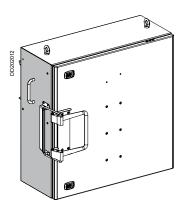


- Plastic tap-off units

 Fitted with carriers for:

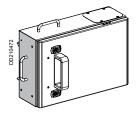
 50 to 100 A cylindrical NF fuses

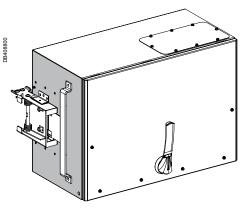
 25 to 63 A DIN screwed fuses
- 100 A DIN blade fuses
- 32 to 80 A BS screwed fuses.



Steel tap-off units Fitted with carriers for:

- 160 to 400 A NF/DIN blade fuses
- 160 A BS screwed fuses
- fuses disconnector 630 A.





Fixed tap-off units for circuit breakers

Canalis KTA

Safety and operation

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

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

The door can only be opened once the load has been isolated (rotary handle). The bolt can only be tightened or untightened with the door open.

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

Characteristics of tap-off units from 400 to 1250 A

- Colour:
- □ white (RAL 9001) body
- Material: galvanized sheet steel.
- Other characteristics:
- □ the cables exit laterally through 2 aluminium plates (to be drilled by the installation contractor)
- □ cabling space can be increased by using the cable box supplied with the tap-off
- □ the door is fixed using 6 captive M6 screws and can be completely removed to facilitate cabling.



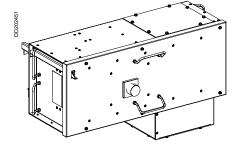
These tap-off units are used to supply loads or secondary runs (e.g. medium power distribution using Canalis KS).

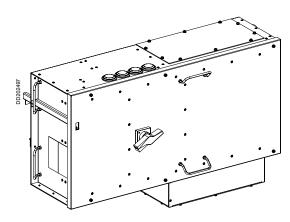
They are fitted to specific EB type straight lengths.

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.

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



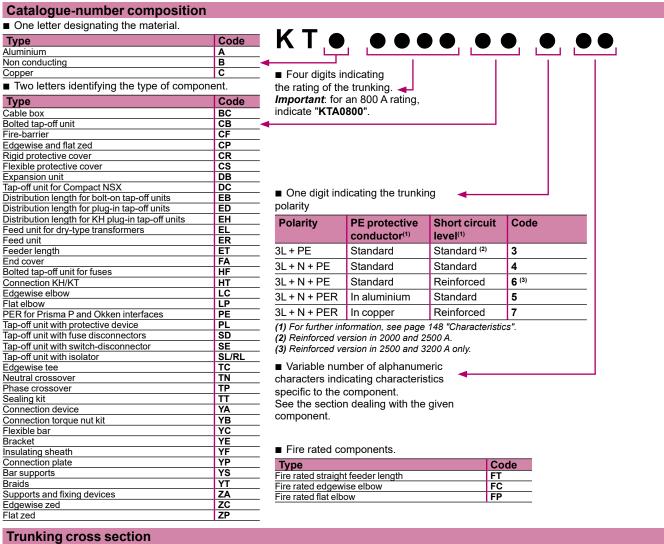


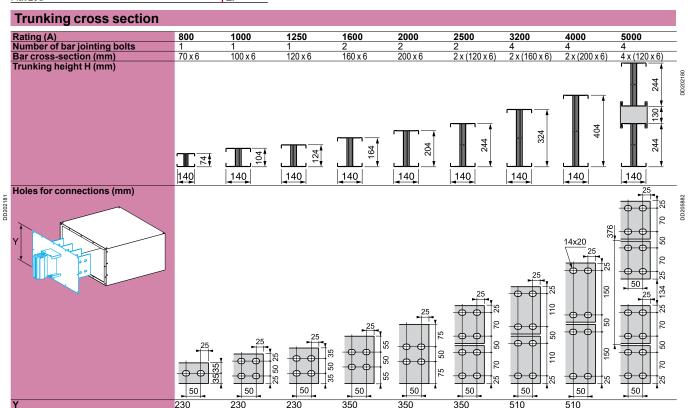
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Catalogue-number coding

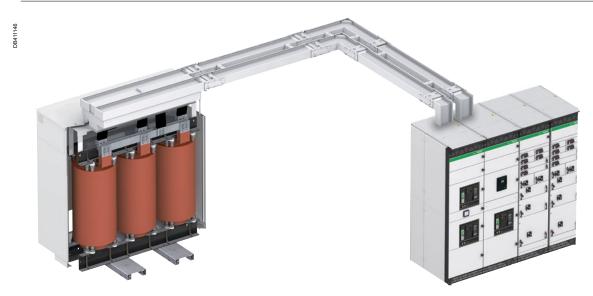
Canalis KTA



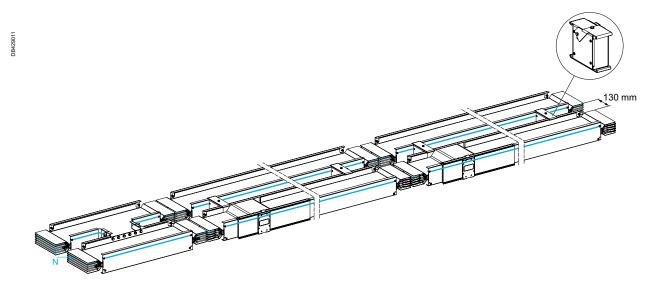


Canalis KTA 5000 A

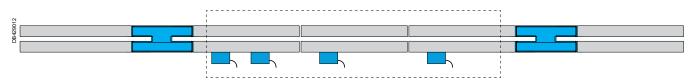
Canalis KTA



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



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



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

Run components IP55

Canalis KTA 800 to 4000

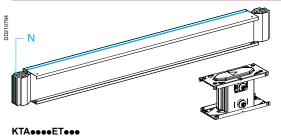
OrderingComplete the catalogue number by replacing "••••" by the rating. Important:

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

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

Rating

ET - Straight feeder lengths

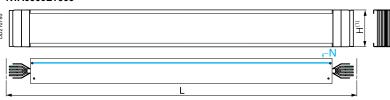


Туре	Length	Cat. no.		
	"L" (mm)	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	2000	KTA•••ET320	KTA•••ET420	KTA••••ET520
	4000	KTA•••ET340	KTA••••ET440	KTA••••ET540
Made to	500 to 1500	KTA•••ET31A	KTA•••ET41A	KTA••••ET51A
measure	1501 to 1999	KTA•••ET32B	KTA••••ET42B	KTA••••ET52B
	2001 to 2500	KTA•••ET32C	KTA••••ET42C	KTA••••ET52C
	2501 to 3000	KTA•••ET33D	KTA••••ET43D	KTA••••ET53D
	3001 to 3500	KTA••••ET33E	KTA•••ET43E	KTA••••ET53E
	3501 to 3999	KTA•••ET33F	KTA••••ET43F	KTA••••ET53F

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

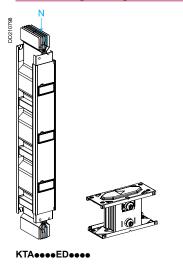
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced Isc, replace KTA2500ET4•• by KTA2500ET6•• and KTA3200ET4•• by KTA3200ET6••.

KTA



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

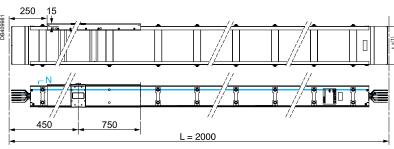
ED - Straight lengths for KS plug-in tap-off units



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

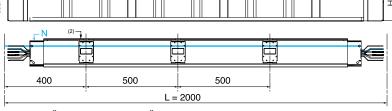
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ED5••• by KTA••••ED7•••. (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ED4••• by KTA2500ED6••• and KTA3200ED4••• by KTA3200ED6•••.

KTA••••ED•201



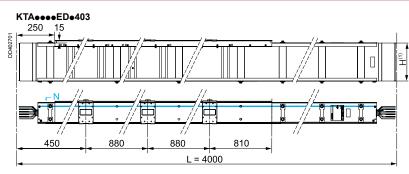
KTA••••ED••••

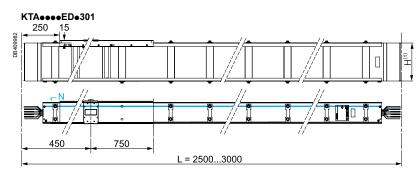


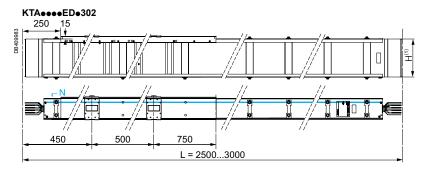


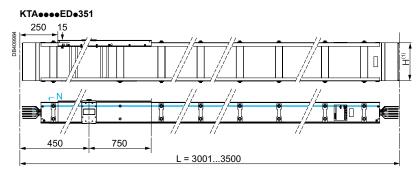
- (1) See the "Trunking cross-section" table page 54.
- (2) Tap-off units KTB630 •• • can not be installed at this outlet.

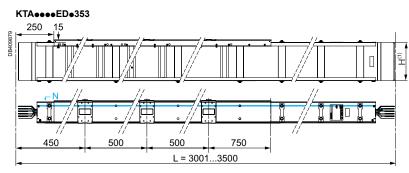
Straight lengths for KS plug-in tap-off units









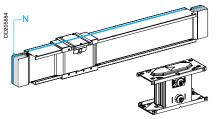


(1) See the "Trunking cross-section" table page 54.

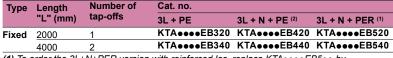
Run components IP55

Canalis KTA 800 to 4000

EB - Straight lengths for bolted tap-off units



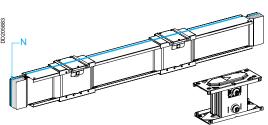
KTA••••EB•20

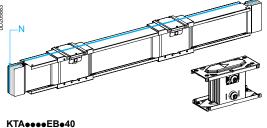


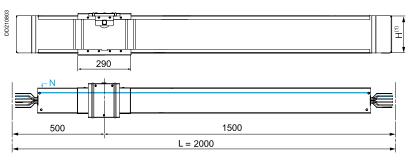
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••EB5•• by KTA•••EB7••

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

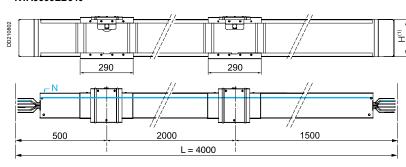
KTA••••EB•20







KTA••••EB•40



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

Rating (A)		800(1)	1000	1250	1600	2000	2500	3200	4000	5000
Weight (kg/m)	3L + PE	12	14	16	19	22	25	31	38	50
	3L + N + PE	13	16	18	22	26	30	37	45	60
	3L + N + PER	15	19	21	26	31	36	46	56	72
Width W (mm)		140	140	140	140 g	140 to 1	140	327	140	140

Ordering

Complete the catalogue number by replacing the " $\bullet \bullet \bullet \bullet$ " with the rating.

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

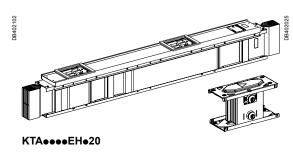
Example: a transport section 800 A, length 4 m.

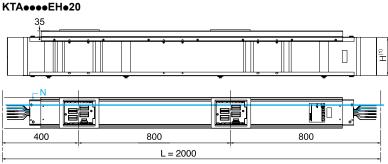
Catalogue number for 3L+N+PE: KTA0800EH440.

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

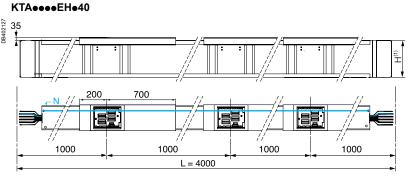
Туре	Length	Number of	Cat. no. (4)		
	"L" (mm)	tap-offs	3L+PE	3L + N + PE (2)	3L + N + PER (3)
Fixed	2000	2	KTA••••EH320	KTA••••EH420	KTA••••EH520
	4000	3	KTA	KTA••••EH440	KTA••••EH540

- (1) See the "Trunking cross-section" table page 54.
- (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EH4•• by KTA2500EH6•• and KTA3200EH4•• by KTA3200EH6••.
- (3) To order the 3L+N+PER 2500 A and 3200 A version with reinforced lsc, replace
- KTA2500EH5•• by KTA2500EH7•• and KTA3200EH5•• by KTA3200EH7••.
- (4) Not available for KTA5000.





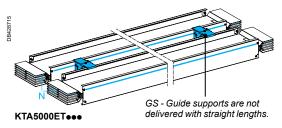
KTA••••EH•40



Run components IP55

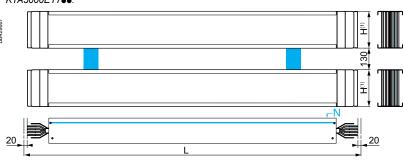
Canalis KTA 5000

ET - Straight feeder lengths



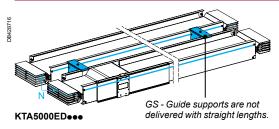
Туре	Length "L"	Cat. no.			
	(mm)	3L + PE	3L + N + PE	3L + N + PER (1)	
Fixed	2000	KTA5000ET320	KTA5000ET420	KTA5000ET520	
rixeu	4000	KTA5000ET340	KTA5000ET440	KTA5000ET540	
Made to	500 to 1500	KTA5000ET31A	KTA5000ET41A	KTA5000ET51A	
measure	1501 to 1999	KTA5000ET32B	KTA5000ET42B	KTA5000ET52B	
	2001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

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



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

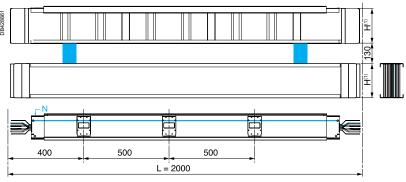
ED - Straight lengths for KS plug-in tap-off units



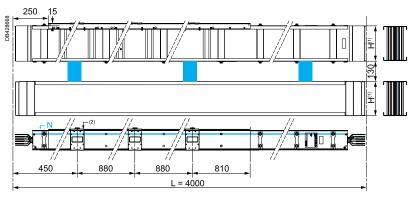
Туре	Length	Number of	Cat. no.		
	"L" (mm)	tap-offs	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	2000	3	KTA5000ED3203	KTA5000ED4203	KTA5000ED5203
	4000	3	KTA5000ED3403	KTA5000ED4403	KTA5000ED5403

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

KTA••••ED•203



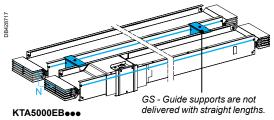
KTA••••ED•403

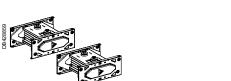


- (1) See the "Trunking cross-section" table page 54.
 (2) Tap-off units KTB630••••• can not be installed at this outlet.



EB - Straight lengths for bolted tap-off units

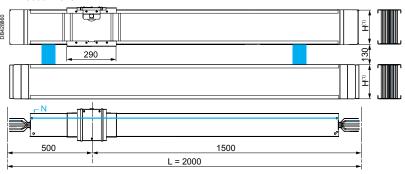




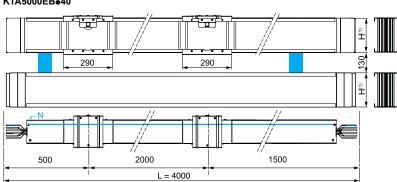
Туре	Length	Number of	Cat. no.		
	"L" (mm)	tap-offs	3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	2000	1	KTA5000EB320	KTA5000EB420	KTA5000EB520
	4000	2	KTA5000EB340	KTA5000EB440	KTA5000EB540

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

KTA5000EB•20



KTA5000EB•40



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

Additional run components IP55

Canalis KTA 800 to 4000

Ordering

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

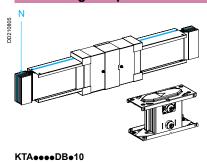
- for the 800 A rating, add a "0" in the catalogue number : **KTA0800**
- add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 1250 A neutral crossover length,

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

Rating

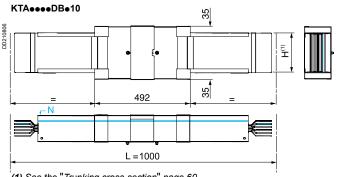
DB - Straight expansion unit



Туре	Length "L"	Cat. no.			
	(mm)	3L + PE	3L + N + PE (2)	3L + N + PER (1)	
Fixed	1000	KTA••••DB310	KTA••••DB410	KTA••••DB510	

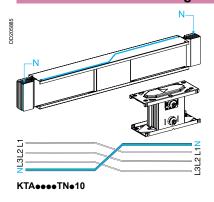
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••DB510 by KTA••••DB710.

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



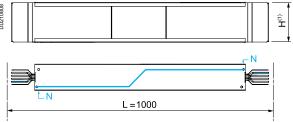
(1) See the "Trunking cross-section" page 60.

TN - Neutral crossover length



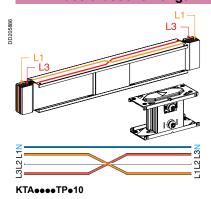
Туре	Length "L" (mm)	Cat. no. 3L + N + PE
Fixed	1000	KTA••••TN410
Fixed	1000	KTA••••TN610

KTA••••TN•10



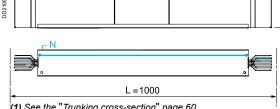
(1) See the "Trunking cross-section" page 60.

TP - Phase crossover length

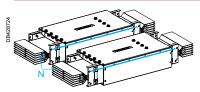


Туре	Length "L"	Cat. no.
	(mm)	3L + N + PE
Fixed	1000	KTA••••TP410
Fixed	1000	KTA••••TP610

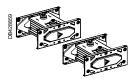
KTA••••TP•10



DB - Straight expansion unit

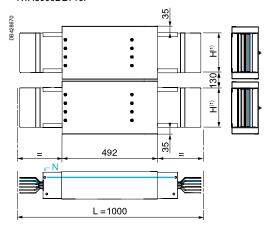


KTA5000DB•10



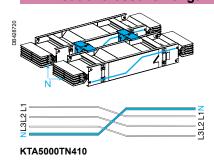
I	Туре	Length "L"	Cat. no.		
		(mm)	3L + PE	3L + N + PE	3L + N + PER (1)
į	Fixed	1000	KTA5000DB310	KTA5000DB410	KTA5000DB510

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



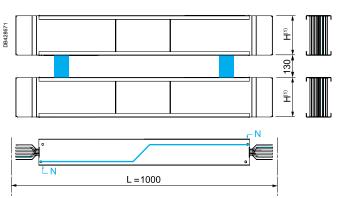
(1) See the "Trunking cross-section" page 60.

TN - Neutral crossover length



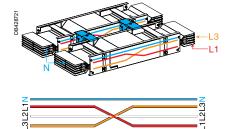


Туре	Length "L"	Cat. no. (1)
	(mm)	3L + N + PE
Fixed	1000	KTA5000TN410



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

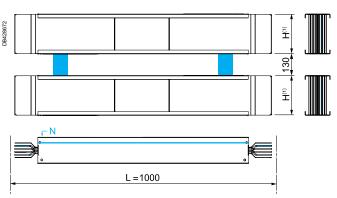
TP - Phase crossover length



K1A50001P410	



Туре	Length "L"	Cat. no. (1)
	(mm)	3L + N + PE
Fixed	1000	KTA5000TP410



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

Additional run components IP55

Canalis KTA 800 to 5000

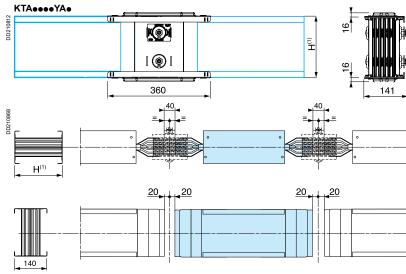
YA - Additional jointing units



KTA••••YA•

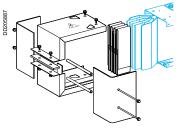
Туре	Cat. no. (2)				
	3L + PE	3L + N + PE	3L + N + PER		
Version code (1)	3	4 or 6	5	7	
Jointing unit	KTA••••YA3	KTA••••YA•	KTA••••YA5	KTA•••YA7	

- (1) See catalogue-number coding page 50.
- (2) References KTA5000YA• are made of 2 references KTA2500YA•.



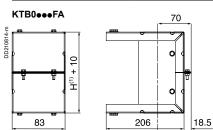
(1) See the "Trunking cross-section" table below.

FA - End covers



ΚT	В	••	•	FΑ

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



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

Rating (A)		800(1)	1000	1250	1600	2000	2500	3200	4000	5000
Weight (kg/m)	3L + PE	12	14	16	19	22	25	31	38	50
	3L + N + PE	13	16	18	22	26	30	37	45	60
	3L + N + PER	15	19	21	26	31	36	46	56	72
Height H (mm) Width W (mm)										244

140

140

140

140

140

140

140

140 140

140

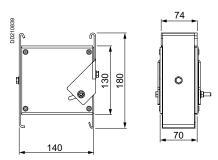
GS - Guide support



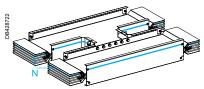
2 guide supports⁽¹⁾ are required to linked all KTA2500 elements together in order to create the KTA5000 run.

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

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



HC - Edgewise H

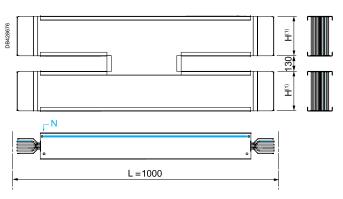


KTA5000HC•10



Туре	Length "L"	Cat. no.		
	(mm)	3L + PE	3L + N + PE	3L + N + PER (1)
Fixed	1000	KTA5000HC310	KTA5000HC410	KTA5000HC510

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000HC510 by KTA5000HC710.



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

Elbow components for changing direction

IP55

Canalis KTA 800 to 4000

Ordering

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

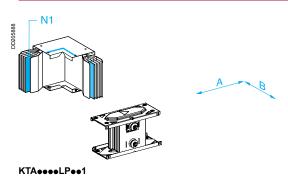
- for the 800 A rating, add a "0" in the catalogue number : **KTA0800**
- add the dimensions of the selected component as a technical comment.

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

KTA2000LP4B1, A = 300, B = 650.

Rating

LP - Flat elbows

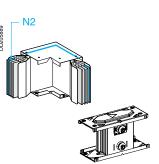


Туре	Position of neutral	Cat. no.		
		3L + PE	3L + N + PE (2)	3L + N + PER (1)
2 fixed branches	N1	KTA••••LP3A1	KTA••••LP4A1	KTA••••LP5A1
	N2	KTA••••LP3A2	KTA••••LP4A2	KTA••••LP5A2
1 made to measure	N1	KTA••••LP3B1	KTA••••LP4B1	KTA••••LP5B1
short branche	N2	KTA••••LP3B2	KTA••••LP4B2	KTA••••LP5B2
1 made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

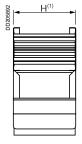
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••LP5•• by KTA••••LP7••.

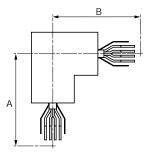
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500LP4•• by KTA2500LP6•• and KTA3200LP4•• by KTA3200LP6••.

KTA









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

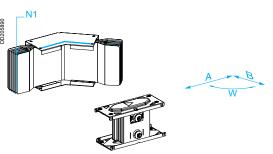
Dimensions

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

KTA••••LP••2

62

LP•C - Flat elbows with made to measure angles

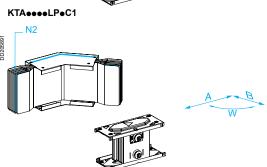


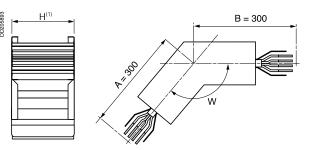
Туре	Position of	Cat. no.		
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER(1)
Made to	N1	KTA••••LP3C1	KTA••••LP4C1	KTA••••LP5C1
measure angle	N2	KTA••••LP3C2	KTA••••LP4C2	KTA••••LP5C2

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••LP5C• by KTA••••LP7C•.

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

KTA••••LP•C•





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

Dimensions

Туре	Rating (A)	Dimensions (mr	Dimensions (mm)				
		Α	В	W			
Made to measure	All	300	300	91° to 179°			

LC - Edgewise elbows

KTA••••LP•C2

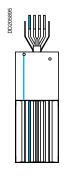


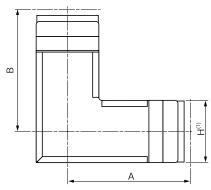
Туре	Cat. no.						
	3L + PE	3L + N + PE (2)	3L + N + PER (1)				
2 fixed branches	KTA••••LC3A	KTA••••LC4A	KTA•••LC5A				
1 made to measure short branche	KTA••••LC3B	KTA••••LC4B	KTA••••LC5B				
1 made to measure long branche	KTA••••LC3D	KTA••••LC4D	KTA••••LC5D				
2 made to measure branches	KTA••••LC3E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

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

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

KTA••••LC••





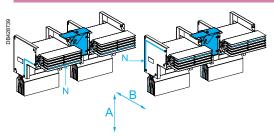
(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

Elbow components for changing direction

IP55

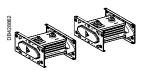
Canalis KTA 5000

LP - Elbows



KTA5000LP●●1

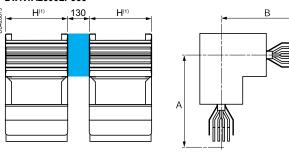
KTA5000LP●●2



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

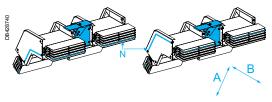
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000LP5•• by KTA5000LP7••.

2 x KTA2500LP•••



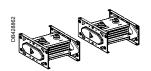
(1) See the "Trunking cross-section" table page 67 and dimensions page 62.

LP●C - Flat elbows with made to measure angles



KTA5000LPeC1

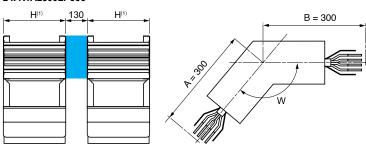
KTA5000LP⊕C2



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

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000LP5Cullet by KTA5000LP7Cullet.

2 x KTA2500LP•••



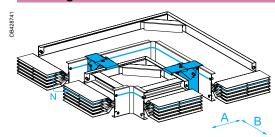
(1) See the "Trunking cross-section" table page 67.

Dimensions

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

Canalis KTA 5000

LC - Edgewise elbows

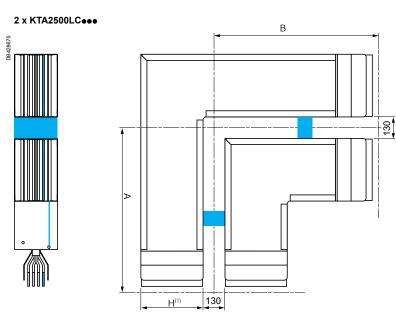


KTA5000LC•••



Cat. no. (2)					
3L + PE	3L + N + PE 3L + N + PER				
KTA5000LC3A	KTA5000LC4A	KTA5000LC5A			
KTA5000LC3B	KTA5000LC4B	KTA5000LC5B			
	3L + PE KTA5000LC3A				

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000LC5 \bullet by KTA5000LC7 \bullet .



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

Elbow components for changing direction

IP55

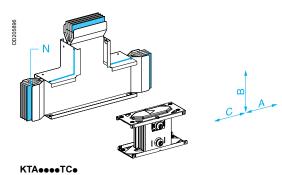
Canalis KTA 800 to 5000

_					
- I)	im	Δn	161	n	n

Туре	Rating (A)	Dimensions (n	nm)
		Α	В
2 fixed branches	800(1)	275	275
	1000	290	290
	1250	300	300
	1600	320	320
	2000	340	340
	2500	360	360
	3200	400	400
	4000	440	440
	5000	548	548
made to	800(1)	275	276 to 774
neasure short		276 to 774	275
ranche	1000	290	291 to 789
		291 to 789	290
	1250	300	301 to 799
		301 to 799	300
	1600	320	321 to 819
	***	321 to 819	320
	2000	340	341 to 839
		341 to 839	340
	2500	360	361 to 859
	2000	361 to 859	360
	3200	400	401 to 899
	5200	401 to 899	400
	4000	440	441 to 939
	4000	441 to 939	440
	5000	548	549 to 1047
	5000		548
1 - 4 -	000(1)	549 to 1047	
made to neasure long	800(1)	275	775 to 1000
ranche	1000	775 to 1000	275
	1000	290	790 to 1000
	1050	790 to 1000	290
	1250	300	800 to 1000
		800 to 1000	300
	1600	320	820 to 1100
		820 to 1100	320
	2000	340	840 to 1100
		840 to 1100	340
	2500	360	860 to 1100
		860 to 1100	360
	3200	400	900 to 1400
		900 to 1400	400
	4000	440	940 to 1400
		940 to 1400	440
made to	800(1)	276 to 745	276 to 1000
easure		276 to 1000	276 to 745
ranches	1000	291 to 730	291 to 1000
		291 to 1000	291 to 730
	1250	301 to 720	301 to 1000
		301 to 1000	301 to 720
	1600	321 to 700	321 to 1100
		321 to 1100	321 to 700
	2000	341 to 680	341 to 1100
		341 to 1100	341 to 680
			361 to 1100
	2500	งตา เด กทบ	
	2500	361 to 660 361 to 1100	
		361 to 1100	361 to 660
	3200	361 to 1100 401 to 620	361 to 660 401 to 1400
		361 to 1100	361 to 660

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

TC - Edgewise tee

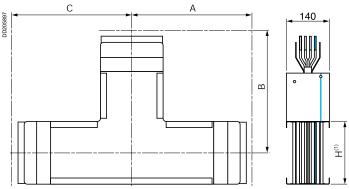


Туре	Cat. no. (3)		
	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	KTA••••TC3	KTA••••TC4	KTA••••TC5

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••TC5 by KTA••••TC7.

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

KTA••••TC•



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

Dimensions

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

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

Rating (A)		800(1)	1000	1250	1600	2000	2500	3200	4000	5000
Weight (kg/m)	3L + PE	12	14	16	19	22	25	31	38	50
	3L + N + PE	13	16	18	22	26	30	37	45	60
	3L + N + PER	15	19	21	26	31	36	46	56	72
Height H (mm) Width W (mm)		140	140	140	140	140 FOR	140 140	140	140	244 130 244

Zed components for changing direction

IP55

Canalis KTA 800 to 4000

Ordering

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

Important:

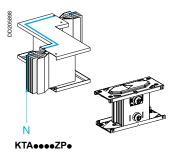
for the 800 A rating, add a "0" in the catalogue number: KTA0800

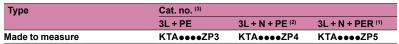
add the dimensions of the selected component as a technical comment.

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

Rating

ZP - Flat zed units

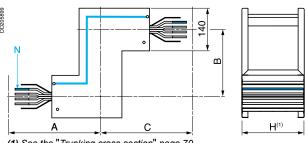




(1) To order the 3L+N+PER version with reinforced Isc, replace KTA••••ZP5 by KTA••••ZP7 (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced Isc, replace KTA2500ZP4 by KTA2500ZP6 and KTA3200ZP4 by KTA3200ZP6.

(3) References KTA5000ZP• are made of 2 references KTA2500ZP•. See details page 69.

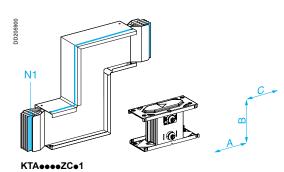
KTA



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

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

ZC - Edgewise zed units



N2	

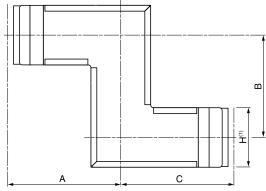
Schneider Electric

. 7	Position of	Cat. no.		
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER(1)
Made to	N1	KTA••••ZC31	KTA••••ZC41	KTA••••ZC51
measure	N2	KTA••••ZC32	KTA••••ZC42	KTA••••ZC52

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ZC5• by KTA••••ZC7•.

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ZC4• by KTA2500ZC6• and KTA3200ZC4• by KTA3200ZC6•.

KTA••••ZC••



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

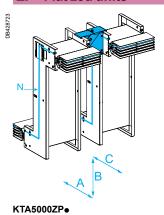
(1) See the "Trunking crosssection" page 70.
(2) For the 800 A rating, indicate "KTA0800".

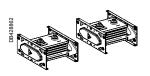
140

KTA••••ZC•2

Canalis KTA 5000

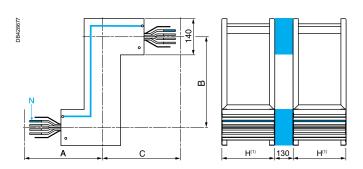
ZP - Flat zed units





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

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

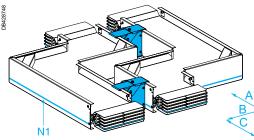


(1) See the "Trunking cross-section" page 70.

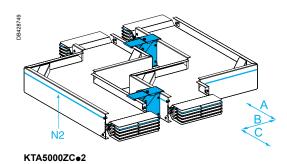
Dimensions

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

ZC - Edgewise zed units



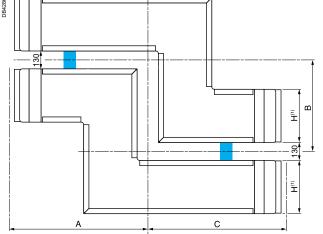
K.	TA:	50	00)Z(C•1

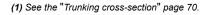


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Туре	Position of	Cat. no. (2)				
	neutral	3L + PE	3L + N + PE	3L + N + PER (1)		
Made to	N1	KTA5000ZC31	KTA5000ZC41	KTA5000ZC51		
measure	N2	KTA5000ZC32	KTA5000ZC42	KTA5000ZC52		

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000ZC5 \bullet by KTA5000ZC7 \bullet .





Dimensions

Rating (A)	Dimensio	Dimensions (mm)						
	Α	В	С					
5000	548	90 to 719	548					

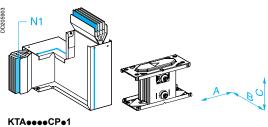
140

Zed components for changing direction

IP55

Canalis KTA 800 to 4000

CP - Edgewise and flat zed units

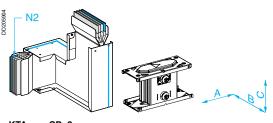


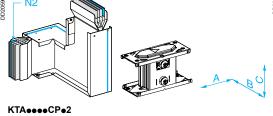
Type Position of neutral	Position of	Cat. no.				
	3L + PE	3L + N + PE (2)	3L + N + PER (1)			
Made to	N1	KTA••••CP31	KTA••••CP41	KTA•••CP51		
measure	N2	KTA••••CP32	KTA • • • • CP42	KTA•••CP52		
	N3	KTA•••CP33	KTA••••CP43	KTA•••CP53		
	N4	KTA••••CP34	KTA•••CP44	KTA • • • • CP54		

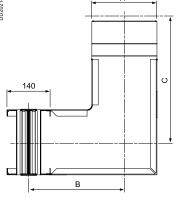
(1) To order the 3L+N+PER version with reinforced Isc, replace KTA••••CP5• by KTA••••CP7•.

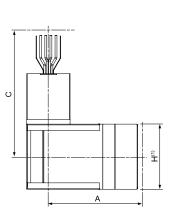
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500CP4• by KTA2500CP6• and KTA3200CP4• by KTA3200CP6•.

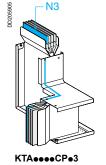
KTA••••CP•1 and KTA••••CP•2







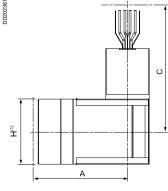


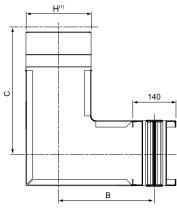


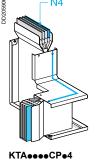














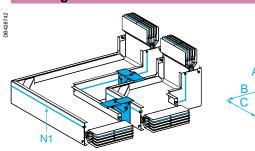
Dimensions

Rating (A)	Dimens	Dimensions (mm)					
	Α	В	С				
800(2)	300	195 to 574	275				
1000	300	210 to 589	290				
1250	300	220 to 599	300				
1600	300	240 to 619	320				
2000	300	260 to 639	340				
2500	300	280 to 659	360				
3200	300	320 to 699	400				
4000	300	360 to 739	440				

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

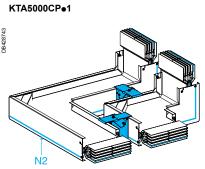
Trunking cro	oss-section									
Rating (A)		800(1)	1000	1250	1600	2000	2500	3200	4000	5000
Weight (kg/m)	3L + PE	12	14	16	19	22	25	31	38	50
	3L + N + PE	13	16	18	22	26	30	37	45	60
	3L + N + PER	15	19	21	26	31	36	46	56	72
Height H (mm) Width W (mm)		140	140 25 25	140	140	50Z TO	140 140	354	140	244 130 244 130 244
	(1) Important: for the 800 A rating, indicate "KTA0800".									

CP - Edgewise and flat zed units



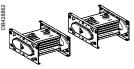
Туре	Position of	Cat. no. (2)				
	neutral	3L + PE	3L + N + PE	3L + N + PER (1)		
Made to	N1	KTA5000CP31	KTA5000CP41	KTA5000CP51		
measure	N2	KTA5000CP32	KTA5000CP42	KTA5000CP52		
	N3	KTA5000CP33	KTA5000CP43	KTA5000CP53		
	N4	KTA5000CP34	KTA5000CP44	KTA5000CP54		

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000CP5• by KTA5000CP7•.





KTA5000CP•2

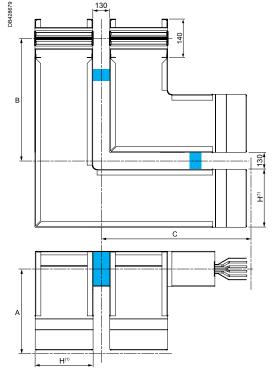


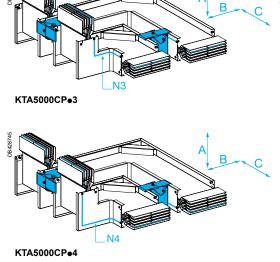


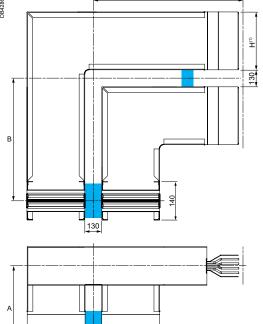
(1) See the "Trunking cross-section" page 70.

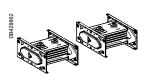
Dimensions

Rating (A)	Dimensions (mm)						
	Α	В	С				
5000	300	169 to 917	5/18				









Catalogue numbers and dimensions

Canalis KTA 800 to 4000

Fire rated straight feeder lengths

IP55

Compliant with the IEC 60331

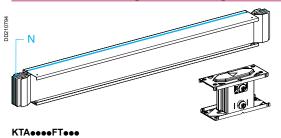
OrderingComplete the catalogue number by replacing "••••" by the rating. Important:

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

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

Rating

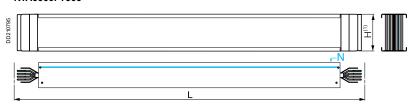
FT - Fire rated straight feeder lengths



Туре	Length	Cat. no.				
	"L" (mm)	3L + PE	3L + N + PE (2)	3L + N + PER (1)		
Fixed	2000	KTA•••FT320	KTA•••FT420	KTA•••FT520		
	4000	KTA•••FT340	KTA••••FT440	KTA•••FT540		
Made to	500 to 1500	KTA••••FT31A	KTA••••FT41A	KTA••••FT51A		
measure	1501 to 1999	KTA•••FT32B	KTA••••FT42B	KTA••••FT52B		
	2001 to 2500	KTA•••FT32C	KTA•••FT42C	KTA•••FT52C		
	2501 to 3000	KTA•••FT33D	KTA••••FT43D	KTA•••FT53D		
	3001 to 3500	KTA•••FT33E	KTA•••FT43E	KTA•••FT53E		
	3501 to 3000	KTA a a a ET33E	KTA a a a ET/3E	KTA a a a ET53E		

3501 to 3999 KTA••••FT33F KTA••••FT43F KTA•••
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••FT5•• by KTA••••FT7••.
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500FT4•• by KTA2500FT6•• and KTA3200FT4•• by KTA3200FT6••.

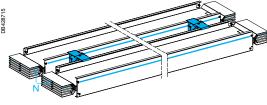
KTA••••FT•••



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

Canalis KTA 5000

FT - Fire rated straight feeder lengths

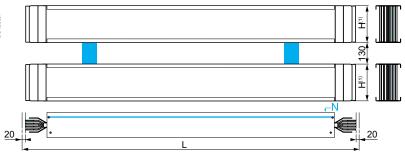


KTA	5000F	T•••
-----	-------	------



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

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000FT5. by KTA5000FT7●●.



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

Fire rated flat elbows

IP55

Compliant with the IEC 60331

Canalis KTA 800 to 4000

Ordering

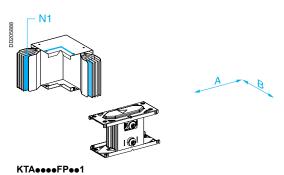
Complete the catalogue number by replacing "••••" by the rating.

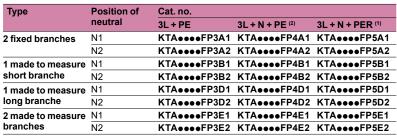
- for the 800 A rating, add a "0" in the catalogue number: **KTA0800** add the dimensions of the selected component as a technical comment.

Example: the catalogue number of a 2000 A flat elbow, N1, 3L + N + PE with dimensions A = 300 mm and B = 650 mm is: KTA2000FP4B1, A = 300, B = 650.

Rating

FP - Fire rated flat elbows

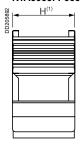


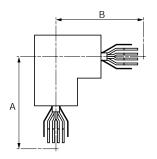


(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••FP5•• by

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

KTA•••FP•••



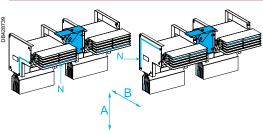


(1) See the "Trunking cross-section" table page 70 and dimensions page 66.

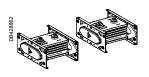
KTA•••FP••2

Canalis KTA 5000

FP - Fire rated flat elbows



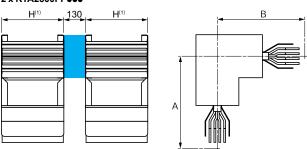
KTA5000FP●●1	KTA5000FP●●
(IASUUUFF •• I	KIASUUUFF



Туре	Position of	Cat. no.				
	neutral	3L + PE	3L + N + PE	3L + N + PER (1)		
2 fixed branches	N1	KTA5000FP3A1	KTA5000FP4A1	KTA5000FP5A1		
	N2	KTA5000FP3A2	KTA5000FP4A2	KTA5000FP5A2		
1 made to	N1	KTA5000FP3B1	KTA5000FP4B1	KTA5000FP5B1		
measure short branche	N2	KTA5000FP3B2	KTA5000FP4B2	KTA5000FP5B2		
1 made to	N1	KTA5000FP3D1	KTA5000FP4D1	KTA5000FP5D1		
measure long branche	N2	KTA5000FP3D2	KTA5000FP4D2	KTA5000FP5D2		
2 made to	N1	KTA5000FP3E1	KTA5000FP4E1	KTA5000FP5E1		
measure branches	N2	KTA5000FP3E2	KTA5000FP4E2	KTA5000FP5E2		

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

2 x KTA2500FP • • •



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

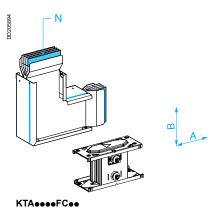
Fire rated edgewise elbows

IP55

Compliant with the IEC 60331

Canalis KTA 800 to 4000

FC - Fire rated edgewise elbows

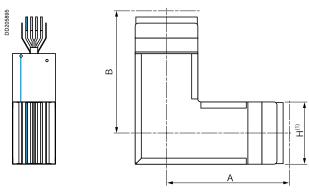


Туре	Cat. no.			
	3L + PE	3L + N + PE (2)	3L + N + PER (1)	
2 fixed branches	KTA•••FC3A	KTA••••FC4A	KTA•••FC5A	
1 made to measure short branche	KTA•••FC3B	KTA••••FC4B	KTA•••FC5B	
1 made to measure long branche	KTA•••FC3D	KTA••••FC4D	KTA•••FC5D	
2 made to measure branches	KTA•••FC3E	KTA•••FC4E	KTA•••FC5E	

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

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

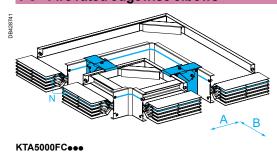
KTA••••FC••



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

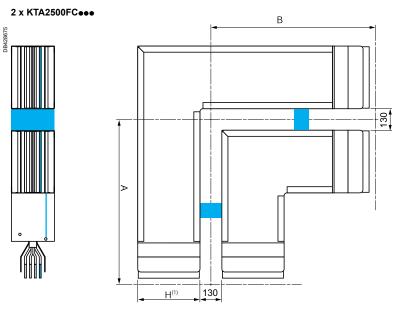
Canalis KTA 5000

FC - Fire rated edgewise elbows



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

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA5000FC5• by KTA5000FC7●

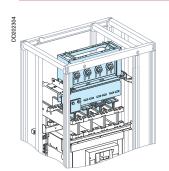


(1) See the "Trunking cross-section" table page 67 and dimensions page 66.

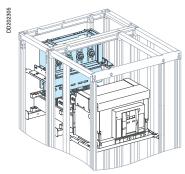
Canalis interfaces for Prisma P LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact MTZ2/NW circuit breakers



Top direct connection



Rear connection

Interfaces can be ordered by 2 channels:

- as a Canalis KT product, in this case use the reference in this catalogue ed. **KTB04715**
- as a Prisma or Okken product, in this case replace the radical KTB by LVS to find the correct reference eg. LVS04715.

All accessories are only available as Prisma or Okken references.

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

Circuit	Type of	Canalis	No. of poles	Conne	ction	Cat. no.
breaker	circuit breaker	polarity	of circuit breaker	Top direct	Rear	_
MTZ2/	Fixed or	3L+PE	3P			KTB04715
NW 08/16	drawout	3L+N+PE	4P	•	•	KTB04716
		3L+N+PER	4P			KTB04716+KTB0164PE1
MTZ2/ Fixed or NW 20/25 drawout	3L+PE	3P	•		KTB04725	
	3L+N+PE	4P			KTB04726	
		3L+N+PER	4P	•		KTB04726+KTB0244PE1
MTZ2/	Fixed or	3L+PE	3P	•	•	KTB04735
NW 32	drawout	3L+N+PE	4P	•		KTB04736
		3L+N+PER	4P	•		KTB04736+KTB0404PE1
	Fixed or	3L+PE	3P		•	KTB04737
NW 40	NW 40 drawout	3L+N+PE	4P		•	KTB04738
		3L+N+PER	4P			KTB04738+KTB0404PE1

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

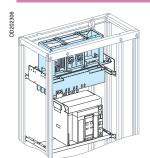
(1) 1 module = 50 mm.

Catalogue numbers and dimensions

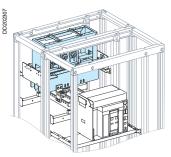
Canalis interfaces for Prisma P LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact MTZ1/NT and Compact NS circuit breakers



Top direct connection



Rear connection

Masterpact MTZ1/NT

Circuit	Type of	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
breaker	circuit breaker			Top direct	Rear	
MTZ1/NT Fixed of draword	Fixed or	3L+PE	3P	•	•	KTB04703
	drawout	3L+N+PE	4P	•	•	KTB04704
		3L+N+PER	4P	•		KTB04704+KTB0164PE1
MTZ1/NT Fixe 16 drav	Fixed or	3L+PE	3P		•	KTB04703
	drawout	3L+N+PE	4P		•	KTB04704
		3L+N+PER	4P		-	KTB04704+KTB0164PE1

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

Compact NS

Circuit	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
breaker				Top direct	Rear	
	Fixed or	3L+PE	3P	-		KTB04703
	drawout	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

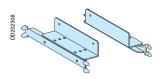
For the position in the switchboard, see the "Installation guide".

Number of modules required in the switchboard

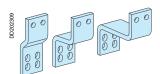
Circuit breaker	Connection	Type of circuit breaker	Number of vertical modules ⁽¹⁾
MTZ1/NT 06/12	Top direct	Fixed	17
NS630b/1250		Drawout	18
	Rear	Fixed or drawout	16
MTZ1/NT 16 NS1600	Rear	Fixed or drawout	16

(1) 1 module = 50 mm.

Interface supports and protection covers



LVS03561



LVS04711 LVS04712 LVS04713 LVS04714

Masterpact MTZ2/NW

Masterpa	Ct 141 1 22/141	•			
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

Masterpact MTZ1/NT

ра	CC WITZ 17141					
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 +

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

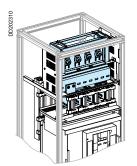
Arc-chute covers

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

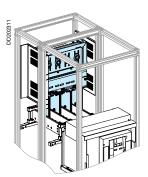
Canalis interfaces for Okken LV switchboard

Canalis KTA 800 to 4000

Interfaces for Masterpact MTZ2/NW circuit breakers



Top direct connection (RDH)



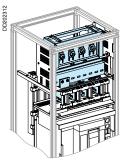
Rear connection (RAR)

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

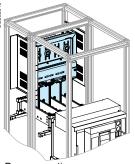
Circuit	Type of	Canalis	No. of poles of circuit breaker	Conne	ction	Cat. no.	
breaker	circuit breaker	polarity		Top direct	Rear	_	
MTZ2/NW	Drawout	3L+PE	3P	-		KTB87811	
08/16						KTB87821	
		3L+N+PE	4P	-		KTB87812	
					•	KTB87822	
		3L+N+PER	4P	•		KTB87812+KTB0164PE1	
						KTB87822+KTB0164PE1	
MTZ2/NW	Drawout	3L+PE	3P	•		KTB87813	
20/25						KTB87823	
		3L+N+PE	4P			KTB87814	
					•	KTB87824	
		3L+N+PER	4P	-		KTB87814+KTB0244PE1	
						KTB87824+KTB0244PE1	
MTZ2/NW	Drawout	Drawout	out 3L+PE	3P			KTB87815
32					•	KTB87825	
		3L+N+PE	4P	-		KTB87816	
						KTB87826	
		3L+N+PER	4P			KTB87816+KTB0404PE1	
					•	KTB87826+KTB0404PE1	
MTZ2/NW	Drawout	3L+PE	3P	•		KTB87817	
40					•	KTB87827	
		3L+N+PE	4P			KTB87818	
					•	KTB87828	
		3L+N+PER	4P			KTB87818+KTB0404PE1	
					•	KTB87828+KTB0404PE1	

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

Interfaces for Masterpact MTZ1/NT circuit breakers



Top direct connection (RDH)



Rear connection (RAR)

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

Circuit	Type of circuit breaker	Canalis polarity	No. of poles of circuit breaker	Connection		Cat. no.
breaker				Top direct	Rear	
MTZ1/NT	Drawout	3L+PE	3P	•		KTB87811
08/16						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⁾	Drawout	Rear	87801

(1) For rear connection of the interface to a Masterpact MTZ2/NW 40 circuit breaker, the supports are supplied with the interface.

Designation	Cat. no.
Special tightening wrench bit	87808

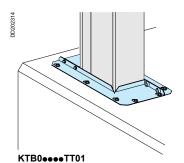
- For 2 superimposed 120x10 bars.
- This tool is essential to tighten the conversion modules on the junction block's spreaders. It is fitted on a torque wrench.

Sealing kits

IP55

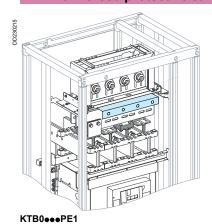
Canalis KTA 800 to 4000

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



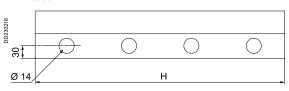
Туре	Rating of the trunking (A)	Height H of the trunking (mm)	Cat. no.
Sealing kit	800	74	KTB0074TT01
	1000	104	KTB0104TT01
	1250	124	KTB0124TT01
	1600	164	KTB0164TT01
	2000	204	KTB0204TT01
	2500	244	KTB0244TT01
	3200	324	KTB0324TT01
	4000	404	KTB0404TT01

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



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

KTB0●●PE1

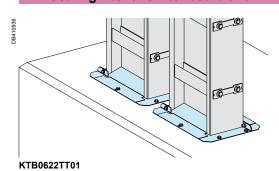




Thickness: 3 mm.

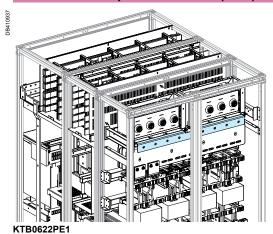
Canalis KTA 5000

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

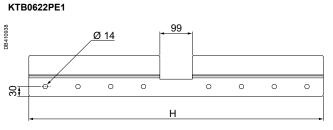


Туре	Rating of the trunking (A)	Height H of the trunking (mm)	Cat. no.	
Sealing kit	5000	622	KTB0622TT01	
·	·			

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



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



Thickness: 3 mm.

85.5

Catalogue numbers and dimensions

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

Canalis KTA 800 to 4000

Ordering

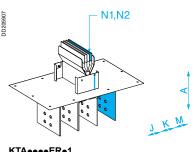
Complete the catalogue number by replacing "••••" by the rating. Important:

- in the catalogue number for the 800 A rating, add a "0": KTA0800
- add the dimensions of the selected unit as a technical comment.

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

Rating

ERe1, ERe2 - Straight feed units



KTA • • • • ER • 2

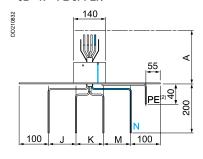
Туре	Position of	Cat. no.		
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Fixed	N1	KTA•••ER31	KTA•••ER41	KTA••••ER51
Made to measure	N2	KTAeeeeER32	KTAeeeeER42	KTAeeeeER52

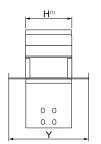
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ER5• by KTA••••ER7•.

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

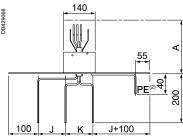
These end feed units are supplied with a connection kit to create a PEN if needed.

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





3L + PE



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

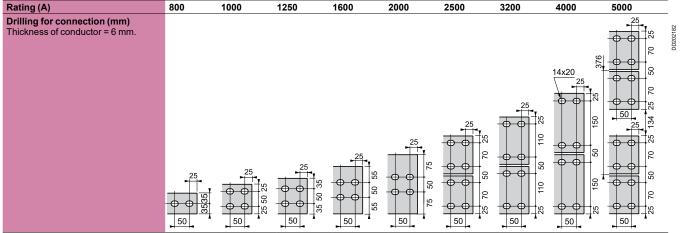
(2) PE drilled diameter = 14 mm pour cables with crimped lugs.

Table of dimensions

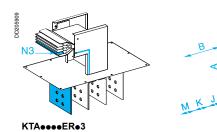
Rating (A)	Neutral	Dimensions		
		Α	J, K, M	Υ
800 ⁽³⁾ to	N1	235	115	230
1250	N2	235 to 734	80 to 250	230
1600 to	N1	235	115	350
2500	N2	235 to 734	80 to 250	350
3200 to	N1	235	115	510
4000	N2	235 to 734	80 to 250	510

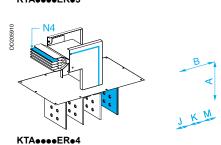
(3) For the 800 A rating, indicate "KTA0800".

Dimensions of connection pads



ERe3, ERe4 - Flat elbow feed units



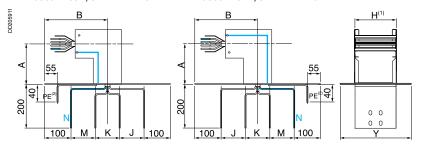


Туре	Position of	Cat. no.				
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)		
Made to measure	N3	KTA•••ER33	KTA•••ER43	KTA•••ER53		
	N/4	KTA•••ER34	KTA•••ER44	KTA••••ER54		

(1) To order the 3L+N+PER version with reinforced Isc, replace KTA••••ER5• by KTA••••ER7•.

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

KTA••••ER•3(3), 3L + N + PE or PER KTA••••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 80.

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

Tableau of dimensions

Rating (A)	Neutral	Dimensions (mm)				
		Α	В	J, K, M	Υ	
800 ⁽⁴⁾ to 1250	N3, N4	200 to 534	300	80 to 250	230	
1600 to 2500	N3, N4	200 to 534	300	80 to 250	350	
3200 to 4000	N3, N4	200 to 534	300	80 to 250	510	

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

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

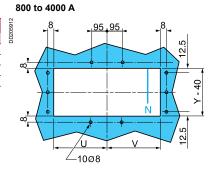
Table of dimensions

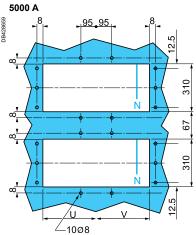
W_

Rating (A)	Dimensions (mm)				
	Υ	U	٧		
800 ⁽¹⁾ to 1250	230	K/2 + J + 80	K/2 + M + 80		
1600 to 2500	350	K/2 + J + 80	K/2 + M + 80		
3200 to 4000	510	K/2 + J + 80	K/2 + M + 80		
5000	350	K/2 + J + 80	K/2 + M + 80		

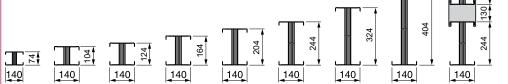
(1) For the 800 A rating, indicate "KTA0800".

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





								-1000	
oss-section									
	800(1)	1000	1250	1600	2000	2500	3200	4000	5000
3L + PE	12	14	16	19	22	25	31	38	50
3L + N + PE	13	16	18	22	26	30	37	45	60
3L + N + PER	15	19	21	26	31	36	46	56	72
									30 244
	3L + PE 3L + N + PE	800 ⁽¹⁾ 3L + PE 12 3L + N + PE 13	800(1) 1000 3L + PE 12 14 3L + N + PE 13 16	800(1) 1000 1250 3L + PE 12 14 16 3L + N + PE 13 16 18	800(1) 1000 1250 1600 3L + PE 12 14 16 19 3L + N + PE 13 16 18 22	800(1) 1000 1250 1600 2000 3L + PE 12 14 16 19 22 3L + N + PE 13 16 18 22 26	800(f) 1000 1250 1600 2000 2500 3L + PE 12 14 16 19 22 25 3L + N + PE 13 16 18 22 26 30	800(1) 1000 1250 1600 2000 2500 3200 3L + PE 12 14 16 19 22 25 31 3L + N + PE 13 16 18 22 26 30 37	800(1) 1000 1250 1600 2000 2500 3200 4000 3L + PE 12 14 16 19 22 25 31 38 3L + N + PE 13 16 18 22 26 30 37 45



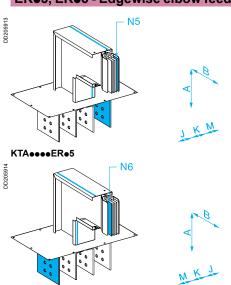
(1) Important: for the 800 A rating, indicate "KTA0800".

Catalogue numbers and dimensions

Feed units for switchboards and oil immersed transformers IP55

Canalis KTA 800 to 4000

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



	Туре	Position of					
		neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)		
Ī	Made to measure	N5	KTA•••ER35	KTA••••ER45	KTA••••ER55		
		N6	KTA•••ER36	KTA••••ER46	KTA••••ER56		

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ER5• by KTA••••FR7•

(1) to Great Research (1) to Great Research (2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ER4• by KTA2500ER6• and KTA3200ER4• by KTA3200ER6•.

KTA••••ER•5(3), 3L + N + PE or PER KTA••••ER•6(3), 3L + N + PE or PER

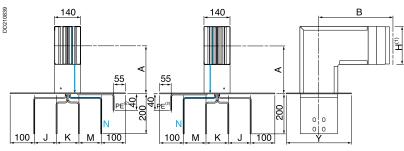


Table of dimensions

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

(1) See the "Trunking crosssection" table opposite. (2) PE drilled diameter = 14 mm pour cables with crimped lugs. (3) 3L + PE version, see page 80. (4) For the 800 A rating, indicate "KTA0800".

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

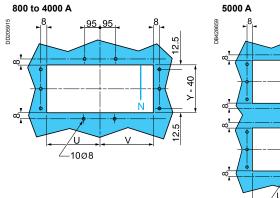
Table of dimensions

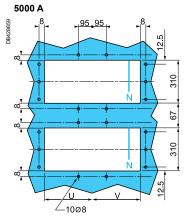
KTA••••ER•6

Rating (A)	Dimei	Dimensions (mm)				
	Υ	U	V			
800 ⁽¹⁾ to 1250	230	K/2 + J + 80	K/2 + M + 80			
1600 to 2500	350	K/2 + J + 80	K/2 + M + 80			
3200 to 4000	510	K/2 + J + 80	K/2 + M + 80			
5000	350	K/2 + J + 80	K/2 + M + 80			

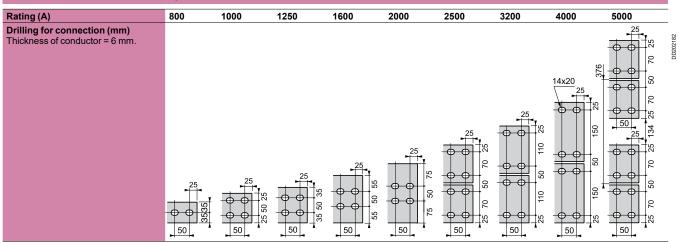
(1) For the 800 A rating, indicate "KTA0800".

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

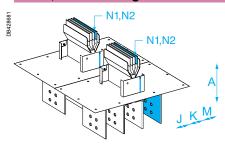




Dimensions of connection pads



ER●1, ER●2 - Straight feed units

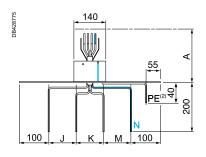


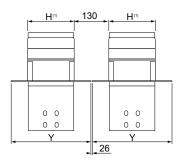
KTA5000ER●1 KTA5000ER●2

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

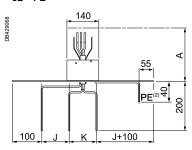
(1) To order the 3L+N+PER version with reinforced lcc, replace KTA5000ER5• by KTA5000ER7•.

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





3L + PE



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

Table of dimensions

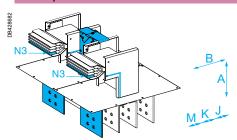
Rating (A)	Neutral	Dimensions (mm)		
		Α	J, K, M	Y
5000	N1	235	115	350
	N2	235 to 734	80 to 250	350

Catalogue numbers and dimensions

Feed units for switchboards and oil immersed transformers IP55

Canalis KTA 5000

ER•3, ER•4 - Flat elbow feed units

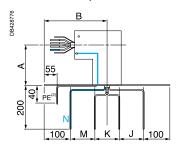


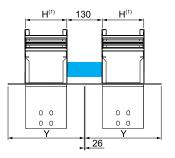
KTA5000ER•3

Туре	Position of	Cat. no.		
	neutral	neutral 3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N3	KTA5000ER33	KTA5000ER43	KTA5000ER53
	N4	KTA5000ER34	KTA5000ER44	KTA5000ER54

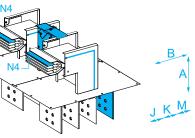
(1) To order the 3L+N+PER version with reinforced lcc, replace KTA5000ER5● by KTA5000ER7●.

KTA5000ER•3 (3), 3L + N + PE or PER

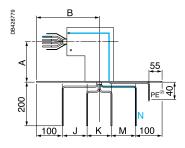




KTA5000ER•4 (3), 3L + N + PE or PER



KTA5000ER●4

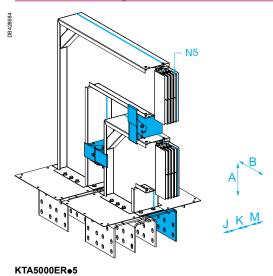


- (1) See the "Trunking cross-section" table page 86.
 (2) PE drilled diameter = 14 mm pour cables with crimped lugs.
 (3) 3L + PE version, see page 80.

Tableau of dimensions

Rating (A)	Neutral	Dimensions	(mm)		
		Α	В	J, K, M	Υ
5000	N3, N4	200 to 534	300	80 to 250	350

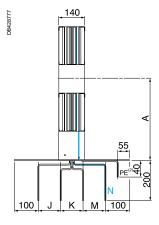
ER•5, ER•6 - Edgewise elbow feed units

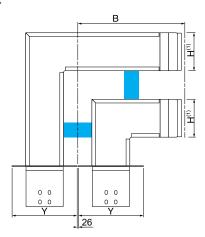


Туре	Position of	Cat. no.		
	neutral	3L + PE	3L + N + PE	3L + N + PER (1)
Made to measure	N5	KTA5000ER35	KTA5000ER45	KTA5000ER55
	N6	KTA5000ER36	KTA5000ER46	KTA5000ER56

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

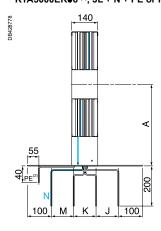
KTA5000ER•5 (3), 3L + N + PE or PER





KTA5000ER●6

KTA5000ER•6 (3), 3L + N + PE or PER



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

Table of dimensions

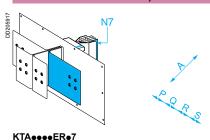
Rating (A)	Neutral	Dimensions (mm)				
		Α	В	J, K, M	Υ	
5000	N3, N4	448 to 782	548	80 to 250	350	

Catalogue numbers and dimensions

Feed units for switchboards and oil immersed transformers IP55

Canalis KTA 800 to 4000

ER•7 - Bar feed units, flat outlets



 Type
 Cat. no. (3)

 3L + PE
 3L + N + PE (2)
 3L + N + PER (1)

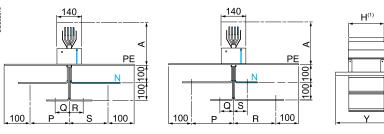
 Made to measure
 KTA●●●●ER37
 KTA●●●●ER47
 KTA●●●●ER57

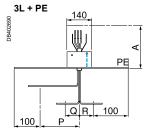
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••ER57 by KTA••••ER77.

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500ER4• by KTA2500ER6•.
(3) Not available for KTA5000.

Connection pad dimensions are identical to those of the feed units.

KTA••••ER•7 3L + N + PE or PER





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

Table of dimensions

Rating (A)	Dimension	Dimensions (mm)				
	Α	P-Q	S-R or R-S	Q, R, S minimum	Υ	
800 ⁽²⁾ to 1250	235 to 734	160 to 600	160 to 600	80	230	
1600 to 2500	235 to 734	160 to 600	160 to 600	80	350	
3200 to 4000	235 to 734	160 to 600	160 to 600	80	510	

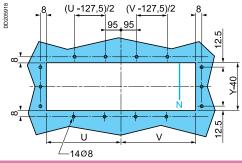
(2) For the 800 A rating, indicate "KTA0800".

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

Table of dimensions					
Rating (A)	Dimensions (mm)				
	Υ	U	V		
800 ⁽¹⁾ to 1250	230		if S > R. V = S + 80		
1600 to 2500	350	U = P + 80	if R > S, V = R + 80		
3200 to 4000	510		II K / 3, V = K + 60		

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

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



Trunking cross-section Rating (A) 800(1) Weight (kg/m) 3L + PE 3L + N + PE 3L + N + PER Height H (mm) Width W (mm) $_{\mathsf{W}}$

Rigid protective covers

Canalis KTA 800 to 5000

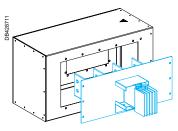
Ordering

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

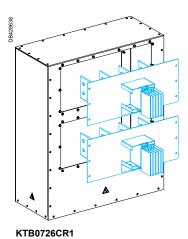
Example: the catalogue number of a rigid vertical protective cover with dimension Y = 350 mm intended for a feed unit with different between centre dimensions D, G and Z (in mm) is:

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

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



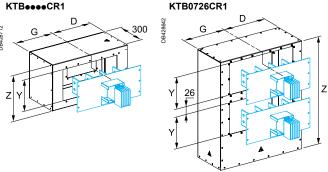
KTB•••CR1



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

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





Protective cover for ER N1 to N6 straight end feed connectors

Dimensions ${\bf D}$ and ${\bf G}$ 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

G = K/2 + J + 100

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

G = K/2 + M + 100

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

Table of dimensions

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

Protective cover for ER N7 straight end feed connectors

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

Position of the neutral on the feed connector also determines the rule to be used for calculating parameters 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

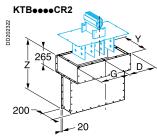
Rating (A) Dimensions (mm)					
	Υ	D	G	Z	
800 to 1250	230	340 to 1000	340 to 1000	310 to 800	
1600 to 2500	350	340 to 1000	340 to 1000	430 to 800	
3200 to 4000	510	340 to 1000	340 to 1000	590 to 800	

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

 $\label{lem:lemportant:} \mbox{Important: when ordering a vertical cover, make sure you indicate dimensions "D, G and Z" with the catalogue number.$



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



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

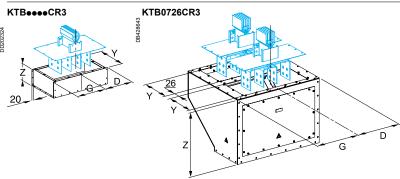
For the 3L + PE version, consider M = J to calculate the D and G quotations.

Table of dimensions for ER N1 to N6 straight feed units

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



Rating (A)	Dimensions "Y" (mm)	Cat. no.	Weight (kg)
800 to 1250	230	KTB0230CR3	17.00
1600 to 2500	350	KTB0350CR3	17.00
3200 to 4000	510	KTB0510CR3	17.00
5000	350	KTB0726CR3	60.00



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

Table of dimensions for ER N1 to N6 straight feed units

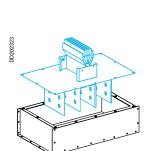
Rating (A)	Dimensio	Dimensions (mm)					
	Υ	Y D G Z					
800 to 1250	230	220 to 475	220 to 475	100 to 400			
1600 to 2500	350	220 to 475	220 to 475	100 to 400			
3200 to 4000	510	220 to 475	220 to 475	100 to 400			
5000	350	220 to 475	220 to 475	591 to 800			

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

Table of dimensions for ER N7 straight feed units

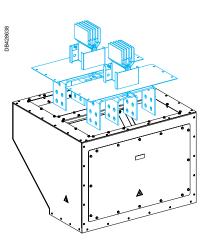
Rating (A)	Dimensio	Dimensions (mm)				
	Υ	D	G	Z		
800 to 1250	230	220 to 475	220 to 475	100 to 400		
1600 to 2500	350	220 to 475	220 to 475	100 to 400		
3200 to 4000	510	220 to 475	220 to 475	100 to 400		

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



KTB•••CR3

KTB••••CR2



KTB0726CR3

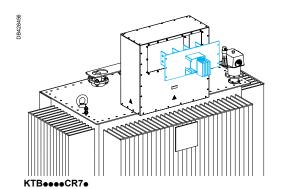
Adjustable protective covers for Minera immersed transformers IP55

Canalis KTA 800 to 5000

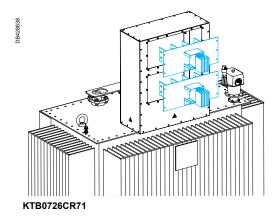
CR7 - Protective covers for horizontal incomers

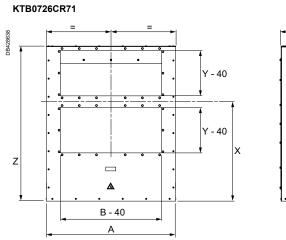
These covers are used to connect Canalis KT to Minera transformers. Dimensions are predefined to match with transformer ratings. Refer to the selection guide, see page 244.

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



KTB••••CR7• Z B - 40

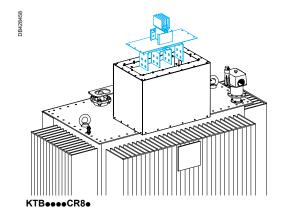




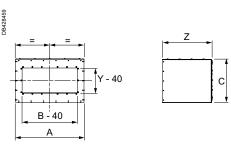
CR8 - Protective covers for vertical incomers

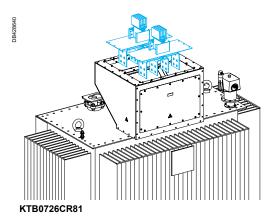
These covers are used to connect Canalis KT to Minera transformers. Dimensions are predefined to match with transformer ratings. Refer to the selection guide, page 246.

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

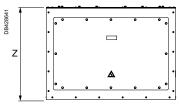


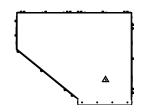
KTB••••CR8•

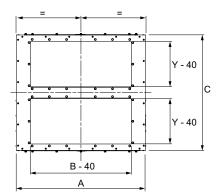




KTB0726CR81





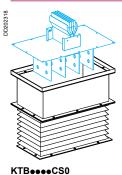


Flexible protective covers **Cable boxes**

IP55

Canalis KTA 800 to 4000

CS - Flexible vertical protective covers for straight feed units



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

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

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

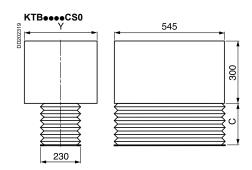
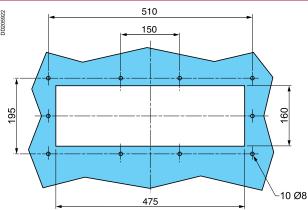


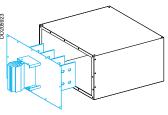
Table of dimensions

Rating (A)	Dimensions (mm)	
	Υ	С
800 to 1250	230	200 to 650
1600 to 2500	350	200 to 650
3200 to 4000	510	200 to 650

Cut-out drawing for fixing the flexible vertical protective cover



BC - Cable boxes

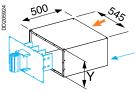


KTBeeeeBC01

Rating (A)	Dimensions "Y" (mm)	Cat. no.	Weight (kg)
800 to 1250	230	KTB0230BC01	15.00
1600 to 2500	350	KTB0350BC01	17.00
3200 to 4000	510	KTB0510BC01	19.00

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

KTBeeeeBC01



Cable entry.

Aluminium plate to be drilled.

Table of dimensions

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

See table page 86 for connection pad dimensions.

Feed units for dry-type transformers

IP55

Canalis KTA 800 to 4000

Ordering

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

- in the catalogue number for the 800 A rating, add a "0": KTA0800
- add the dimensions of the selected unit as a technical comment.

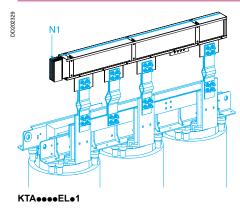
Example: the catalogue number of a 3200 A end feed unit, N2, 3L + N + PER, with a between centre distance E = 550 mm, length N = 310 mm and phase order T = 3N21 is:

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

Rating

Position of

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



	neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)		
Made to measure	N1	KTA••••EL31	KTA••••EL41	KTA•••EL51		
	N2	KTA••••EL32	KTA••••EL42	KTA•••EL52		
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••EL5• by KTA••••EL7•.						

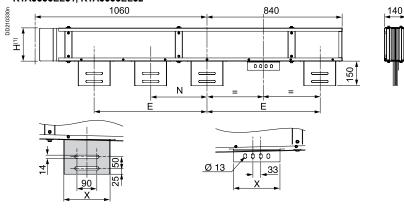
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EL4• by KTA2500EL6• and KTA3200EL4• by KTA3200EL6•.

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

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

These end feed units are supplied with PEN connection kit.

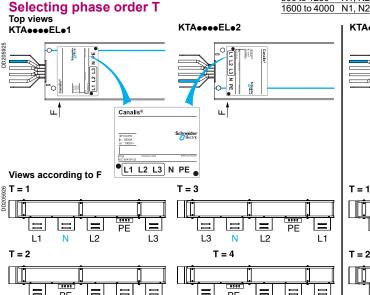
KTA••••EL•1, KTA••••EL•2



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

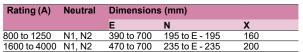
Table of dimensions

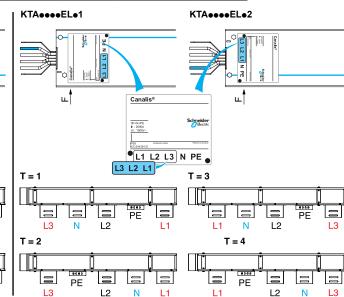
KTA••••EL•2



L3

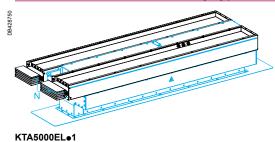
N





KTA5000EL•2

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

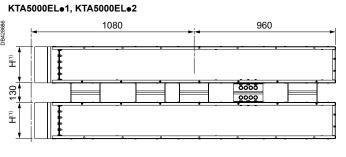


Туре	Position of neutral	Cat. no.			
		3L + PE	3L + N + PE	3L + N + PER (1)	
Made to measure	N1	KTA5000EL31	KTA5000EL41	KTA5000EL51	
	N2	KTA5000EL32	KTA5000EL42	KTA5000EL52	

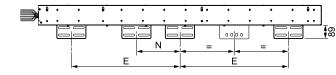
(1) To order the 3L+N+PER version with reinforced Isc, replace KTA5000EL5● by

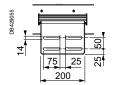
For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 98. For fixing supports, see KTB••••ZA4 page 110.

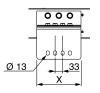
DB428751









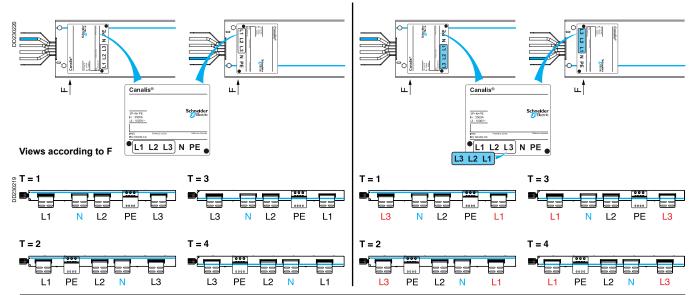


(1) See the "Trunking cross-section" table page 101.

Table of dimensions

Rating (A)	Neutral	Dimensions (mm)		
		E	N	Χ
5000	N1. N2	470 to 736	235 to E - 235	200

Selecting phase order T

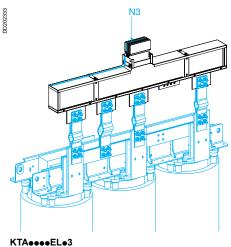


Feed units for dry-type transformers

IP55

Canalis KTA 800 to 4000

EL-3, EL-4 - N3 and N4 feed units for dry-type transformers



DD202333	N3

Туре	Position of	Cat. no.		
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Made to measure	N3	KTA•••EL33	KTA••••EL43	KTA•••EL53
	N4	KTA•••EL34	KTA••••EL44	KTA•••EL54
=				

140

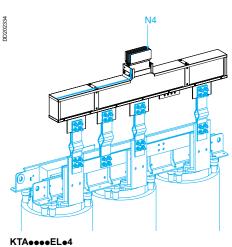
(1) To order the 3L+N+PER version with reinforced Isc, replace KTA••••EL5• by KTA•••EL7•.

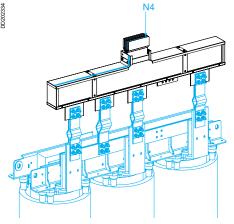
(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EL4● by KTA2500EL6● and KTA3200EL4● by KTA3200EL6●.

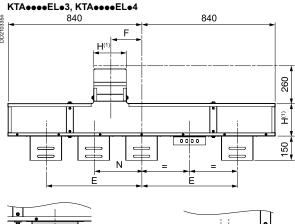
For an installation with flat mounted busbar trunking, add angle brackets between the transformer and the feed unit, see page 98.

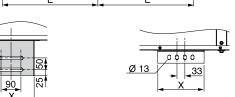
For fixing supports, see KTB •••• ZA4 page 110.

These end feed units are supplied with PEN connection kit.









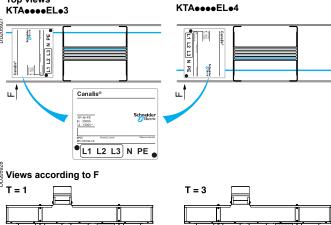
(1) See the "Trunking cross-section" table page 101.

KTA • • • • EL • 3

Table of dimensions

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

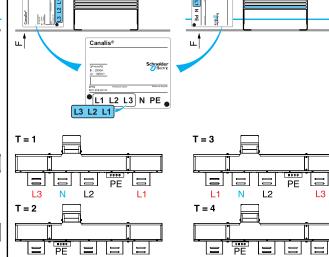
Selecting phase order T Top views



L3

T = 4

L2



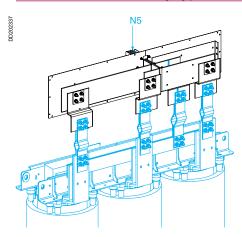
KTA••••EL•4

L1

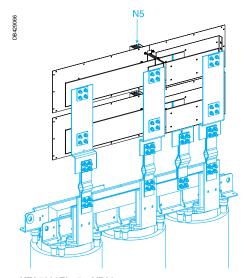
T = 2

L2

EL•5 - Feed units for dry-type transformers



KTA••••EL•5



KTA5000EL•5 + YP23 For YP23 see page 108.

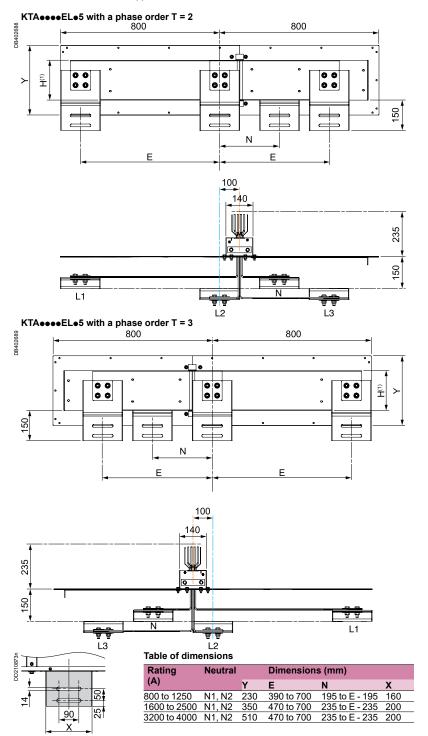
Туре	Position of	Cat. no. (3)		
	neutral	3L + PE	3L + N + PE (2)	3L + N + PER (1)
Made to measure	N5	KTA•••EL35	KTA••••EL45	KTA•••EL55

(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••EL55 by KTA••••EL75.

(2) To order the 3L+N+PE 2500 A and 3200 A version with reinforced lsc, replace KTA2500EL4• by KTA2500EL6• and KTA3200EL4• by KTA3200EL6•.
(3) References KTA5000EL•5 are made of 2 references KTA2500EL•5.

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

These end feed units are supplied with PEN connection kit.

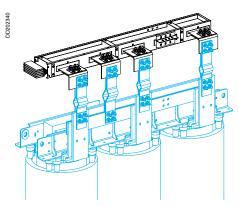


(1) See the "Trunking cross-section" table page 101. Important: the above designs and markings correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse markings L1 and L3 on the transformer side.

Feed units for dry-type transformers IP55

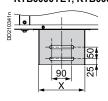
Canalis KTA 800 to 4000

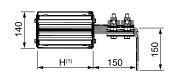
YE - Angle brackets for installing N1 to N5 feed units flat

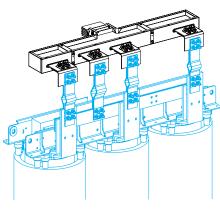


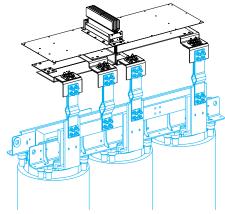
Description	Rating (A)	Phase width "X" (mm)	Cat. no.
4 angle brackets	800 to 1250	160	KTB0000YE1
+ screws	1600 to 4000	200	KTB0000YE2

KTB0000YE1, KTB0000YE2









KTB0000YE1, KTB0000YE2

Protective covers for dry-type transformers

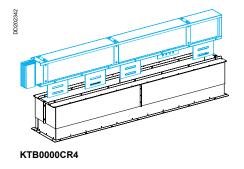
IP55

Canalis KTA 800 to 4000

Ordering

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

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



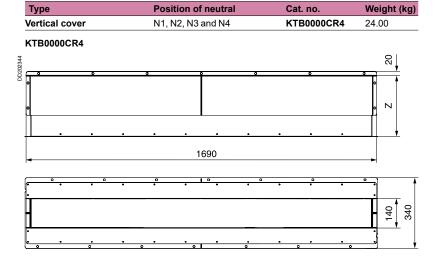
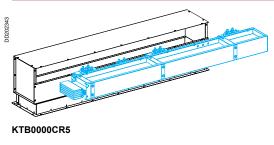


Table of dimensions

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

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



	туре	Position of neutral	Cat. no.	weight (kg)
	Horizontal cover	N1, N2, N3 and N4	KTB0000CR5	32.00
	KTB0000CR5			
DD202345				140
	•			, Z
			g 0 0	<u> </u>
		1690		
	<u> </u>	^ ^	0	<u> </u>
	,			340
	•		•	•

Table of dimensions

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

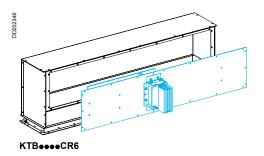
Catalogue numbers and dimensions

Protective covers for dry-type transformers

IP55

Canalis KTA 800 to 4000

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



Туре	Position of neutral	Dimension "Y" (mm)	Cat. no.	Weight (kg)
Horizontal covers	N5	230	KTB0230CR6	38.00
		350	KTB0350CR6	40.00
		510	KTB0510CR6	47.00

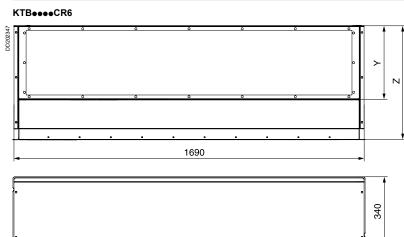
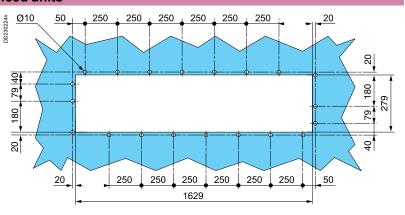


Table of dimensions

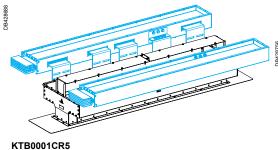
Rating (A)	Dimensions (mm)		
	Y	Z Minimum	Maximum
800 to 1250	230	380	530
1600 to 2500	350	500	650
3200 to 4000	510	660	810

Cut-out drawing for dry-type transformer feed units



View from the top of the transformer.

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



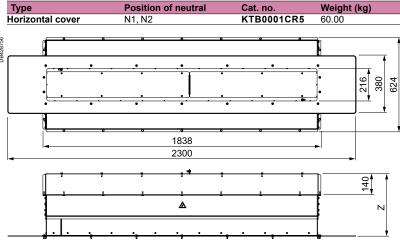
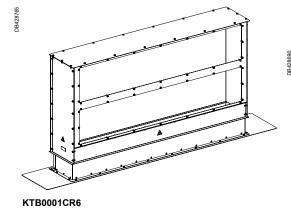


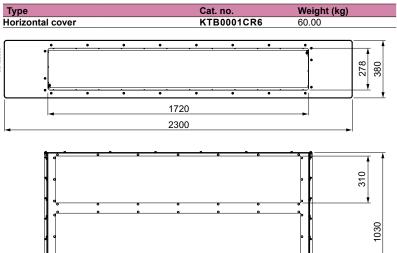
Table of dimensions

Rating (A)	Dimensions Z (mm)		
	Minimum	Maximum	
5000	330	480	

See "Connection to Trihal cast resin transformers", page 235.

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





Δ

Rating (A)		800(1)	1000	1250	1600	2000	2500	3200	4000	5000
Weight (kg/m)	3L + PE	12	14	16	19	22	25	31	38	50
	3L + N + PE	13	16	18	22	26	30	37	45	60
	3L + N + PER	15	19	21	26	31	36	46	56	72
leight H (mm) Vidth W (mm)										

W 140 140 140 140 140 140 140 140 140

(1) Important: for the 800 A rating, indicate "KTA0800".

Connection accessories

Canalis KTA 800 to 5000

Ordering

To order YC1 or YC3 flexibles with customized drilled holes at the bottom.

Example: total length = 565 mm with a pattern of 4 centred holes 50x50 at 25 mm of the bottom.

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

To order flexibles without drilled holes at the bottom.

Example: total length = 435 mm.

KTB0100YC305B, L=435, E=0, F=0, Y=25.

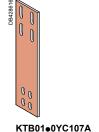
In all cases E, F and Y need to be filled.

YC1 - Connection plates

Туре	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm²)	Cat. no.	Weight (kg)
Made to	Bi-metal aluminium	100	7	300 to 600	700(1)	KTB0100YC107A	1.6
measure	copper	120	7	300 to 600	840(1)	KTB0120YC107A	1.9
	Bare copper	100	5	300 to 600	500(2)	KTB0100YC105B	2.7
		120	5	300 to 600	600(2)	KTB0120YC105B	3.2

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

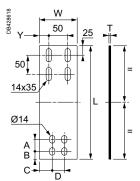
(2) Made of 5 sheets 1 mm (100 % CU).







KTB01e0YC105B Bare copper



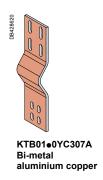
ı	Dimensions (mm)
L	
Α	
В	
С	
D	
Е	
F	
Υ	

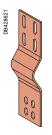
- E = number of vertical holes (bottom pattern)
- F = number of horizontal holes (bottom pattern)

YC3 - Connection flexible links with onde

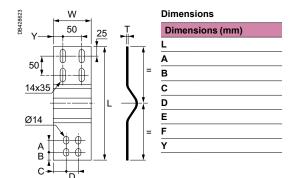
Туре	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm²)	Cat. no.	Weight (kg)
Made to	Bi-metal aluminium	100	7	300 to 600	700(1)	KTB0100YC307A	1.6
measure	copper	120	7	300 to 600	840(1)	KTB0120YC307A	1.9
	Bare copper	100	5	300 to 600	500 ⁽²⁾	KTB0100YC305B	2.7
		120	5	300 to 600	600(2)	KTB0120YC305B	3.2

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





KTB01e0YC305B Bare copper

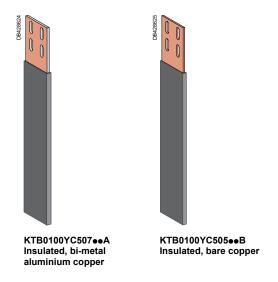


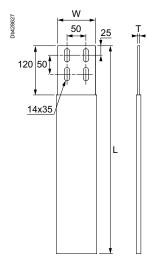
- E = number of vertical holes (bottom pattern)
- F = number of horizontal holes (bottom pattern)

YC5 - Connection insulated

Туре	Surface treatment	"Width (mm) W"	"Depth (mm) T"	"Length (mm) L"	Cross-section (mm²)	Cat. no.	Weight (kg)
Fixed,	Bi-metal aluminium	100	7	1000	700(1)	KTB0100YC50710A	2.6
insulated	copper	100	7	600	700(1)	KTB0100YC50706A	1.6
	Bare copper	100	5	1000	500(2)	KTB0100YC50510B	4.5
		100	5	600	500 ⁽²⁾	KTB0100YC50506B	2.7

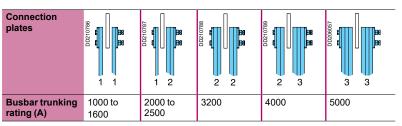
- (1) Made of 5 sheets of 1.4 mm (16 % CU, 84 % AL). (2) Made of 5 sheets 1 mm (100 % CU).





Determining the number of connection plates required

Busbar trunking rating (A)	Bare copper connection plates per phase		
	Number (2)	Section (mm²)	
1000	2 (100 x 5)	1000	
1250	2 (100 x 5)	1000	
1600	2 (100 x 5)	1000	
2000	3 (100 x 5)	1500	
2500	3 (100 x 5)	1500	
3200	4 (100 x 5)	2000	
4000	5 (100 x 5)	2500	
5000	6 (120 x 5)	3600	



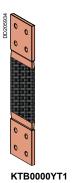
(2) The number of bi-metal alumunium copper connections per phase is the same as bare copper ones.

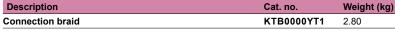
Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bi-metal aluminium copper.

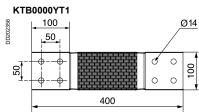
Connection accessories

Canalis KTA 800 to 5000

YT - Braids

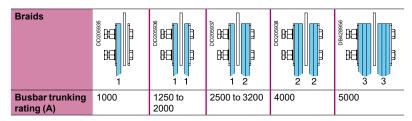






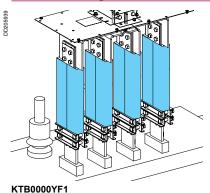
Determining the number of braids required

Busbar trunking rating (A)	Braids per phase	
	Number	Cross-section (mm²)
1000	1	600
1250	2	1200
1600	2	1200
2000	2	1200
2500	3	1800
3200	3	1800
4000	4	2400
5000	6	3600



Canalis KTA 800 to 5000

YF - Insulating sheaths



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

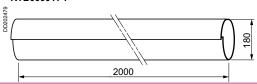
Installation is performed after complete assembly of the connection, with scratch

fastening for easier setup.

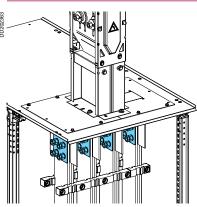
The insulating conduit is formed of a 2-metre plastic duct that can be cut to length as needed.

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

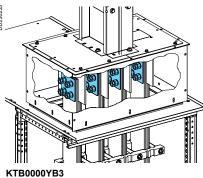
KTB0000YF1

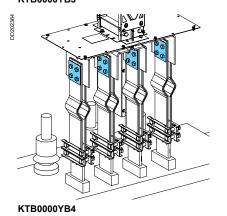


YB - Spacers and bolts



KTB0000YB2

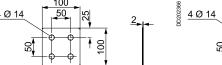


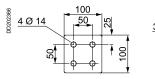


KTB0000YB5

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 spacers + 8 x 2 mm copper spacers + 16 x M12 x 60 bolts + washers and nuts	KTB0000YB2	5.50
Spacer plates for connector plate connections	8 x 3 mm galvanized steel plates + 16 x M12 x 60 bolts + washers and nuts	KTB0000YB3	4.00
	8 x 3 mm galvanized steel plates + 16 x M12 X 80 bolts + washers and nuts	KTB0000YB4	4.00
Set of bolts	16 x M10 x 60 bolts + washers and nuts	KTB0000YB5	2.00

Copper spacer Galvanized steel spacer plates



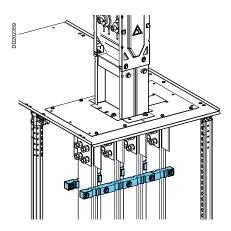


Catalogue numbers and dimensions

Connection accessories

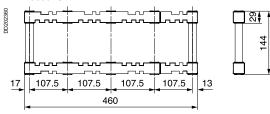
Canalis KTA 800 to 5000

YS - Bar supports



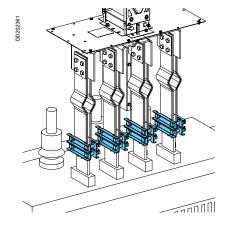
Description	Cat. no.	Weight (kg)
Bar support, 115 mm between centres	KTB0000YS1	2.40
for bar of 2x5 or 10 mm		

KTB0000YS1



KTB0000YS1

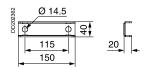
YS - Bar clamps



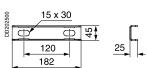
Description	Dimensions of t	ransformer Cat. no. ninals (mm)	Weight (kg)
8 bar clamps	100	KTB0000YS2	6.40
	120	KTB0000YS3	6.40

Each bar clamp includes 2 cross members and associated fixings.

KTB0000YS2

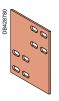


KTB0000YS3



KTB0000YS●

YP1 - Connection plate for oil immersed Minera transformer



KTB0000YP1●

Type YP1

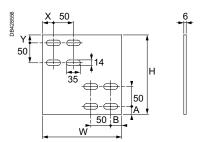
Plates for Minera oil transformer, connection from the top.

The product reference is for one phase.

Bolts at the equipments level are not included in the reference.

See selection table page 247.

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



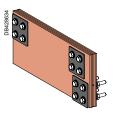
Connection selection guide, see page 244 and page 246

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YP2 - Connection plates for KTA5000 end feed units



KTB0000YP21



KTB0000YP22

Type YP21 for ER1 to ER6 horizontal incomer

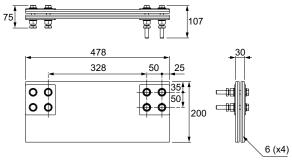
Plates to link connection pads of 2 end feed units KTA2500 (ER1 to ER6) in order to create a

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



Type YP22 for ER1 to ER6 vertical incomer

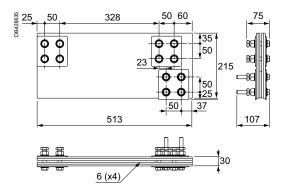
Plates to link connection pads of 2 end feed units KTA2500 (ER1 to ER6) in order to create a KTA5000.

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

trunking side.

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

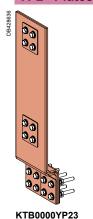
	Cat. no.	Weight (kg)
1 set of plates and holts for 1 phase	KTR0000YP22	24.5



Connection accessories

Canalis KTA 5000

YP2 - Plates for KTA5000 end feed units



Type YP23 for EL5 horizontal incomer

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

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

		Cat. no.	Weight (kg)
1 set of plates and bol	ts for 1 phase	KTB0000YP	23 35
68 88 88 88 88 88 88 88 88 88 88 88 88 8	6 (x4) BB	50	
-	615	115	65
50 50	328 50 113	50 25	
0 0	0 0	0 0 75 0 50 200	00 (30) 00 (30) 00 (30) 00 (30)



KTB0000YP24

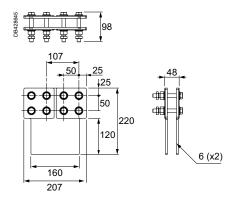
Type YP24 for EL1 and EL2 dry transformer flexible links

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

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

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

	Cat. no.	Weight (kg)
1 set of plates and bolts for 1 phase	KTB0000YP24	5

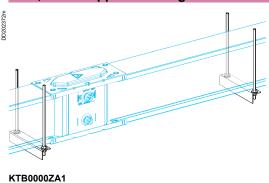


Connection selection guide, see page 234.

Supports and fixings

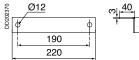
Canalis KTA

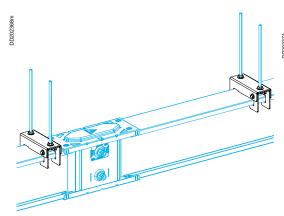
ZA1, ZA4 - Supports for edge wise horizontal installation



Description	Rating	Busbar trunking height (mm)	Cat. no.	Weight
	(A)	neigni (min)		(kg)
1 support from the bottom (threaded rods supplied) ⁽¹⁾	-	-	KTB0000ZA1	2.80
Set of 2 supports from	800	74	KTB0074ZA4	3.20
the top (threaded rods not supplied)	1000 to 4000	104 to 404	KTB0404ZA4	3.80

KTB0000ZA1





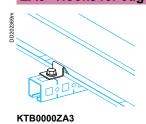
KTB●●●●ZA4 B Table of dimensions

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

	_14	2 X 23		
	$-\!\!\!/-$			_
C	3	ф	69	
	С	1		

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

ZA3 - Hooks for edge wise horizontal installation

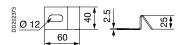


KTB••••ZA4

2 fixing grips are needed for each fixing point.

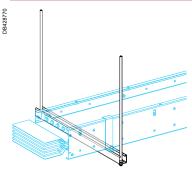
Description	Cat. no.	Weight (kg)
1 set of 8 hooks	KTB0000ZA3	0.60

KTB000ZA3

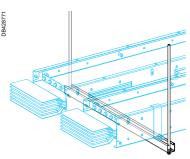


Schneider

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

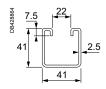


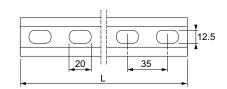
VTD	eeeeZA7	
NID	9999ZA(



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

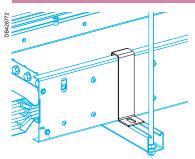
- (1) Threaded rods, length = 2 meters, are supplied with the support. (2) Threaded rods not supplied.





KTB0622ZA7

ZA8 - Bracket for flat wise horizontal installation

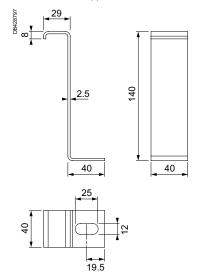


KTB0000ZA8

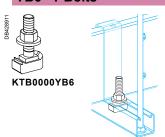
2 brackets are needed for each fixing point.

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.



YB6 - T-Bolts



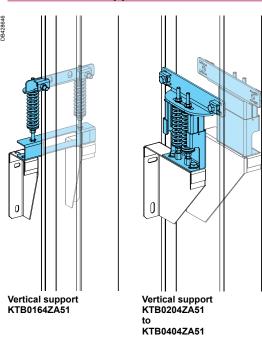
Description	Cat. no.	Weight (kg)
1 box of 50 bolts M10 x 35 for rails 41 x 41	KTB0000YB6	6.0

Includes T-screws, nuts and washers.

Supports and fixings

Canalis KTA

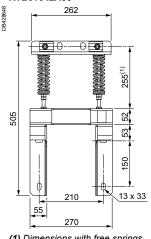
ZA5 - Vertical supports

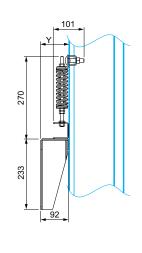


Description	•	Busbar	Vertical suppo	rt	Wall bracket	
	(A)	trunking height (mm)	Cat. no.	Weight (kg)	Cat. no.	Weight (kg)
Fixings	800 to 1600	74 to 164	KTB0164ZA51	2.1	KTB0164ZA52	2
_	2000	204	KTB0204ZA51	6.9	KTB0204ZA52	3.2
	2500	244	KTB0244ZA51	7.1	KTB0244ZA52	3.5
	3200	324	KTB0324ZA51	7.6	KTB0324ZA52	4.2
	4000	404	KTB0404ZA51	8.4	KTB0404ZA52	4.2

For further details, see page 208.

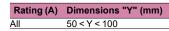
KTB0164ZA5●





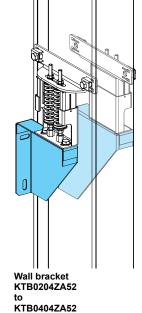
(1) Dimensions with free springs.

Table of dimensions



Wall bracket

KTB0164ZA52



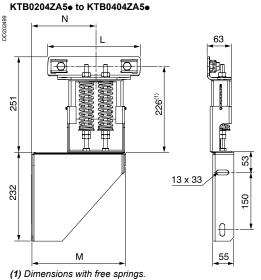


Table of dimensions							
Rating	Dime	ensio	ns (mm)				
(A)	L	M	N				
2000	202	205	152 to 202				
2500	240	245	172 to 222				
3200	322	325	212 to 262				
4000	402	325	252 to 302				

Trunking cross-section

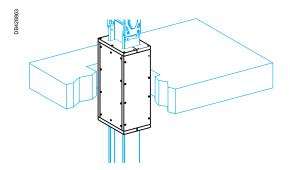
	Rating (A)	800(1)	1000	1250	1600	2000	2500	3200	4000	5000
	Height H (mm) Width W (mm)									244
DD210867										30 27
	<u> w </u>					204	244	324	404	44
		<u> </u>	5	<u>127</u>	<u> </u>		_ 	<u> </u>	<u> </u>	
		140	140	140	140	140	140	140	140	140

Accessories

Fire-barrier kit

Canalis KTA 800 to 5000

CF - Fire-barrier

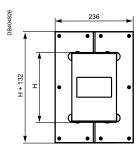


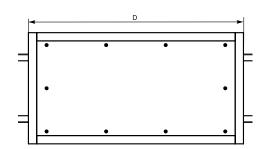
Туре	Busbar trunking rating (A)	Busbar trunking height "H" (mm)	Fire barrier length	Cat. no.
Fire-barrier kit	800	74	650	KTB0074CF6
	1000	104	650	KTB0104CF6
	1250	124	650	KTB0124CF6
	1600	164	650	KTB0164CF6
	2000	204	650	KTB0204CF6
	2500	244	650	KTB0244CF6
	3200	324	650	KTB0324CF6
	4000	404	650	KTB0404CF6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

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

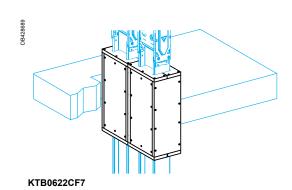
Filler material not supplied.

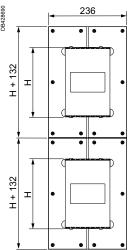
(1) This reference includes a sealant cartridge KTB0000SC1.

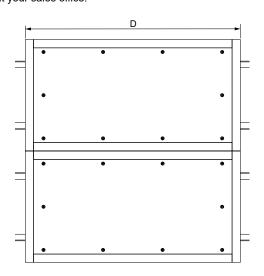




The fire barrier kit can also be made up on site by the installer according to Schneider Electric's drawings and specifications. For further information, consult your sales office.







SC - Fire-barrier sealant cartridge



Туре	Cat. no.
Fire-barrier sealant cartridge	KTB0000SC1

Canalis KTA

KSB100SMe12

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

IP55

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

Rating

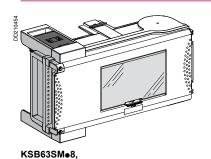
(A) 63

100

Number of 18 mm modules⁽³⁾

8

12



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

System earthing	Busbar trunking	TT-TNS-TNC-I	T ⁽¹⁾ TNC	
arrangement	Tap-off unit	TT-TNS-TNS-I	T ⁽¹⁾ TNC	
Tap-off polarity		3L + N + PE(2)	3L + PEN	
Tap-off diagram (e.g. circuit breaker protection)		L1 L2 L3 N PE	L1 L2 L3 N PE	
Connection Max. s Flexible	ize (mm²) Cable glan e Rigid ^{(not suppli}		Cat. no.	Weight (kg)
On devices 16	16 ISO 50 ma	x. KSB63SM48	KSB63SM58	2.40

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).

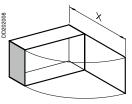
ISO 63 max.

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

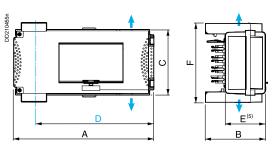
35

KSB63SMe8, KSB100SMe12

On devices



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



35

Cable exit
Centre line of tap-off outlets

(5) Protruding

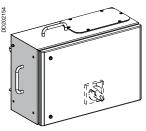
Ī	Dimensions	Ratir	ng (A)
		63	100
7	4	357	444
	3	158	183
(167	202
Ī)	309	397
Ē	Ē	108	133
Ē		202	220

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

IP55

Tap-off units for NG modular devices, not equipped

Rating



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	Busba	ar trunking	TT-TNS-TNC-IT	1) TNC	
arrangement	Tap-of	ff unit	TT-TNS-TNS-IT(1) TNC	
Tap-off polarity			3L + N + PE ⁽²⁾	3L + PEN	
Tap-off diagram (e.g. circuit breaker protection)		o physical contracts	11 L2 L3 N PE	L1 L2 L3 N PE	
<u>(</u>	Max. size mm²) Flexible Rigid	Cable gland ⁽³⁾ (not supplied)	Cat. no.	Cat. no.	Weight (kg)

KSB160SM413 KSB160SM513 8.50

(A)	circuit-breaker
160	NG125 Rotary handle 19088 ⁽⁴⁾ NG160 Rotary handle 28060 ⁽⁴⁾

Type of

(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).

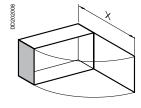
ISO 25 max.

(3) Maximum diameter by unipolar cable.

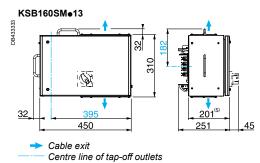
50

(4) Not supplied.

Terminals



X = 625.5



(5) Protruding

Canalis KTA

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

IP55

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

KSB•••DC•

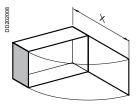
The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

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

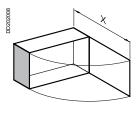
						0 0 0 0 0	0 0 0 0 0	
Rating (A)	Type of circuit breaker	Connection	Max. size	e (mm² Rigid	Cable gland ⁽³⁾ (not supplied)	Cat. no.	Cat. no.	Weight (kg)
160	NSX100 or NSX160 Rotary handle 29338	Terminals	50	70	ISO 25 max.	KSB160DC4	KSB160DC5	9.00
250	NSX250 Rotary handle 29338	Terminals	70	150	ISO 32 max.	KSB250DC4	KSB250DC5	12.50
400	NSX400 Rotary handle 32598	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.

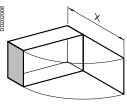
KSB160DC●



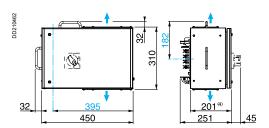
X = 625.5



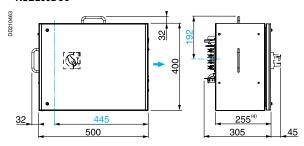
X = 726.5



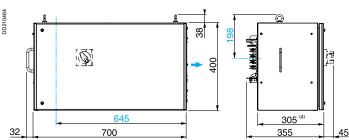
X = 976.5



KSB250DC●



KSB400DC●

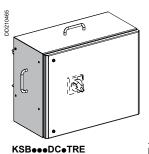


Cable exit Centre line of tap-off outlets

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

IP55

Tap-off units for measurements and metering, not eqquiped



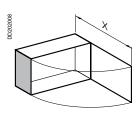
The cover of the tap-off unit may be opened or closed only when the circuit breaker is in the Off position.

System earthin	g	Busba	ar trunking		TT-TNS-TNC-IT(1)	TNC	
arrangement		Tap-of	ff unit		TT-TNS-TNS-IT(1)	TNC	
Tap-off outlets					3L + N + PE ⁽²⁾	3L + PEN	
Tap-off diagram (e.g. circuit brea protection)				DD210452	L1 L2 L3 N PE	L1 L2 L3 N PE	
-	Max. size Flexible	(mm²) Rigid	Cable gland ⁽³⁾ (not supplied))	Cat. no.	Cat. no.	Weight (kg)
 		4=0	10.0.00				40.50

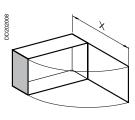
						0 0 0 0 0	00000	
Rating (A)	Type of circuit breaker	Connection			Cable gland ⁽³⁾ (not supplied)		Cat. no.	Weight (kg)
250	NSX250 Rotary handle 29338	Terminals	70	150	ISO 32 max.	KSB250DC4TRE	KSB250DC5TRE	13.50
400	NSX400 Rotary handle 32598	Terminals	150	240	ISO 40 max.	KSB400DC4TRE	KSB400DC5TRE	19.50

- (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.

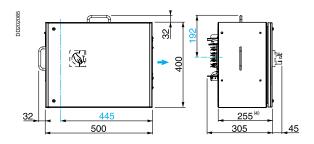
KSB250DC●TRE

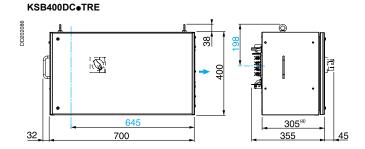


X = 726.5



X = 976.5





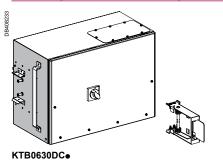
Cable exit Centre line of tap-off outlets (4) Protruding

Canalis KTA

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

IP55

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



Rating

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

System earthi	ng Busbar t	runking	TT-TNS-TNC-IT(1)	TNC	
arrangement	Tap-off u	nit	TT-TNS-TNS-IT(1)	TNC	
Tap-off polarity	y		3L + N + PE(2)	3L + PEN	
Tap-off diagrai (e.g. circuit bre protection)		DD2710451	L1 L2 L3 N PE	L1 L2 L3 N PE	
	Max. size (mm²) L or N / PE	Cable gland ⁽³⁾ (not supplied)	Cat. no.	Cat. no.	Weight (kg)

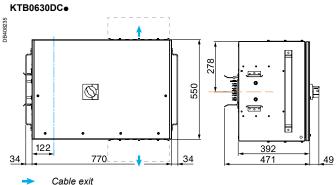
(A) circuit breaker 630(4)(6) NSX630 Rotary handle 32598

Type of

Terminals 2 x 300 / 1 x 150 ISO 70 max. KTB0630DC4 **Terminals** 2 x 300 / 1 x 150 ISO 70 max. KTB0630DC5

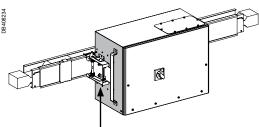
- (1) The neutral must be protected or not distributed (3L+PE) for the IT system.
- (2) Also suitable for tap-off unit 3L + PE (N not distributed, IT system also possible).
- (3) Maximum diameter by unipolar cable.
- (4) De-rating coefficient to apply: 0.9.
- (5) The auto clamping system is included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

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



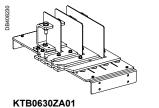
Center line of tap-off outlets Axis of Canalis KT

Connection box to be fitted above or below



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

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





118

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

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

(A)

100

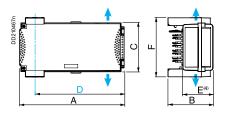
Rating For fuses KSB•••SF•

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

	System earthing arrangement		Busba	ar trunking	TT-TNS-TNC-IT(1)	TNC	
			Tap-o	ff unit	TT-TNS-TNS-IT(1)	TNC	
	Tap-off polarity				3L + N + PE ⁽²⁾	3L + PEN	
	Tap-off diagram (e.g. fuse protection)			DD210470	L1 L2 L3 N PE \$ 888	L1 L2 L3 N PE	
For fuses	Connection	Max. size	e (mm²)	Cable gland ⁽³⁾	Cat. no.	Cat. no.	Weight
(not supplied)		Flexible	Rigid	(not supplied)			(kg)
NF 14 x 51 Type gG : 50 A max. Type aM : 50 A max.	Terminals	25	25	ISO 50 max.	KSB50SF4	KSB50SF5	2.40
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.

KSB50SF●, KSB100SF●

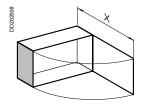


Cable exit

Centre line of tap-off outlets

(4) Protruding

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



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

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

Canalis KTA

Tap-off units with isolator for blade-type fuses

100

160

250

400

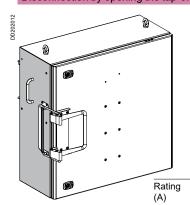
Size 1

Size 2

Type gG: 250 A max. Type aM: 250 A max

Type gG: 400 A max. Type aM: 400 A max

Disconnection by opening the tap-off unit cover



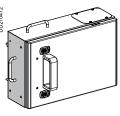
Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised. It is possible to install an OF contact triggered by cover opening (see the "Accessories" section, page 126).

TT-TNS-TNC-IT(1) TNC

Busbar trunking

	arrangement		Tap-off unit		TT-TNS-TNS-IT	(1) TNC	
	Tap-off polarity				3L + N + PE(2)	3L + PEN	
	Tap-off diagram (e.g. fuse prote			מצאחיכירות	L1 L2 L3 N PE	L1 L2 L3 N PE	
For blade-type fuses (not supplied)	Connection	Max. size		Cable gland (not supplied)	Cat. no.	Cat. no.	Weight (kg)
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
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





KSB160SE● KSB250SE●

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

150

240

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

KSB250SE4

KSB400SE4

(3) Maximum diameter for a unipolar cable.

(4) Cable gland for multipolar cable only.

150

240

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

ISO 32(4) max.

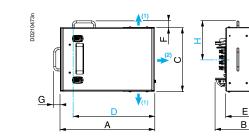
ISO 40(4) max.

KSB160SE●, KSB250SE●

Terminals

Terminals

System earthing



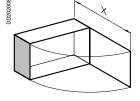
Dimensions	Ratir	ıg (A)
	160	250
A	450	600
В	257	308
С	300	400
D	395	548
E	207	258
B C D E F	32	32
G	32	32
Н	182	192

KSB250SE5

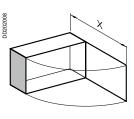
KSB400SE5

20.00

29.20

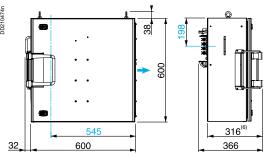


X = 577.5 (KSB160SE•) X = 777 (KSB250SE●)



X = 855

KSB400SE●



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

(6) Protruding

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

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

(A) 25

50

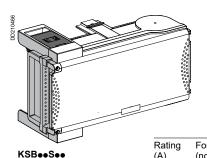
63

(not supplied)

Diazed E27

Néozed E18

Diazed E33

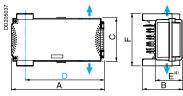


Tap-off unit disconnection by opening or closing the cover should be carried out
only if the downstreamload is de-energised.

System eartning		Duspa	ar trunking	11-1NS-TNC-IT	INC		
arrangement		Tap-o	ff unit	TT-TNS-TNS-IT(1)	TNC		
Tap-off polarity				3L + N + PE ⁽²⁾	3L + PEN		
Tap-off diagram (e.g. fuse protection	on)		CE COLOR	L1 L2 L3 N PE L261Z00	L1 L2 L3 N PE		
Connection	Max. size Flexible	(mm²) Rigid	Cable gland ⁽³⁾ (not supplied)	Cat. no.	Cat. no.	Weight (kg)	
Terminals	25	25	ISO 50 max	KSB25SD4	KSB25SD5	2.40	
Terminals	25	25	ISO 50 max.	KSB50SN4	KSB50SN5	2.40	
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
- (3) Maximum diameter for a multipolar cable.

KSB••S••

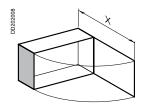




Cable exit Centre line of tap-off outlets

(4) Protruding

	Dimensions	Rating (A)	
		25 and 50	63
7	Α	356	444
Ē	В	153	178
(C	167	202
[D	309	397
E	E	103	198
Ī	F	202	220



 $X = 432.5 \text{ (KSB25SD}_{\bullet}, \text{KSB50SN}_{\bullet})$ $X = 545.5 \text{ (KSB63SD}_{\bullet})$

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

Canalis KTA

Tap-off units with isolator for blade-type fuses

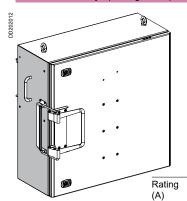
100

160

250

400

Disconnection by opening the tap-off unit cover



Tap-off unit disconnection by opening or closing the cover should be carried out only if the downstreamload is de-energised. It is possible to install an OF contact triggered by cover opening (see the "Accessories" section, page 126).

Busbar trunking

TT-TNS-TNC-IT(1) TNC

TT-TNS-TNS-IT(1) TNC

	Tap on and				11 1110 1110 11	1110	
	Tap-off polarity				3L + N + PE ⁽²⁾	3L + PEN	
	Tap-off diagram (e.g. fuse protect			07200470	1 12 13 N PE	L1 L2 L3 N PE	
For blade-type fuses (not supplied)	Connection	Max. size	e (mm² Rigid	Cable gland (not supplied)	Cat. no.	Cat. no.	Weight (kg)
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
Size 00 Type gG : 160 A max. Type aM : 160 A max.	Terminals	35	50	ISO 20 ⁽⁴⁾ max.	KSB160SE4	KSB160SE5	11.00
Size 1 Type gG : 250 A max. Type aM : 250 A max.	Terminals	150	150	ISO 32 ⁽⁴⁾ max.	KSB250SE4	KSB250SE5	20.00
Size 2 Type gG : 400 A max. Type aM : 400 A max.	Terminals	240	240	ISO 40 ⁽⁴⁾ max.	KSB400SE4	KSB400SE5	29.20





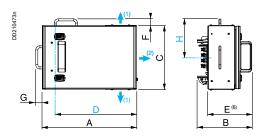
KSB160SE KSB250SE●

- (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 119 cat. no. KSB100SFe

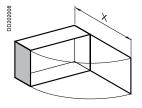
KSB160SE●, KSB250SE●

System earthing

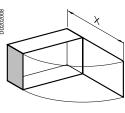
arrangement



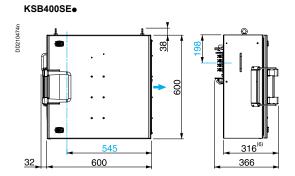
Dimensions	Rating (A)		
	160	250	
A	450	600	
В	257	308	
С	300	400	
D	395	548	
<u>D</u> <u>E</u> F	207	258	
	32	32	
G	32	32	
Н	182	192	



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



X = 855



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

(6) Protruding

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

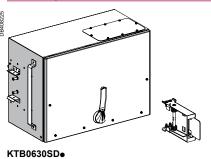
IP55

SD - Tap-off units with switch-disconnector

Rating

(A) 630(4)(6) Type of fuses

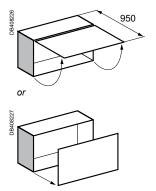
DIN size 3

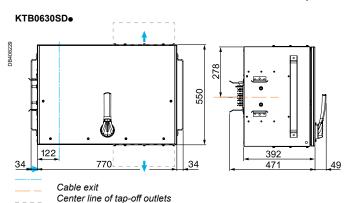


Tap-off units to be installed on 2 meters elements, only on central outlet. The cover of the tap-off unit may be opened or closed only when the switchdisconnector is in the Off position.

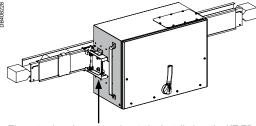
System earth	ning Bu	sbar trunking	TT-TNS-TNC-IT	Γ ⁽¹⁾ TNC	
arrangement	Tap	o-off unit	TT-TNS-TNS-IT	T(1) TNC	
Tap-off polari	ity		3L + N + PE(2)	3L + PEN	
Tap-off diagra (e.g. fuse pro			L1 L2 L3 N PE	L1 L2 L3 N PE	
Connection	Max. size (mi L or N / PE	m²) Cable gland ⁽³⁾ (not supplied)		Cat. no.	Weight (kg)
Terminals	2 x 300 / 1 x 1	50 ISO 70 max.	KTB0630SD4		64
Terminals	2 x 300 / 1 x 1	50 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.
 For an installation on Canalis KT delivered before 2016 contact our help desk.





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. IIO.
Kit of connection bars		KTB0630ZA02
Extension rotary handle		KTB0630ZA03
Connecting box		KTB0630ZA04
DB408230	16280160	KTB0630ZA04
KTB0630ZA02	KTB0630ZA03	

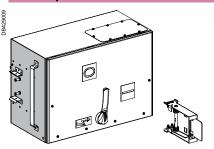
Canalis KTA

KTB0630SE

630 A tap-off units from Canalis KT range with switch-disconnector for DIN fuses

IP55

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



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

To be installed on KT ED type distribution length only.

System earthing arrangement	Busbar trunking Tap-off unit		TT-TNS-TNC-IT ⁽¹⁾		
Tap-off polarity			3L + N + PE ⁽²⁾	3L + PEN	
Tap-off diagram (e.g. fuse protection)		DD230226	L1 L2 L3 N PE 8282828	L1 L2 L3 N PE	
Connection Max siz	re (mm²). Cable gland	d(3) Cable	Cat no	Cat. no.	Weight

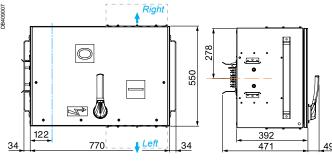
						0 0 0 0	0 0 0 0	
Rating (A)	Type of fuses	Connection	Max. size (mm²) L or N / PE (kg)	Cable gland ⁽³⁾ (not supplied)		Cat. no.	Cat. no.	Weight (kg)
630 ⁽⁴⁾ DIN size 3 Terminals 2 x 300 1 x 150		ISO 70 max.	Right	KTB0630SE4R		72		
		1 x 150	I X 150	Left	KTB0630SE4L		72	
			Right		KTB0630SE5R	78		
				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.

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

9500

KTB0630SE●

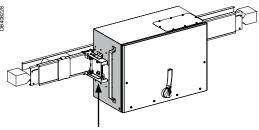


Cable exit

--- Center line of tap-off outlets

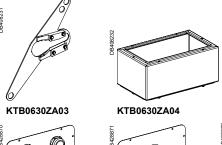
Axis of Canalis KT

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







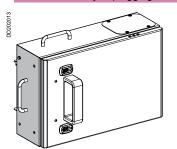


KTB0000GP02

KTB0000GP03

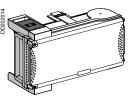
32 to 160 A tap-off units from **Canalis KS range for BS fuses** IP55

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



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

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



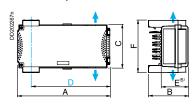
KSBeeSG4

KSB160SG4

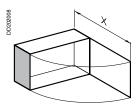
- Weight Rating Connection Max. size (mm²) Cable gland Cat. no. For fuses (not supplied) Flexible Rigid (not supplied) (A) (kg) 32 BS88 A1 25 ISO 50(3) max KSB32SG4 2.40 Terminals 80 BS88 A1 or A3 Terminals 35 ISO 63(3) max or KSB80SG4 5.00 50 ISO 20⁽⁴⁾ max BS88 B1 or B2 160 Terminals 35 50 ISO 20(4) max KSB160SG4 11.00
 - (1) The neutral must be not distributed (3L+PE) for the IT system.
 - (2) Also suitable for tap-off unit 3L + PE (N not distributed).
 - (3) Maximum diameter for a multipolar cable.
 - (4) Maximum diameter for a unipolar cable.

KSB32SG4, KSB80SG4

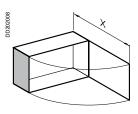
KSB160SG4



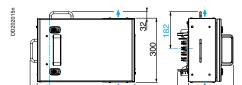
Dimensions	Rating (A)			
	32	80		
A	356	444		
В	153	178		
С	167	202		
D	309	397		
B C D E	103	128		
F	202	220		



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



X = 577.5



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

Accessories for tap-off units from Canalis KS range IP55

Canalis KTA

Accessories for all tap-off units for modular devices

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

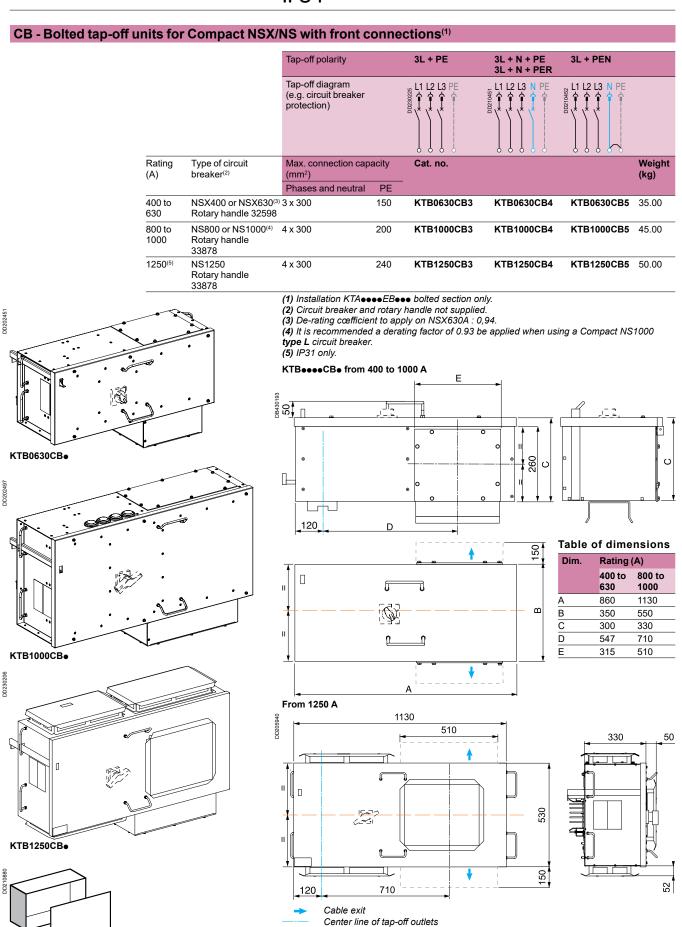
⁽¹⁾ Self-adhesive support complete with transparent cover and paper label.

Accessories for all sheet-metal tap-off units

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

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

IP54



Axis of Canalis KT

Connection box to be fitted above or below

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

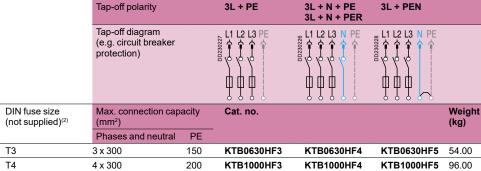
Canalis KTA

DD230200

IP31

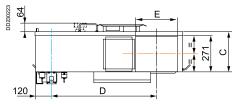
HF - Bolted tap-off units with switch-disconnectors(1)

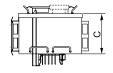
Rating

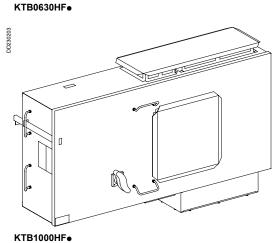


- 630(3) 1000(3)(4)
- (1) Installation KTA ••• EB•• bolted section only.
- (2) Switch-disconnectors and rotary handle supplied. (3) Derating coefficient to apply:0.8.
- (4) KTB1000HF• cannot be installed on EB straight lengths.

KTB•••HF•







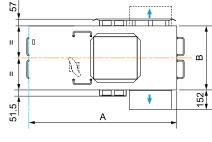
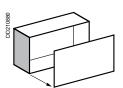


Table of dimensions

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



Cable exit

Center line of tap-off outlets

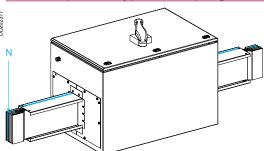
Axis of Canalis KT

Connection box to be fitted above or below

Coupling isolators from 1000 to 2500 A

IP55

SL - Compact NS type NA coupling isolators



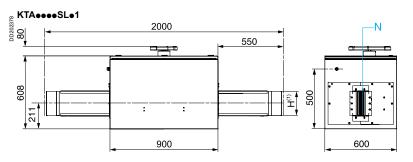
Fits equally on ducting in a flat position, on the edge (door accessible from above or below) or

Tap-off unit door locking is achieved using a door key lock.

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

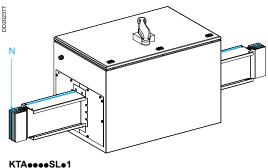
(1) To order the 3L+N+PER version with reinforced lsc, replace KTA••••SL51 by

KTA • • • • SL • 1



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

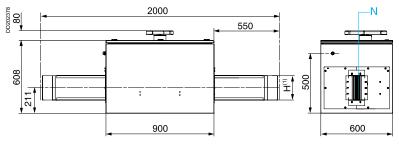
SL - Interpact INV coupling isolators



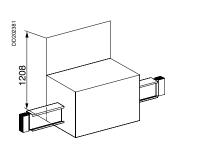
Fits equally on ducting in a flat position, on the edge or vertically. Tap-off unit door locking is achieved using a door key lock.

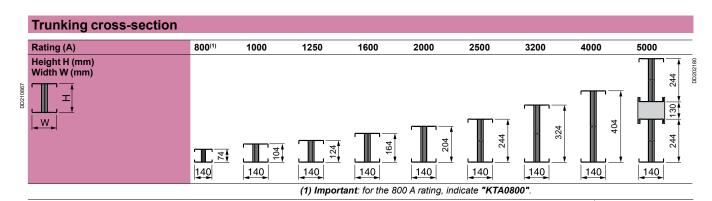
Rating	Type of				Weight
(A)	isolator (supplied)	3L + PE	3L + N + PE	3L + N + PER	(kg)
2000	INV2000	KTA2000SL31	KTA2000SL41	KTA2000SL51	170.00
2500	INV2500	KTA2500SL31	KTA2500SL41	KTA2500SL51	180.00

KTA • • • • SL • 1



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



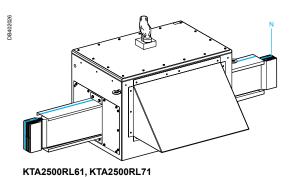


2500 A internal arcing resistant coupling isolator

IP55

Canalis KTA

RL - Coupling isolator with Interpact INV

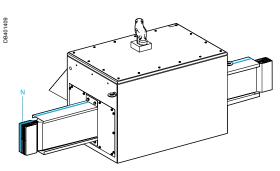


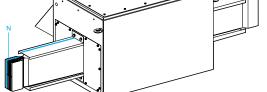
To be installed edgeways on busbar trunking, door accessible from above or below. The enclosure door is fitted with a key lock.

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

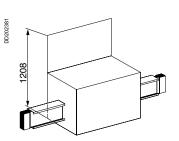
This unit has a short circuit withstand lcw = 110 kA 0.1 s and an internal arcing withstand for 110 kA 0.3 s.

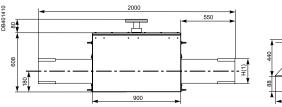
The coupling device can support only one closure at 80 kA. Switchdisconnector inside: Interpact INV ref: 31368 for 3P+PEN, ref:31369 for 3P+N+PER

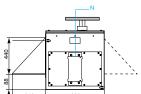




KTA2500RL62, KTA2500RL72



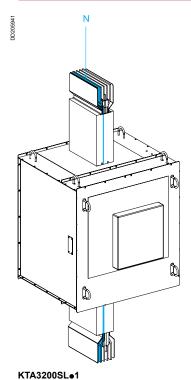




Schneider Belectric

Coupling isolators 3200 A IP55

SL - Masterpact NW coupling isolators



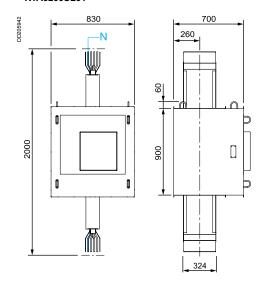
Notice: If the coupling isolator is installed on a **horizontal** busbar trunking the device must be only used as a disconnector and without any accessories (MX, XF, Motor MCH...).

Rating (A)	Type of isolator	Cat. no.			Weight (kg)
(A)	(supplied)	3L + PE	3L + N + PE	3L + N + PER ⁽¹⁾	(Kg)
3000(2)	NW3200 HA	KTA3200SL31	KTA3200SL41	KTA3200SL51	320.00

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

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

KTA3200SL•1



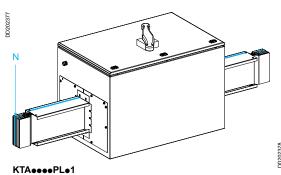
Protection of the run using **Compact NS circuit breakers** from 1000 à 1600 A

Canalis KTA

IP55

KTA••••PL•1

PL - Protection of the run using Compact NS circuit breakers

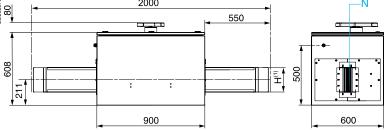


Fits equally on ducting in a flat position, on the edge or vertically. Tap-off unit door locking is achieved using a door key lock.

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

1208

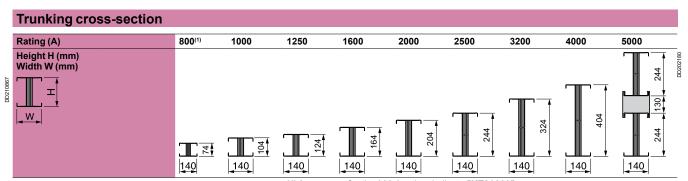




- (1) See the "Trunking cross-section" table below.
- (2) Manual fixed compact NS circuit breakers type N equipped with a Micrologic 2.0 control unit.
- (3) To order the 3L+N+PER version with reinforced lsc, replace KTA••••PL51 by KTA●●●PL71.

Protection of a run > 1600 A

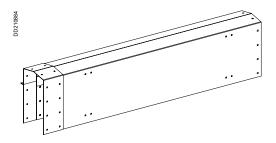
To install protection of a run > 1600 A, consult your sales office.



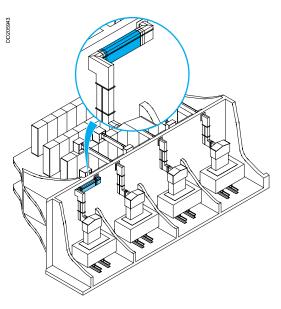
Special products

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

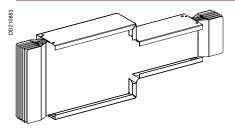
Double skin aluminium enclosure



For outdoor applications.



Reduction sections

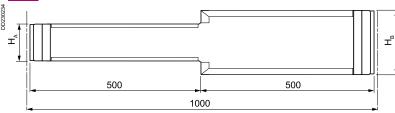


For reducing busbar trunking ratings. **NOTE**: must be used in conjunction with appropriate protection.

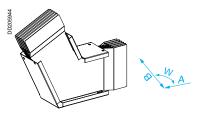
Table of sizes

H _A	H _B							
	74	104	124	164	204	244	324	404
74								
104								
124								
164								
204								
244								
324								
404								

Available.



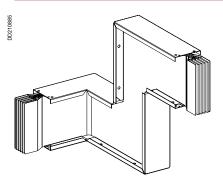
Edgewise elbow with made to measure angles



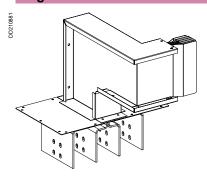
Special products

Canalis KTA

4-limb zed unit



Edgewise/flat elbow feed unit



On demand

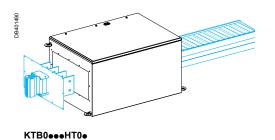
- Surface treatment on conductors for corrosive atmospheres.
- Special colours.
- Seaworthy packaging.
- etc.

Canalis KH substitution by Canalis KT

KTA/KHF connection elements

Canalis KTA or KHF

HT - Connection elements



Ratings (A)	Cat. no.			
	3L + PE	3L + N + PE	3L + N + PER	Weight (kg)
	KTB0350HT01	KTB0350HT01	KTB0350HT01	63.00
	KTB0350HT02	KTB0350HT02	KTB0350HT02	80.00
	-	-	KTB0350HT12	80.00
See the table below	KTB0510HT01	KTB0510HT01	KTB0510HT01	88.00
pelow	KTB0510HT02	KTB0510HT02	KTB0510HT02	127.00
	KTB0510HT03	KTB0510HT03	KTB0510HT03	137.00
	-	-	KTB0510HT11	88.00

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

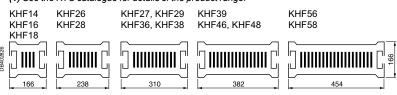
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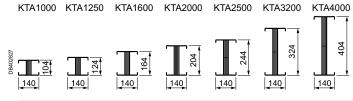
Table of dimensions

	Α	В	С	D	E	F	G	Н	1
KTB0350HT01	850	331.5	518.5	300	300	600	258	208	466
KTB0350HT02	850	331.5	518.5	300	300	600	258	208	466
KTB0350HT12	850	331.5	518.5	300	300	600	258	208	466
KTB0510HT01	890	310	580	300	300	600	329	306	635
KTB0510HT02	890	310	580	300	300	600	329	306	635
KTB0510HT03	890	310	580	300	300	600	329	306	635
KTB0510HT11	890	310	580	300	300	600	329	306	635

KHF type	Rating	L busway	KT type	Rating	H busway	H flange	Connection ref.
KHF14	1000	166	KTA1000	1000	104	230	
KHF16	1200	166	KTA1250	1250	124	230	KTB0350HT01
KHF18	1450	166	KTA1600	1600	164	350	
KHF26	2200	238	KTA2500	2500	244	350	- KTB0350HT02
KHF28	2500	238	KTA2500	2500	244	350	K10033011102
KHF27	2200	310	KTA2500	2500	244	350	- KTB0350HT12
KHF29	2500	310	KTA2500	2500	244	350	KIBUSSUHI IZ
KHF36	3000	310	KTA3200	3200	324	510	- KTB0510HT01
KHF38	3500	310	KTA4000	4000	404	510	KIBUSIUHIUI
KHF39	3500	382	KTA4000	4000	404	510	KTB0510HT11
KHF46	4000	382	KTA4000	4000	404	510	- KTB0510HT02
KHF48	4500	382	KTC5000 (1)	5000	404	510	- KIBUSIUHIUZ
KHF56	5000	454	KTC5000 (1)	5000	404	510	KTB0510HT03
KHF58	5500	454		Line exte	nsion with h	(T is not po	ssible

(1) See the KTC catalogue for details of the product range.





KHF Polarity	KTA Polarity
3L+PE	3L+PE
3L+1/2N+PE	3L+N+PE
3L+N+PE	3L+N+PE
3L+N+PER (2)	3L+N+PER
(0)) () (() (00 0 0 0	

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

Canalis KH substitution by Canalis KT

Preserved KH tap-off units and substitution table

Canalis KTA

Protection type	Polarity	Rating	Catalogue number	Status	Substitued by
solator and fuse carriers	3L+PE	160	KH016SD13	Removed	KHB0250SE5
		250	KH025SD13	Removed	KHB0250SE5
		400	KH040SD13	Removed	KHB0630SE5R or KHB0630SE5
		630	KH063SD13	Removed	KHB0630SE5R or KHB0630SE5
	3L+N+PE	160	KH016SD14	Removed	KHB0250SE4
		250	KH025SD14	Removed	KHB0250SE4
		400	KH040SD14	Removed	KHB0630SE4R or KHB0630SE4
	3L+PEN	630 160	KH063SD14	Removed Removed	KHB0630SE4R or KHB0630SE4 KHB0250SE5
	3L+PEN	250	KH016SD15 KH025SD15	Removed	KHB0250SE5 KHB0250SE5
		400	KH040SD15	Removed	KHB0630SE5R or KHB0630SE5
		630	KH063SD15	Removed	KHB0630SE5R or KHB0630SE5
			KH063SD1530758	Removed	KHB0630SE5R or KHB0630SE5
	3L+NP+PE	160	KH016SD24	Removed	No
		250	KH025SD24	Removed	No
		400	KH040SD24	Removed	No
		630	KH063SD24	Removed	No
witch and fuse carriers	3L+PE	200	KH020SD33	Removed	KHB0250SE5
		315	KH031SD33	Removed	KHB0630SE5R or KHB0630SE5
	0. 1. 55	500	KH050SD33	Removed	KHB0630SE5R or KHB0630SE5
	3L+N+PE	50	KH005SD34	Removed	KHB0250SE4
		100 200	KH010SD34 KH020SD34	Removed Removed	KHB0250SE4 KHB0250SE4
		250	KH025SE341	Removed	KHB0250SE4 KHB0250SE4
		315	KH031SD34	Removed	KHB0630SE4R or KHB0630SE4
		400	KH040SE341	Removed	KHB0630SE4R or KHB0630SE4
		500	KH050SD34	Removed	KHB0630SE4R or KHB0630SE4
		630	KH063SE341	Removed	KHB0630SE4R or KHB0630SE4
	3L+PEN	50	KH005SD35	Removed	KHB0250SE5
		100	KH010SD35	Removed	KHB0250SE5
		200	KH020SD35	Removed	KHB0250SE5
		250	KH025SE351	Removed	KHB0250SE5
		315	KH031SD35	Removed	KHB0630SE5R or KHB0630SE
		400	KH040SE351	Removed	KHB0630SE5R or KHB0630SE5
		500	KH050SD35	Removed	KHB0630SE5R or KHB0630SE5
	OL AND DE	630	KH063SE351	Removed	KHB0630SE5R or KHB0630SE5
	3L+NP+PE	200 315	KH020SD44 KH031SD44	Removed Removed	No No
		500	KH050SD44	Removed	No
ircuit breaker manuel	3L+N+PE	160	KH016SD541	Removed	KH025SD541
san 2. sans. manas.	02 2	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	-
ircuit breaker electrical control	3L+N+PE	160	KH016SD542	Removed	No
		250	KH025SD542	Removed	No
		400	KH040SD542	Removed	No
	2L LDEN	630	KH063SD542	Removed	No No
	3L+PEN	160 250	KH016SD552 KH025SD552	Removed Removed	No No
		400	KH040SD552	Removed	No
		630	KH063SD552	Preserved	No
Auller Isolator	3L+N+PE	630	KH063SD841	Removed	No
	3L+PEN	100	KH010SD85	Removed	KHB0250SE5
		250	KH025SD85	Removed	KHB0250SE5
		400	KH040SD85	Removed	KHB0630SE5R or KHB0630SE5
		630	KH063SD85	Removed	KHB0630SE5R or KHB0630SE5
			KH063SD8502	Removed	KHB0630SE5R or KHB0630SE5
uller Isolator + Pelha	3L+PEN	400	KH040SD9502	Preserved	-
		630	KH063SD9502	Preserved	-
umeco switch	-	-	KH0SD108919802	Removed	No
			KH0SD108919803	Removed	No
			KH0SD108920002	Removed	No
			KH0SD108922201	Removed	No
4l	01 - N - DE	400	KH0SD108922202	Removed	No
ther	3L+N+PE	100	KH0SD107080401	Removed	No No
	31 +DEM	60	KH0SD107076901	Removed	No No
	3L+PEN	100 60	KH0SD107080402 KH0SD107076902	Removed Removed	No No
			I B HUNCH / H / BUILT		LNO

Drotoction	Dolovitu	Rating	Cotologue number	Status	Cubatitus d la
Protection	Polarity	,	Catalogue number	Status	Substitued by
Isolator and fuse carriers	3L+PE	160	KH016SB131	Removed	No
		250	KH016SB132	Removed	No
		250	KH025SB131	Removed	No
		400	KH025SB132	Removed	No
		400	KH040SB131	Removed	No
		200	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
		1.00	KH040SB242	Removed	No
		630	KH063SB241	Removed	No
		1000	KH063SB242	Removed	No
		1000	KH086SB241	Removed	No
		1000	KH086SB242	Removed	No
witch and fuse carriers	3L+PE	1000	KH086SB331	Removed	No
mon and ruse calliers		1000	KH086SB332	Removed	No
	3P+PE	250	KH025SB331		
	SETE	200		Removed	No
		100	KH025SB332	Removed	No
		400	KH040SB331	Removed	No No
		620	KH040SB332	Removed	No
		630	KH063SB331	Removed	No
	05 5511	4000	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
		1	KH086SB342	Removed	No
			1	1.15.110104	1

Canalis KH substitution by Canalis KT

Preserved KH tap-off units and substitution table

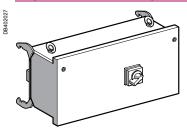
Canalis KTA

Protection	Polarity	Rating	Catalogue number	Status	Substitued by
Switch and fuse carriers (con't)	3L+PEN	250	KH025SB351	Removed	No
			KH025SB352	Removed	No
		400	KH040SB351	Removed	No
			KH040SB352	Removed	No
		630	KH063SB351	Removed	No
			KH063SB352	Removed	No
Circuit breaker manuel	3L+PE	1000	KH086SB5311	Preserved	-
			KH086SB5312	Preserved	-
	3L+N+PE	250	KH025SB5411	Removed	KH086SB5411
			KH025SB5412	Removed	KH086SB5412
		400	KH040SB5411	Removed	KH086SB5411
			KH040SB5412	Removed	KH086SB5412
	1	630	KH063SB5411	Removed	KH086SB5411
			KH063SB5412	Removed	KH086SB5412
		1000	KH086SB5411	Preserved	-
			KH086SB5412	Preserved	-
	3L+PEN	250	KH025SB5511	Removed	No
			KH025SB5512	Removed	No
		400	KH040SB5511	Removed	No
			KH040SB5512	Removed	No
		630	KH063SB5511	Removed	No
			KH063SB5512	Removed	No
		1000	KH086SB5511	Removed	No
			KH086SB5512	Removed	No
Circuit breaker electrical controle	3P+PEN	250	KH025SB5521	Removed	No
		400	KH040SB5521	Removed	No
		630	KH063SB5521	Removed	No
	3L+N+PE	250	KH025SB5421	Removed	No
			KH025SB5422	Removed	No
		400	KH040SB5421	Removed	No
			KH040SB5422	Removed	No
		630	KH063SB5421	Removed	No
			KH063SB5422	Removed	No
	3L+PEN	250	KH025SB5522	Removed	No
		400	KH040SB5522	Removed	No
		630	KH063SB5522	Removed	No
ircuit 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

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

IP31

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



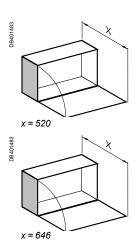
KH0eeSD5ee

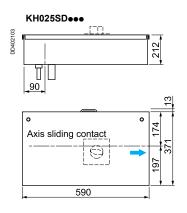
The cover of the tap-off unit may be opened or closed only when the circuit breaker

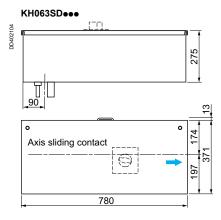
Plug-in tap-off units for extended rotary

System earthing arrangement (1)		Busbar trunking	TT-TNS-TNC-IT	TNC		
			Tap-off unit	TT-TNS-TNS-IT	TNC	
Tap-off	polarity			3L + N + PE	3L + PEN	
	diagram cuit breaker pro	tection)		L1 L2 L3 N PE	L1 L2 L3 N PE	
Rating (A)	Type of circuit breaker	Cable capacity (mm²)	Cable clamp on (mm)	Cat. no.		Weight (kg)
250	NSX250 N/H/L	1 x 150	3070	KH025SD541	KH025SD551	32.00
630	NSX630 N/H/L	2 x 300	2 x 3070	KH063SD541	KH063SD551	45.00

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





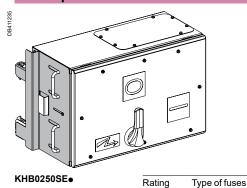


Canalis KTA

250 A tap-off units from Canalis KH range with switch-disconnector for DIN fuses

IP55

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



250

DIN size 1

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

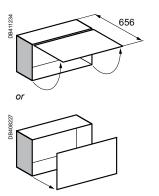
To be installed on KT EH type or on former KHF or KGF distribution length.

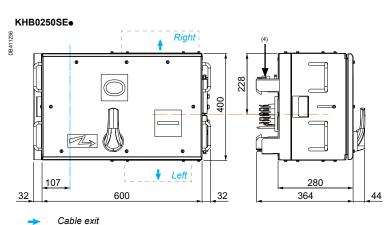
System earth		trunking		TT-TNS-TNC-IT ⁽¹⁾ TNC			
arrangement	Tap-off	Tap-off unit		TT-TNS-TNS-IT(1)			
Tap-off polar	ity			3L + N + PE ⁽²⁾	3L + PEN		
Tap-off diagra (e.g. fuse pro			DD230226	L1 L2 L3 N PE 8788200	L1 L2 L3 N PE		
Connection	Max. size (mm²) L or N / PE	Cable gland ⁽³⁾ (not supplied)		Cat. no.	Cat. no.	Weight (kg)	
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.

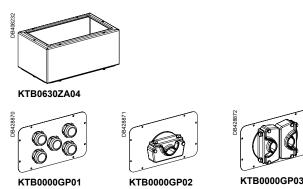




Center line of tap-off outlets
 Axis of Canalis KT

Connection box to be fitted above or below

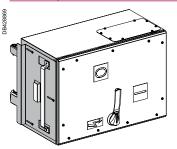
Option accessories	Cat. no.
Connecting box	KTB0630ZA04
Plate with 5 cable glands 24 to 40 mm	KTB0000GP01
Plate with 1 cable clamp 30 to 70 mm	KTB0000GP02
Plate with 2 cable clamps 30 to 70 mm	KTB0000GP03



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

IP55

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



KHB0630SE●

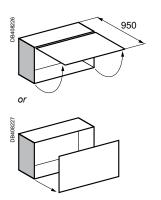
The cover of the tap-off unit may be opened or closed only when the switch-disconnector is in the Off position.

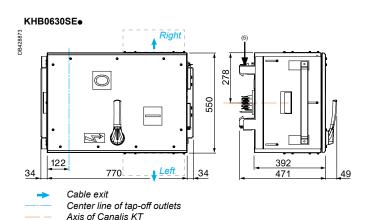
To be installed on KT EH type or on former KHF or KGF distribution length.

Tarminala	2 1 200	1	100 70	D:1-4	KUDACAACEAD		70
Connection		ze (mm²) PE (kg)	Cable gland ⁽³⁾ (not supplied)		Cat. no.	Cat. no.	Weight (kg)
Tap-off di (e.g. fuse	agram protection)			DD230226	L1 L2 L3 N PE 8788200	L1 L2 L3 N PE	
Tap-off po	larity				3L + N + PE(2)	3L + PEN	
arrangem	ent	Tap-off	unit		TT-TNS-TNS-IT(1)	TNC	
System e	arming	busbai	trunking		TI-TNS-TNC-II	INC	

						0000	66666	
Rating (A)	Type of fuses	Connection	Max. size (mm²) L or N / PE (kg)	Cable gland ⁽³⁾ (not supplied)		Cat. no.	Cat. no.	Weight (kg)
630(4)	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.





Option accessories
Cat. no.
Extension rotary handle

Connection box to be fitted above or below

Cat. no.

KTB0630

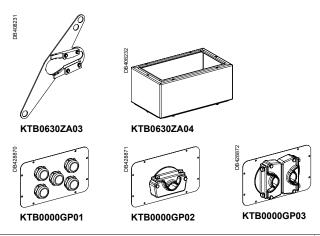
 Extension rotary handle
 KTB0630ZA03

 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

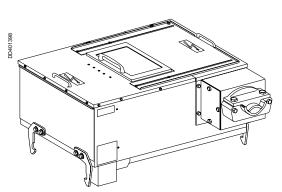


400 and 630 A tap-off units from Canalis KH with disconnector Jean Muller

Canalis KTA

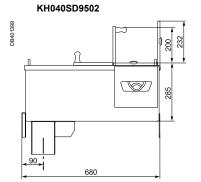
IP43

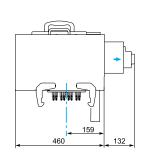
Tap-off units with disconnector internal arc tested IEC 61-641

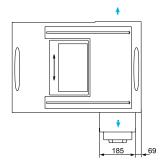


System earthing arrangement (1)			Busbar trunking	TNC	
			Tap-off unit	TNC	
Tap-of	f polarity			3L + PEN	
	f diagram ise protection)			L1 12 L3 N PE	
Ith (A)		Fuse size	Cable capacity (mm²)	Cat. no.	Weight (kg)
400	With MULLER disconnector	2	1 x 185	KH040SD9502	39.00
630	With MULLER disconnector	3	2 x 185	KH063SD9502	46.00

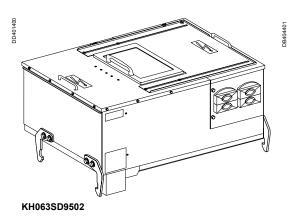
(1) These units can be fitted either on Canalis KTA or KHF.

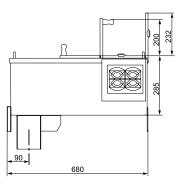


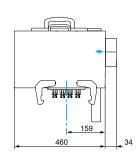


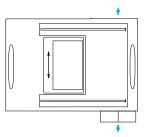


Connecting box is equipped with a 30 to 70 mm aluminium cable clamp.









Connecting plate is equipped with 4 plastic cable clamps.

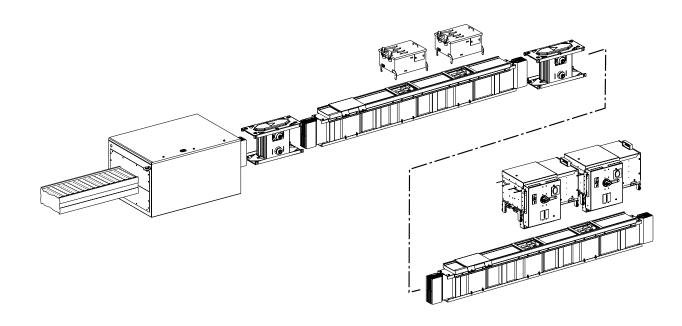




If 2 cables exit are needed, stand alone connecting box can be ordered.

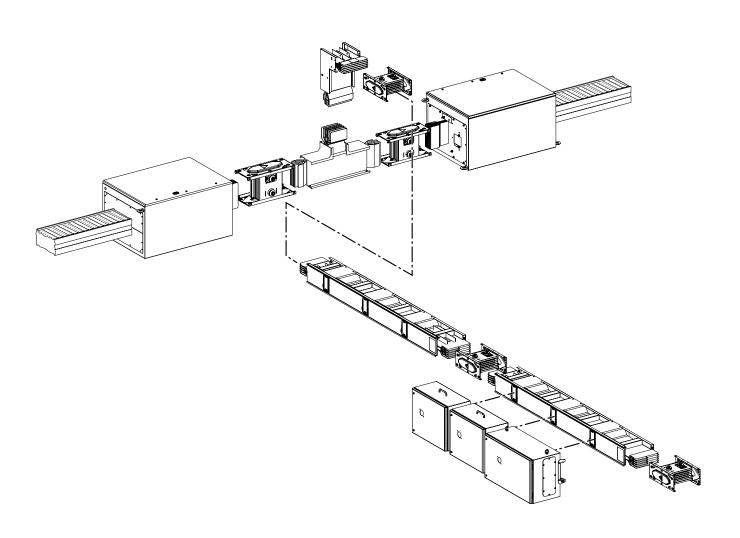
Designation	Cat. no.
Connecting box for KH040SD9502 with a 30 to 70 mm aluminium cable clamp	KH040ZA07
Connecting plate for KH063SD9502 with 4 plastic clamps	KH063ZA07

Expansion of a Canalis KH line by means of Canalis KT

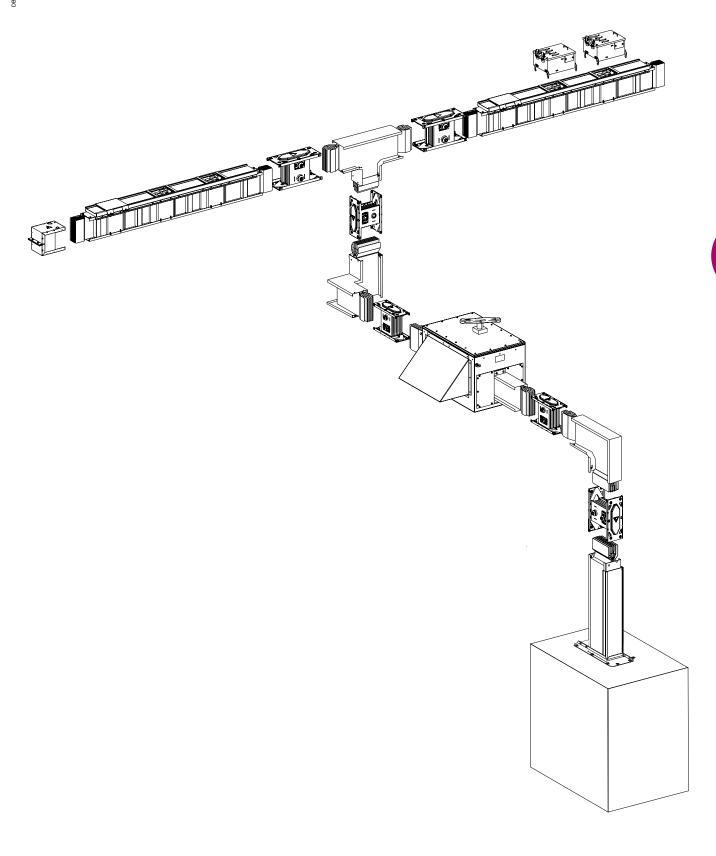


Expansion of a Canalis KH line by means of Canalis KT with a T-piece tap-off unit

Canalis KTA



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



Design guide

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Characteristics Canalis KTA 3L + PE

Canalis KTA

unaracte	eristics C	of run sections												
				Symbol	Unit			ng ratin	ĭ ` ′					
General						800	1000	1250	1600	2000	2500	3200	4000	5000
Compliance v		ls		ID.					IE	C/EN 614	139-6			
Protection de	gree			IP		Any inci	tallation (i	indoore o	alv) ie poe	55	the busba	r trunckin	a: odaov	ico
									ndition, pa		ille busba	i tiulickili	g. eugew	rise,
Shock resista	ince			IK						08				
		n ambient temperatur	e of 35°C		Α	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated insulat				Ui	V					1000				
Rated operati Operating fre	<u> </u>			Ue f	V Hz	50/60/	for 60 to	100 Hz A	C or for DO	1000	tue)			
	· · · · ·			•	112	00700(101 00 10 -	10011271	01 101 00	o, oonsui	t us)			
Short-cir	cuit cur	rent withstand												
Standard v	ersion 3L	+ PE												
		withstand current (t =	1 s)	Icw	kA	31	50	50	65	110	113	86	90	120
Allowable rate				lpk	kA	64	110	110	143	242	248	189	198	264
Maximum the				l ² t	A ² s 10 ⁶	961	2500	2500	4225	12100	12769	7396	8100	14400
•		are equipped in standa	ard versio	n with side	reinforcem	ients.								
Conduct	or chara	cteristics												
Phase con	ductors													
		ambient temperature c	of 20°C	R ₂₀	mΩ/m	0.079	0.057	0.046	0.035	0.028	0.023	0.017	0.014	0.0115
Average resis				R ₁	mΩ/m	0.096	0.069	0.056	0.042	0.034	0.028	0.021	0.017	0.014
		and at 35°C and at 50		X ₁	mΩ/m mΩ/m	0.018	0.016 0.071	0.015	0.013	0.011	0.008	0.007 0.022	0.007	0.004
PE = casin		and at 35°C and at 50) NZ	Z ₁	11122/111	0.097	0.071	0.036	0.044	0.035	0.029	0.022	0.016	0.014
		ambient temperature o	of 20°C		mΩ/m	0.223	0.198	0.184	0.162	0.144	0.130	0.108	0.094	0.065
		r cross-section)	71 ZU C		mm²	109	117	125	137	145	157	163	171	313
								1.20			1.0.			10.0
	•	cteristics							•					
Symmetrical components	Ph/PE at 20°C	Average resistance		R _{0 ph/PE}	mΩ/m	0.891	0.752	0.657	0.554	0.479	0.425	0.352	0.300	0.213
method	at 20 C	Average reactance		X _{0 ph/PE}	mΩ/m	0.762	0.586	0.478	0.364	0.286	0.231	0.170	0.131	0.116
Impedance	At 20°C	Average impedance Average resistance		Z _{0 ph/PE}	mΩ/m mΩ/m	1.172 0.160	0.953 0.115	0.812	0.663	0.558	0.484	0.391	0.328	0.242
method	A120 C	Average resistance	Ph/PE	R _{b0 ph/ph}	mΩ/m	0.585	0.489	0.395	0.318	0.263	0.226	0.030	0.031	0.020
	At Inc and	Average resistance		R _{b1 ph/ph}	mΩ/m	0.193	0.140	0.120	0.091	0.075	0.066	0.049	0.039	0.033
	at 35°C	Ü	Ph/PE	R _{b1 ph/PE}	mΩ/m	0.706	0.595	0.490	0.394	0.333	0.290	0.229	0.188	0.145
	At Inc and	Average reactance	Ph/Ph	X _{b ph/ph}	mΩ/m	0.040	0.029	0.024	0.019	0.015	0.013	0.010	0.008	0.007
	at 35°C and at 50 H	I 	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 ch		stics												
Voltage dro	pp													
					ne voltage o									
				in this tab	or the case le	orioads	concentra	ited at the	end of a	run, the v	oltage dr	ops are d	ouble tho	se snow
					ılation table	e applies t	o three-p	hase load	ls. For sin	gle-phas	e loads, tl	ne voltage	e drop giv	en in the
					vided by 1.			T						1
For a cosine	p of			1	V/100 m/A	0.0083	0.0060	0.0049	0.0037	0.0029	0.0024	0.0018	0.0015	0.0012
				0.9	V/100	0.0081	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.0012
				0.0	m/A	0.000	0.0000	0.0000	0.0000	0.0000	0.0020	0.00.0	0.00.0	0.00.12
				8.0	V/100	0.0076	0.0056	0.0047	0.0036	0.0029	0.0024	0.0018	0.0015	0.0012
				0.7	m/A	0.0000	0.0050	0.0040	0.0004	0.0007	0.0000	0.0047	0.0045	0.0044
				0.7	V/100 m/A	0.0069	0.0052	0.0043	0.0034	0.0027	0.0022	0.0017	0.0015	0.0011
Average w	eight													
3L + PE					kg/m	12	14	16	19	22	25	31	38	50
Fire load v	alue													
					kWh/m	2.1	2.9	3.2	3.9	5.7	6.2	8.9	11.2	12.4
Radiated m		eld rength 1 metre from th		R	uТ	0.4	0.5	To ==	nα	1.0	Lin	2.1		3 8
Padiated mag	anotic ticle -t						111 6		. () ()				1 2 11	, .,

μΤ

0.4

0.5

0.75

0.9

1.3

1.6

2.1

3.0

3.8

Radiated magnetic field strength 1 metre from the trunking

Canalis KTA 3L + N + PE

				Symbol	Unit	Busba	r trunki	ng ratin	g (A)					
General o	characte	ristics				800	1000	1250	1600	2000	2500	3200	4000	5000
Compliance w	ith standards	3							IEC	C/EN 614	39-6			
Protection deg	gree			IP						55				
									nly) is pos ndition, pa		he busba	r trunckin	g: edgew	ise,
Shock resistar	nce			IK		liat or ve	ertical. Se	e lest cor	idition, pa	ige 172. 08				
		n ambient temperature	e of 35°C	Inc	Α	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated insulation		rambioni tomporatare	0.000	Ui	V	000	1000	1200	1000	1000	2000	0200	1000	10000
Rated operatir	ng voltage			Ue	V					1000				
Operating freq	quency			f	Hz	50/60 (for 60 to 4	100 Hz A0	or for DO	C, consult	tus)			
Short-cire	cuit curr	ent withstand												
Standard ve														
		withstand current (t =	1 s)	Icw	kA	31	50	50	65	70	80	86	90	120
Allowable rate			,	lpk	kA	64	110	110	143	154	176	189	198	264
Maximum ther	mal stress l2	t (t = 1 s)		l²t	A ² s 10 ⁶	961	2500	2500	4225	4900	6400	7396	8100	14400
Reinforced	version 3L	_ + N + PE for 250	0 A and	3200 A c	nly									
		withstand current (t =	1 s)	Icw	kA	-	-	-	-	-	113	113	-	-
Allowable rate	<u> </u>	nt		lpk	kA	-	-	-	-	-	248	248	-	-
Maximum ther				l²t	A ² s 10 ⁶	-	-	<u> </u> -	-	-	12769	12769	-	-
Conducto	or chara	cteristics												
Phase cond	luctors													
		mbient temperature o	f 20°C	R ₂₀	mΩ/m	0.079	0.057	0.046	0.035	0.028	0.023	0.017	0.014	0.0115
Average resist				R ₁	mΩ/m	0.096	0.069	0.056	0.042	0.034	0.028	0.021	0.017	0.014
		ind at 35°C and at 50 I		X ₁	mΩ/m	0.018	0.016	0.015	0.013	0.011	0.008	0.007	0.007	0.004
		and at 35°C and at 50	ΠZ	Z ₁	mΩ/m	0.097	0.071	0.058	0.044	0.035	0.029	0.022	0.018	0.014
PE = casing	•	mbient temperature o	f 20°C		mΩ/m	0.223	0.198	0.184	0.162	0.144	0.130	0.108	0.094	0.065
Casing (equiva		•	120 0		mm ²	109	117	125	137	145	157	163	171	313
						.00	1	.20	1.0.	10		100		10.0
Fault loop				D		0.045	0.040	0.000	0.450	0.400	0.444	0.000	0.000	0.050
Symmetrical components	at 20°C	Average resistance Average reactance		R _{0 ph/N}	mΩ/m mΩ/m	0.345	0.248	0.209	0.159 0.067	0.128 0.054	0.111	0.083	0.066 0.028	0.056
method	4.20 0	Average impedance		Z _{0 ph/N}	mΩ/m	0.143	0.103	0.007	0.007	0.034	0.120	0.033	0.028	0.023
Ē	Ph/PE	Average resistance		R _{0 ph/PE}	mΩ/m	0.891	0.752	0.657	0.554	0.479	0.425	0.352	0.300	0.213
	at 20°C	Average reactance		X _{0 ph/PE}	mΩ/m	0.762	0.586	0.478	0.364	0.286	0.231	0.170	0.131	0.116
		Average impedance		Z _{0 ph/PE}	mΩ/m	1.172	0.953	0.812	0.663	0.558	0.484	0.391	0.328	0.242
	At 20°C	Average resistance	Ph/Ph	$R_{b0ph/ph}$	mΩ/m	0.160	0.115	0.097	0.073	0.059	0.051	0.038	0.031	0.026
method			Ph/N	R _{b0 ph/N}	mΩ/m	0.161	0.115	0.097	0.074	0.059	0.052	0.039	0.031	0.026
	At Inc and	Average registence	Ph/PE Ph/Ph	R _{b0 ph/PE}	$m\Omega/m$ $m\Omega/m$	0.585	0.489 0.140	0.395	0.318	0.263 0.075	0.226	0.179 0.049	0.147	0.114
	at 35°C	Average resistance	Ph/N	R _{b1 ph/ph}	mΩ/m	0.193	0.140	0.120	0.091	0.075	0.066	0.049	0.039	0.033
				R _{b1 ph/PE}	mΩ/m	0.706	0.595	0.490	0.394	0.333	0.290	0.229	0.039	0.033
	At Inc and	Average reactance	Ph/Ph	X _{b ph/ph}	mΩ/m	0.040	0.029	0.024	0.019	0.015	0.013	0.010	0.008	0.007
	at 35°C	· ·	Ph/N	$X_{b,ph/N}$	mΩ/m	0.064	0.047	0.040	0.030	0.024	0.021	0.016	0.013	0.011
	and at 50 Hz	Z 	Ph/PE	$X_{bph/PE}$	mΩ/m	0.426	0.329	0.275	0.212	0.170	0.141	0.106	0.084	0.071
Other cha	aracteris	tics												
Voltage dro														
					e voltage o									
				the run. For	or the case	of loads o	concentra	ited at the	end of a	run, the v	oltage dr	ops are de	ouble tho	se show
					lation table	applies t	o three-p	hase load	ls. For sin	gle-phas	e loads, tl	ne voltage	drop giv	en in the
					vided by 1.			1				1		1
For a cosine φ	of			1	V/100 m/A	0.0083	0.0060	0.0049	0.0037	0.0029	0.0024	0.0018	0.0015	0.0012
				0.9	V/100	0.0081	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.0012
					m/A						1.0020			
				0.8	V/100	0.0076	0.0056	0.0047	0.0036	0.0029	0.0024	0.0018	0.0015	0.0012
				0.7	m/A	0.0000	0.0050	0.0040	0.0004	0.0007	0.0000	0.0017	0.0015	0.004
				0.7	V/100 m/A	0.0069	0.0052	0.0043	0.0034	0.0027	0.0022	0.0017	0.0015	0.0011
A	1-1-4										1			
Average we 3L + N + PE	eight				ka/m	12	16	10	22	26	20	27	A F	60
SL + IN + PE					kg/m	13	16	18	22	26	30	37	45	60
	lue													
Fire load va					kWh/m	2.5	3.6	4.1	5.9	7.3	8.0	11.5	14.4	16
Fire load va											1 4 . 4			
	agnetic fie	eld				2.0	1		1	1	1000	10		
Radiated ma		eld ength 1 metre from th	e	В	μT	0.4	0.5	0.75	0.9	1.3	1.6	2.1	3.0	3.8

Characteristics

Canalis KTA 3L + N + PER

With an internal aluminium PE conductor

Canalis KTA

				Symbol	Unit	Busba	r trunki	ng ratin	g (A)					
General	characto	ristics		J ,111501	J.I.K	800	1000	1250	1600	2000	2500	3200	4000	5000
Compliance v							1000	.200		C/EN 614		0200	1000	0000
Protection de		<u> </u>		IP					1,2,	55	00 0			
	5					Any ins	tallation (i	ndoors o	nly) is pos	sible for t	he busba	ır trunckir	ng: edgew	ise,
						flat or ve	ertical. Se	e test co	ndition, pa	ge 172.				
Shock resista				IK				1		80			1	
		n ambient temperature	e of 35°C	Inc Ui	A	800	1000	1250	1600	2000	2500	3200	4000	5000
	nted insulation voltage uted operating voltage				V					1000				
				Ue f	V	50/00/	f CO t /	100 - 40) f D	1000				
Operating fre	quency			Т	Hz	50/60(for 60 to 4	IUU HZ AU	OF TOT DO	, consult	us)			
Short-cir	cuit curi	ent withstand												
Allowable rate	ed short-time	withstand current (t =	1 s)	Icw	kA	31	50	50	65	70	80	86	90	120
Allowable rate	ed peak curre	ent		lpk	kA	64	110	110	143	154	176	189	198	264
Maximum the	rmal stress l	²t (t = 1 s)		I ² t	A ² s 10 ⁶	961	2500	2500	4225	4900	6400	7396	8100	14400
Conduct	or chara	cteristics												
Phase con		0101131103												
		ambient temperature o	f 20°C	R ₂₀	mΩ/m	0.079	0.057	0.046	0.035	0.028	0.023	0.017	0.014	0.0115
Average resis		· · · · · · · · · · · · · · · · · · ·	_, ,	R ₁	mΩ/m	0.096	0.069	0.056	0.042	0.020	0.028	0.021	0.017	0.014
		and at 35°C and at 50	Hz	X ₁	mΩ/m	0.018	0.016	0.015	0.013	0.011	0.008	0.007	0.007	0.004
		and at 35°C and at 50		Z ₁	mΩ/m	0.097	0.071	0.058	0.044	0.035	0.029	0.022	0.018	0.014
PE = intern	al alumini	um protective con	ductor				•	-	•	•	•	•	•	
		mbient temperature o			mΩ/m	0.067	0.054	0.047	0.038	0.032	0.029	0.023	0.019	0.014
Aluminium cr	oss-section				mm²	210	300	360	480	600	720	960	1200	1440
Equit los	n oboro	storiction												
Fault loo Symmetrical	•			D	mΩ/m	0.345	0.248	0.209	0.159	0.128	0.111	0.083	0.066	0.056
components	at 20°C	Average resistance Average reactance		R _{0 ph/N}	mΩ/m	0.345	0.246	0.209	0.159	0.126	0.111	0.003	0.000	0.036
method	4.20 0	Average impedance		$Z_{0 \text{ ph/N}}$	mΩ/m	0.143	0.103	0.007	0.007	0.034	0.040	0.033	0.028	0.023
	Ph/PE	Average impedance Average resistance		R _{0 ph/PE}	mΩ/m	0.506	0.360	0.303	0.172	0.133	0.162	0.120	0.096	0.081
	at 20°C	Average reactance		X _{0 ph/PE}	mΩ/m	0.236	0.168	0.142	0.108	0.087	0.075	0.057	0.045	0.038
		Average impedance		Z _{0 ph/PE}	mΩ/m	0.559	0.398	0.334	0.254	0.204	0.178	0.133	0.106	0.090
Impedance At 20°C method	At 20°C	Average resistance	Ph/Ph	R _{b0 ph/ph}	mΩ/m	0.160	0.115	0.097	0.073	0.059	0.051	0.038	0.031	0.026
	J	Ph/N	R _{b0 ph/N}	mΩ/m	0.161	0.115	0.097	0.074	0.059	0.052	0.039	0.031	0.026	
		_	Ph/PE	R _{b0 ph/PE}	mΩ/m	0.183	0.132	0.112	0.085	0.068	0.060	0.045	0.035	0.030
	At Inc and	Average resistance	Ph/Ph	R _{b1 ph/ph}	mΩ/m	0.193	0.140	0.120	0.091	0.075	0.066	0.049	0.039	0.033
	at 35°C		Ph/N	R _{b1 ph/N}	mΩ/m	0.194	0.140	0.120	0.092	0.075	0.066	0.049	0.039	0.033
			Ph/PE	R _{b1 ph/PE}	mΩ/m	0.221	0.160	0.137	0.106	0.087	0.078	0.058	0.037	0.040
	At Inc and	Average reactance	Ph/Ph	$X_{b ph/ph}$	mΩ/m	0.040	0.029	0.024	0.019	0.015	0.013	0.010	0.008	0.007
	at 35°C and at 50 H	7	Ph/N	X _{b ph/N}	mΩ/m	0.064	0.047	0.040	0.030	0.024	0.021	0.016	0.013	0.011
	and at 50 m		Ph/PE	$X_{b ph/PE}$	mΩ/m	0.095	0.069	0.058	0.044	0.036	0.031	0.023	0.019	0.016
Other ch	aracteris	stics												
Voltage dro	ac													
	•			Line-to-lir	ne voltage o	drop, in vo	lts (V) pe	r 100 met	res and p	er amp (A	at 50 H	z with loa	d spread	over
					or the case	of loads	concentra	ted at the	end of a	run, the v	oltage dr	ops are d	ouble tho	se show
				in this tab	ie. Jation table	annlies t	o three-n	hasa load	le Forein	ale_nhae	aloade ti	he voltag	e dron aiv	on in the
					vided by 1.		. с ин сс-р	iase iudi	. i Ui 3III	Aic-hiiasi	o ioaus, li	ie voltagi	c arop giv	on all alt
For a cosine	p of			1	V/100	_	0.0060	0.0049	0.0037	0.0029	0.0024	0.0018	0.0015	0.0012
	-				m/A									
				0.9	V/100	0.0081	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.0012
				0.0	m/A	0.0075	0.0055	0.00.1=	0.0000	0.0000	0.0007	0.0015	0.0015	0.001
				8.0	V/100 m/A	0.0076	0.0056	0.0047	0.0036	0.0029	0.0024	0.0018	0.0015	0.0012
				0.7	V/100	0.0069	0.0052	0.0043	0.0034	0.0027	0.0022	0.0017	0.0015	0.0011
				3.1	m/A	1	0.0002	0.0040	0.0004	0.0027	0.0022	0.0017	0.0010	0.0011
						_		•	R.				•	
Average w	eight													
3L + N + PER					kg/m	15	19	21	26	31	36	46	56	72
Fire load v	alue													
					kWh/m	2.5	3.6	4.1	5.9	7.3	8.0	11.5	14.4	16
Radiated m	nagnetic fie	eld												
Radiated mad	netic field st	rength 1 metre from th	е	В	μT	0.4	0.5	0.75	0.9	1.3	1.6	2.1	3.0	3.8
trunking	,													

With an internal copper PE conductor and reinforced Icw

		of run sections		Symbol	Unit	Busha	ır trunki	ng ratin	a (A)					
General	characto	rietice		Cyllibol	Ont	800	1000	1250	1600	2000	2500	3200	4000	5000
Compliance v						000	1000	1200		C/EN 614		3200	4000	3000
Protection de				IP		Any ins	tallation (ndoors or		55		r trunckir	a. equem	ise
								e test cor			iic basba	i d'alloitii	ig. cagew	150,
Shock resista				IK						08				
		n ambient temperatur	e of 35°C	Inc	A	800	1000	1250	1600	2000	2500	3200	4000	5000
Rated insulati				Ui Ue	V	1000								
Rated operation operation of the control operation operation of the control operation				f	Hz	50/60/	for 60 to	400 Hz AC	or for D	1000	.118)			
_ · <u>·</u>		ront withotond			112	00700	101 00 10 -	100112710	7 OI 101 D	o, consum	. us _j			
		rent withstand withstand current (t =		Icw	kA	35	65	65	85	110	113	113	120	120
Allowable rate		,	18)	lpk	kA	73	143	143	187	242	248	248	264	264
Maximum the		511C		I ² t	A ² s.10 ⁶	1225	4225	4225	7225	12100	12769	12769	14400	14400
		cteristics									1			
Phase con		cteristics												
		ambient temperature o	of 20°C	R ₂₀	mΩ/m	0.079	0.057	0.046	0.035	0.028	0.023	0.017	0.014	0.0115
Average resis				R ₁	mΩ/m	0.096	0.069	0.056	0.042	0.034	0.028	0.021	0.017	0.014
Average reac	tance at Inc a	and at 35°C and at 50	Hz	X ₁	mΩ/m	0.018	0.016	0.015	0.013	0.011	0.008	0.007	0.007	0.004
		and at 35°C and at 50		Z ₁	mΩ/m	0.097	0.071	0.058	0.044	0.035	0.029	0.022	0.018	0.0145
		protective condu					1						1	1.
		ambient temperature o	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 loo	p charac	cteristics												
Symmetrical		Average resistance		$R_{0 ph/N}$	mΩ/m	0.345	0.248	0.209	0.159	0.128	0.111	0.083	0.066	0.056
components method	at 20°C	Average reactance		X _{0 ph/N}	mΩ/m	0.143	0.103	0.087	0.067	0.054	0.046	0.035	0.028	0.023
Ph/PE at 20°C	DL/DE	Average impedance	:	Z _{0 ph/N}	mΩ/m	0.373	0.269	0.226	0.172	0.139	0.120	0.090	0.072	0.060
		Average resistance		R _{0 ph/PE}	mΩ/m mΩ/m	0.254	0.191	0.165 0.077	0.129 0.062	0.105 0.017	0.090	0.069	0.056	0.045
	4120 0	Average reactance Average impedance		$X_{0 \text{ ph/PE}}$ $Z_{0 \text{ ph/PE}}$	mΩ/m	0.111	0.067	0.077	0.002	0.017	0.045	0.033	0.029	0.023
Impedance	At 20°C	Average impedance	Ph/Ph	R _{b0 ph/ph}	mΩ/m	0.160	0.210	0.097	0.073	0.059	0.051	0.038	0.003	0.031
method		3	Ph/N	R _{b0 ph/N}	mΩ/m	0.161	0.115	0.097	0.074	0.059	0.052	0.039	0.031	0.026
			Ph/PE	R _{b0 ph/PE}	mΩ/m	0.138	0.101	0.086	0.066	0.053	0.045	0.033	0.028	0.023
	At Inc and	Average resistance	Ph/Ph	R _{b1 ph/ph}	mΩ/m	0.193	0.140	0.120	0.091	0.075	0.066	0.049	0.039	0.033
	at 35°C		Ph/N	R _{b1 ph/N}	mΩ/m	0.194	0.140	0.120	0.092	0.075	0.066	0.049	0.039	0.033
	A. I.		Ph/PE	R _{b1 ph/PE}	mΩ/m	0.166	0.123	0.105	0.080	0.067	0.057	0.042	0.036	0.029
	At Inc and at 35°C	Average reactance	Ph/Ph Ph/N	X _{b ph/ph}	mΩ/m mΩ/m	0.040	0.029	0.024	0.019	0.015 0.024	0.013	0.010	0.008	0.007
	and at 50 H	z	Ph/PE	$X_{b ph/N}$ $X_{b ph/PE}$	mΩ/m	0.004	0.047	0.040	0.030	0.024	0.021	0.010	0.013	0.011
Other ch	orootori	otico		b pn/PE	11127111		10.00				10.0.0			
Voltage dro		Sucs												
voitage uit	γþ			l ine-to-lir	ne voltage o	drop in vo	olts (V) pe	r 100 met	res and p	er amp (A	() at 50 H	z with loa	d spread	over the
				run. For th	ne case of I									
				this table.	ulation table	annline i	to throo n	hasa laad	e Forein	alo phae	o loade th	no voltag	o drop giv	on in the
					vided by 1.		io iiiiee-p	nase ioau	S. FUI SIII	igie-pilas	e ioaus, ii	ie voitagi	e alop giv	eninue
For a cosine	ρ of			1	V/100	0.0083	0.0060	0.0049	0.0037	0.0029	0.0024	0.0018	0.0015	0.0012
				0.0	m/A V/100	0.0001	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.0012
				0.9	m/A	0.0081	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.0012
				0.8	V/100	0.0076	0.0056	0.0047	0.0036	0.0029	0.0024	0.0018	0.0015	0.0012
					m/A									
				0.7	V/100 m/A	0.0069	0.0052	0.0043	0.0034	0.0027	0.0022	0.0017	0.0015	0.001
Average w	eight													
3L + N + PER					kg/m	15	19	21	26	31	36	46	56	72
Fire load va	alue						*		•		•	- 18		
	,				kWh/m	2.5	3.6	4.1	5.9	7.3	8.0	11.5	14.4	16
Radiated m														
	gnetic field st	rength 1 metre from th	ne	В	μΤ	0.4	0.5	0.75	0.9	1.3	1.6	2.1	3.0	4.5
trunking														

Other characteristics

Canalis KTA

Characteristics of run sections

Other characteristics

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

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

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

Allowable current as a function of ambient temperature

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

Where k1 = ambient temperature derating coefficient.

	Symbol	Unit	Ambiant tempe	rature 24 hours	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 155.					
Busbar trunking installed in a fire duct	k1	%	Please, see you	r sales office.				

Through-wall fire barrier

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

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

Tap-off unit characteristics

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

Derating to apply to the KTA5000

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

Determining the rating

Providing power distribution using Canalis

Canalis KTA

Apart from extreme atmospheres, Canalis can be installed anywhere!

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

For a detailed design, it is necessary to use appropriate tools, approved by control bodies, in compliance with local installation standards.

The **Ecodial** software, edited by Schneider Electric, meets this requirement perfectly.

Design order:

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

1 - Canalis busbar trunking layout

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

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

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

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

- the Idpro software to simulate the organisation of your electrical networks
- application orientated technical guides (car industry, data centers, shopping centres, etc).

2 - Identification of external influences



Protection degree

Canalis KT busbar trunking is IP55 and IPxxD by construction.

This protection degree protects the busbar trunking against:

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

It can be installed in almost all premises; for more details see the "Determining the protection degree" "Degree of protection", page 172.

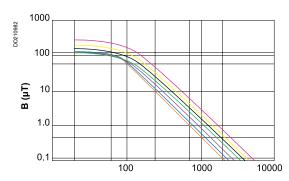
Wherever the busbar trunking must pass outside the building, an aluminium roof can be supplied; consult your Schneider Electric distributor for information concerning this option.

Corrosive atmosphere

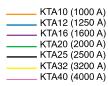
The busbar trunking has been qualified for industrial atmospheres.

For sulphurous atmospheres such as sulphur dioxide (SO₂) and hydrogen sulphide (H₂S), there is a suitable Canalis KT solution; consult your Schneider Electric distributor for more information on this option.

Example: paper mills, water treatment works, etc.



distance from the center of the Busbar (mm)



Radiated electromagnetic fields

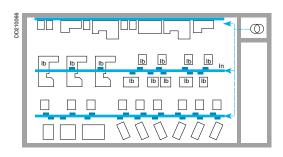
According to the WHO (World Health Organisation), exposure to radiated electromagnetic fields above 0.2 micro Tesla can be dangerous causing a risk of cancer over the long term. Some countries have standardised the limit: Sweden = 0.2 μ T, at a distance of 1 metre.

All electrical conductors generate a magnetic field, the strength of which is proportional to the distance between them. The Canalis busbar trunking concept (metal casing and conductors near together) helps to considerably reduce radiated electromagnetic fields.

In specific cases where particularly low values are required (computer rooms, hospitals, some offices), it is important to keep in mind the following:

- the induction generated around 3-phase distribution. This is proportional to the current and the distance between the conductors, and inversely proportional to the square of the distance with respect to the busbar trunking and the screening effect of the case
- the induction generated around busbar trunking. This is less than the induction generated around an equivalent cable distribution
- Canalis' steel casing. This attenuates the induction more than an equivalent aluminium casing of the same thickness (screening effect)
- the induction generated around busbar trunking with sandwiched bars. This is particularly low because of the short distance between the bars and the additional attenuation provided by the steel casing.

3 - Determining the current rating (lb)



Calculation of the total current (lb) 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 = \sum Ib load x Ks

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

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

Caution: for industrial installations, remember to take into account future increases in the number of machines. A 20 % reserve is recommended.

4 - Calculating nominal current (In) by applying a derating coefficient

Ambient temperature

Canalis busbar trunking is sized to operate at an average ambient temperature of +35°C. Above this value, the busbar trunking must be derated.

Example: Canalis KTA1250 A installed inside with an ambient temperature of 45° C: In = $1250 \times 0.93 = 1162$ A.

 $ln \ge lb \times k1 = lz$

Where k1 = ambient temperature derating coefficient.

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

Sizing the busbar trunking

Canalis KTA

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

Nominal current In (A)	Busbar trunking
0 to 800	KTA0800
801 to 1000	KTA1000
1001 to 1250	KTA1250
1251 to 1600	KTA1600
1601 to 2000	KTA2000
2001 to 2500	KTA2500
2501 to 3200	KTA3200
3201 to 4000	KTA4000
4001 to 5000	KTA5000

6 - Checking the rating with respect to allowable voltage drop

The voltage drop between the start and all points of use must not be greater than the values in the table below:

Installation supplied by:	Lighting	Other use
Low voltage public distribution network	3 %	5 %
High voltage distribution network	6 %	8 %

The allowable voltage drop is that which is compatible with correct load operation (refer to manufacturers' guides).

- Read voltage drop in V/100 m/A for the busbar trunking chosen in accordance with temperature rise.
- Determine the voltage drop for the worst case loads, i.e. those furthest from the source and for the highest current.

If the voltage drop exceeds allowable limits, choose the next rating up. Re-check the voltage drop for the new rating.

Voltage drop, in volts per 100 metres and per amp for 3-phase 50 Hz current with load spread over the run. For loads concentrated at the end of a run (transport), the voltage drops are double those shown in the table below:

Delta U for evenly distributed loads (V/100m/A)									
	KTA08	KTA10	KTA12	KTA16	KTA20	KTA25	KTA32	KTA40	KTA50
Cosine $\varphi = 1$	0.0083	0.0060	0.0049	0.0037	0.0029	0.0024	0.0018	0.0015	0.0012
Cosine $\varphi = 0.9$	0.0081	0.0060	0.0050	0.0038	0.0030	0.0025	0.0019	0.0016	0.00125
Cosine $\varphi = 0.8$	0.0076	0.0056	0.0047	0.0036	0.0029	0.0024	0.0018	0.0015	0.0012
Cosine $\varphi = 0.7$	0.0069	0.0052	0.0043	0.0034	0.0027	0.0022	0.0017	0.0015	0.0011

Example: for the KTA1600 A busbar trunking:

lb = 1530 A

In = 1600 A

Length L = 87 m

Cosine φ = 0.8.

According to the above table, the voltage drop coefficient for 100 metres and per amp is equal to 0.0036 V/100 m/A.

0.0036 x 0.87 x 1530 = 4.79 V

For a voltage = 400 V, in percentages:

4.79/400 = 0.0119 that is to say 1.2 %.

7 - Protecting against busbar trunking overloads

To allow for extensions, the busbar trunking is generally protected at its nominal current Inc (or its allowable current Iz if the ambient temperature coefficient k1 is applied).

■ Circuit breaker protection:

□ adjust Ir of the circuit breaker such that:

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

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 $\ln \leq \ln c / K2$ where K2 = 1.

■ Protection using gG (gI) fuse:

 \square determine the standardised nominal current In of the fuse such that: In \le Inc/K2 where K2 = 1.1.

□ choose the standardised rating In that is equal to or just lower.

Check the following condition: $\ln \ge \ln x + \ln x = \ln x$

If this condition is not met, choose the busbar trunking with the next rating up.

Note: using gl fuses for protection means reducing the busbar trunking's allowable current.

8 - Checking the rating and choice of circuit breaker with respect to short-circuit withstand current

Short-circuit current withstand is shown in the table below.

This value must be greater than the prospective short-circuit current, at all points of the installation.

- Calculate the short-circuit current value at the worst case points.
- Check the chosen rating allows the busbar trunking to cope with this short-circuit current.
- If this is not the case, there are 2 possible solutions:
- choose a higher rating busbar trunking and re-check
- provide a peak current limiting protection system upstream of the busbar trunking.

Warning: regarding the TNS or TNC earthing system, based on the value of L-PE fault loop impedance and the level of L-PE short-circuit, choose the correct coordination between the protection and the busbar trunking.

Canalis KT is more than sized to cope with short-circuit currents.

Some specific cases require checks to be carried out: transformers in parallel, low rating Canalis installed close to a transformer, etc.

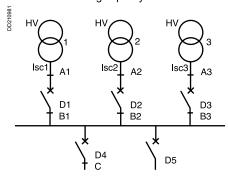
Protection of circuits supplied by several paralleled transformers

Canalis KTA

9 - Choosing source and feeder circuit breakers according to the number and rating of the supply transformers

The choice of a circuit breaker to protect a circuit depends mainly on the following 2 criteria:

- the nominal current of the source or the loads, which determines the appropriate rating of the device
- the maximum short-circuit current at the point in question, which determines the minimum breaking capacity of the device.



For the case of several parallel transformers(1):

- the source circuit breaker D1 must have a breaking capacity greater than the largest of the 2 following values:
- □ either lsc1 (short-circuit at B1)
- □ or lsc2 + lsc3 (short-circuit at A1)
- the feeder circuit breaker D4 must have a breaking capacity greater than lsc1 + lsc2 + lsc3.

The table allows the following to be determined:

- the source circuit breaker, according to the number and rating of the supply transformers (in the case of a single transformer, the table recommends a fixed circuit breaker; in the case of several transformers, the table shows a drawout circuit breaker and a fixed circuit breaker)
- the feeder circuit breaker, according to the sources and the nominal current rating of the feeder (the circuit breakers shown in the table can be replaced by limiter circuit breakers if the cascading technique is to be used with other circuit breakers downstream of the feeder).
- (1) To couple several transformers in parallel, the transformers must have the same Usc, the same transformation ratio, the same coupling and the ratio of the power rating of the 2 transformers must be less than or equal to 2.

Example:

3 incoming 1250 kVA transformers 20 kV/410 V (In = 1760 A).

Feeders: including one 2000 A feeder, one 1600 A feeder and one 1000 A feeder. What circuit breakers should be fitted at the incomer and for the feeders?

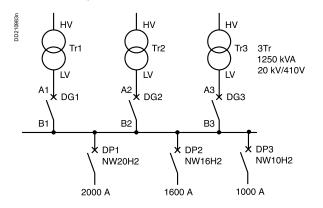
■ Incomer circuit breakers:

either the Drawout Masterpact NW20N1 or the Drawout NS2000N circuit breakers can be chosen. The choice will depend on the options required.

■ Feeder circuit breakers:

the NW20H2 for the 2000 A feeder, the NW16H2 for the 1600 A feeder and the NW10H2 for the 1000 A feeder are to be chosen.

These circuit breakers have the advantage of providing discrimination (full discrimination) with the NW12H1 or NS1250N circuit breakers.



Calculation assumption:

- the upstream network short-circuit power is not defined
- the transformers are 20 kV / 410 V
- between each transformer and corresponding circuit breaker there is 5 metres of KT busbar trunking
- between a source circuit breaker and a feeder circuit breaker there is 1 metre of
- \blacksquare the equipment is installed into a switchboard with an ambient temperature of 40°C.

Transfo	rmer			Source	Source circuit breaker	Feeder	Feeder ci	rcuit brea	ker		
P (kVA)	In (A)	Usc (%)	Isc (kA)	min. break. cap. (kA)		min. break. cap. (kA)	≤ 100 A	160 A	250 A	400 A	630 A
1 transfe	ormer										
50	70	4	2	2	NSX100N TM-D/STR22SE	2	NSX100N				
100	141	4	4	4	NSX160N TM-D/STR22SE	4	NSX100N	NSX160N			
160	225	4	6	6	NSX250N TM-D/STR22SE	6	NSX100N	NSX160N	NSX250N		
250	352	4	9	9	NSX400N STR23SE/53UE	9	NSX100N	NSX160N	NSX250N	NSX400N	
400	563	4	14	14	NSX630N STR23SE/53UE	14	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
630	887	4	22	22	NS1000N NT10H1 NW10N1 Micrologic	22	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
800	1127	6	19	19	NS1250N NT12H1 NW12N1 Micrologic	19	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
1000	1408	6	23	23	NS1600N NT16H1 NW16N1 Micrologic	23	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
1250	1760	6	29	29	NW20N1 Micrologic	29	NSX100H	NSX160N	NSX250N	NSX400N	NSX630N
1600	2253	6	38	38	NW25H1 Micrologic	38	NSX100H	NSX160H	NSX250H	NSX400N	NSX630N
2000	2816	6	47	47	NW32H1 Micrologic	47	NSX100H	NSX160H	NSX250H	NSX400H	NSX630H
2500	3521	6	59	59	NW40H1 Micrologic	59	NSX100H	NSX160H	NSX250H	NSX400H	NSX630H
2 transfe	ormers										
50	70	4	2	2	NSX100N TM-D/STR22SE	4	NSX100N	NSX160N			
100	141	4	4	4	NSX160N TM-D/STR22SE	7	NSX100N	NSX160N	NSX250N		
160	225	4	6	6	NSX250N TM-D/STR22SE	11	NSX100N	NSX160N	NSX250N	NSX400N	
250	352	4	9	9	NSX400N STR23SE/53UE	18	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
400	563	4	14	14	NSX630N STR23SE/53UE	28	NSX100H	NSX160N	NSX250N	NSX400N	NSX630N
630	887	4	22	22	NS1000N NT10H1 NW10N1 Micrologic	44	NSX100H	NSX160H	NSX250H	NSX400N	NSX630N
800	1127	6	19	19	NS1250N NT12H1 NW12N1 Micrologic	38	NSX100H	NSX160H	NSX250H	NSX400N	NSX630N
1000	1408	6	23	23	NS1600N NT16H1 NW16N1 Micrologic	47	NSX100H	NSX160H	NSX250H	NSX400H	NSX630H
1250	1760	6	29	29	NW20N1 Micrologic	59	NSX100H	NSX160H	NSX250H	NSX400H	NSX630H
1600	2253	6	38	38	NW25H1 Micrologic	75	NSX100L	NSX160L	NSX250L	NSX400L	NSX630L
2000	2816	6	47	47	NW32H1 Micrologic	94	NSX100L	NSX160L	NSX250L	NSX400L	NSX630L
2500	3521	6	59	59	NW40H1 Micrologic	117	NSX100L	NSX160L	NSX250L	NSX400L	NSX630L
3 transfe	ormers										
50	70	4	2	4	NSX100N TM-D/STR22SE	5	NSX100N	NSX160N	NSX250N		
100	141	4	4	7	NSX160N TM-D/STR22SE	11	NSX100N	NSX160N	NSX250N	NSX400N	
160	225	4	6	11	NSX250N TM-D/STR22SE	17	NSX100N	NSX160N	NSX250N	NSX400N	NSX630N
250	352	4	9	18	NSX400N STR23SE/53UE	26	NSX100H	NSX160N	NSX250N	NSX400N	NSX630N
400	563	4	14	28	NSX630N STR23SE/53UE	42	NSX100H	NSX160H	NSX250H	NSX400N	NSX630N
630	887	4	22	44	NS1000N NT10L1 NW10H1 Micrologic	67	NSX100H	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
-					Lleavelues as defined in L						

Usc values as defined in HD 428.

Coordination

Protection of busbar trunking against overloads

Canalis KTA

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:
- $\hfill \Box$ 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.

- \blacksquare Iz = Ib x k1 x k2
- □ lb : current rating
- □ Iz : allowable busbar trunking current
- □ k1 : temperature derating coefficient
- □ k2 : derating coefficient linked to the type of switchgear:
 - fuse k2 = 1.1
 - circuit breaker k2 = 1.
- \blacksquare 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 KTA25 (Iz = 2500 A)

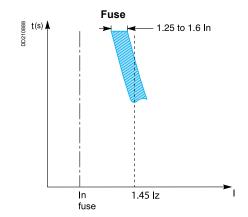
■ circuit breaker protection:

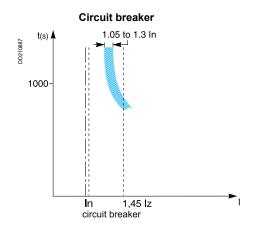
 $Iz = Ib \times k1 \times k2 = 1900 \times 1 \times 1 = 1900 A$

The correct choice of busbar trunking is the KTA20 (Iz = 2000 A), A difference of 20 % in the measurement of operating currents results in an overrating of the busbar trunking of 10 % if it is protected by fuses.

Explanations

- Calibration of thermal asymptotes:
- ☐ the distribution fuse is calibrated to operate for overloads of between 1.25 and 1.6 times its nominal current (In fuse)
- □ 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.

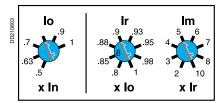
- The circuit breaker provides the possibility of fine adjustment:
- □ 5 % for circuit breakers fitted with standard thermal-magnetic trip units
- □ 3 % for circuit breakers fitted with electronic trip units.

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.

A circuit breaker with a nominal rating of 1600 A set at 1440 A would be used to protect a KTA1600 (Inc = 1440 A) busbar trunking used in an ambient temperature of 50° C (k1 = 0.9).

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.

Avdantages

This provides great flexibility for:

- modifications (flexibility), extensions (installation changes): the protective devices easily adapt to the load to be protected and to the earthing system (protection of personnel and equipment)
- maintenance, the use of this type of device considerably reduces the stocks of maintenance components.

Coordination

Protection against short-circuits

Canalis KTA

Busbar trunking characteristics

Circuit breaker 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 lpk (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 lcw (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 A2s.

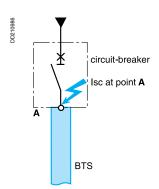
This characteristic represents the instantaneous thermal stress withstand of the busbar trunking. In general, if the short-circuit generates fault conditions compatible with the first two characteristics, this constraint is "automatically satisfied".

The circuit breaker must satisfy the requirements of product construction standards (IEC 60947-2, etc) and installation standards (IEC 60364 or those in force in the country concerned), i.e. have a breaking capacity lcu⁽¹⁾ greater than the prospective short-circuit current 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

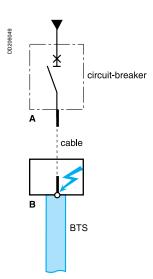


When the busbar trunking is directly protected, the circuit breaker must be chosen

- Icu of the circuit breaker > prospective Isc at point A
- I peak of the busbar trunking > prospective asymmetrical or limited lsc at point A
- busbar trunking thermal withstand lcw > thermal stress through the busbar trunking.

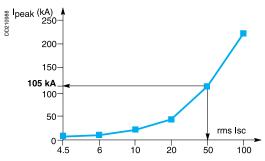
When the busbar trunking is protected downstream of a cable, the circuit breaker must be chosen as follows:

- Icu of the circuit breaker > prospective Isc at point A
- I peak of the busbar trunking > prospective asymmetrical or limited lsc at point B
- busbar trunking thermal withstand lcw > thermal stress through the busbar trunking.

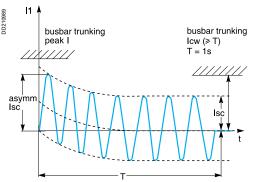


Circuit breaker/busbar trunking coordination

Non-limiting or time-delayed circuit breaker



Current value of the 1st peak as a function of lsc 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.

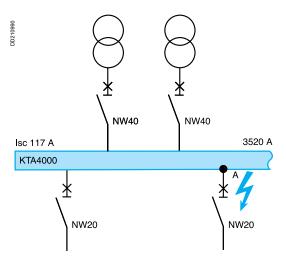
Standardised table for calculating asymmetrical short-circuit values

lsc: 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 kÅ (50 kA x 2.1), see figure opposite.

The short-time withstand value (lcw) of the busbar trunking must be greater than the current flowing through the installation during the duration of the short-circuit (lsc) (duration T - total breaking time - including any time delay).



At point A, the prospective short-circuit current is 117 kArms. To meet this constraint, a reinforced KTA4000 is needed because: lcw KTA4000 > lsc prospective at point A.

The lcw or lpk values of standard or reinforced KTA trunking allow the easy construction of circuits with time discrimination, even with high short-circuit values.

Circuit breaker/busbar trunking coordination

Limiter circuit breaker

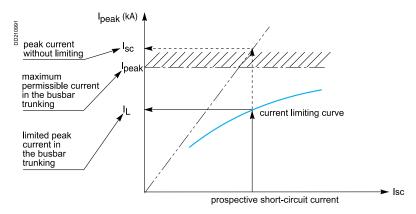
Canalis KTA

This is mainly applicable to the protection of busbar trunking using moulded case circuit breakers (\leq 1600 A).

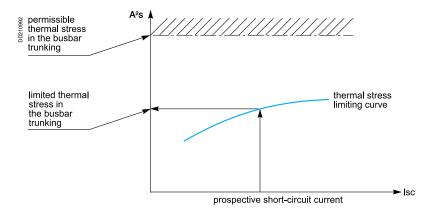
This type of circuit breaker is used for energy discrimination and is therefore often associated with Canalis KTA.

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

- the peak current (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.

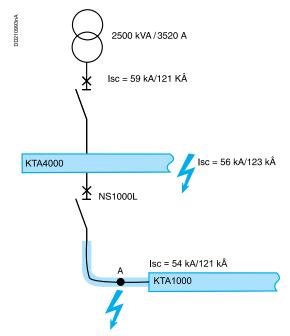
High power installation

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
- KTA1600 would be the appropriate choice of busbar trunking.

If the limiting capacity of the Compact NS1000L is taken into account, the limited lpk is 50 kÅ < 110 kÅ of the KTA1000 busbar trunking.

Because of the high limiting capacity of the Compact NS1000L, a KTA1000 busbar trunking can be installed into a prospective short-circuit current at point A of 150 kA rms or 300 kÅ.



Selection guide

Canalis KTA

The selection guide below will, according to the prospective short-circuit current of the installation, allow you to determine the type of circuit breaker needed to fully protect the busbar trunking.

Example: for an installation with a prospective lsc of 150 kA, the circuit breaker needed to protect a KTA1250 A busbar trunking is a **NS100L** or **NT10L1** (the rating depends on the circuit's nominal current).

For a voltage of 380/415 V

Type of Cana	alis busbar trunking		1		1		
	Isc max kArms		50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit		NSX630F (≥ 36 kA)	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
oreaker	Compact NS	NS630bN			NS630bL		NS630bLE
		NS800N			NS800L		NS800LB
	Masterna et MT74	NS1000N	MT74 06 L4	<u> </u>	NS1000L		_
	Masterpact MTZ1	MTZ1 06 H1/H2/H3/L1	MTZ1 06 L1 MTZ1 08 L1				
		MTZ1 08 H1/H2/H3/L1 MTZ1 10 H1/H2/H3/L1	MTZ1 06 L1				
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1	WIIZI IULI	1	1		
	Wasterpact W122	MTZ2 10 N1/H1/H2/L1					
	Masterpact NT	NT06 H1			NT06 L1		_
	aoto.paot.tt	NT08 H1			NT08 L1		
		NT10 H1			NT10 L1		
	Masterpact NW	NW08H1					
	·	NW10H1					
Type of Cana	alis busbar trunking	KTA0800 Reinforce	d short-circuit lev	el			
•	Isc max kArms	30 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit	Compact NSX	NSX630F (≥ 36 kA)	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
oreaker	Compact NS	NS630bN				NS630bL	NS630bLB
		NS800N				NS800L	NS800LB
		NS1000N				NS1000L	
	Masterpact MTZ1	MTZ1 06 H1/H2/H3/L1	MTZ1 06 L1				
		MTZ1 08 H1/H2/H3/L1	MTZ1 08 L1				
	Masternast MT70	MTZ1 10 H1/H2/H3/L1	MTZ1 10 L1	1	1		_
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1 MTZ2 10 N1/H1/H2/L1					
	Masterpact NT	NT06 H1	 	 	+	NT06 L1	_
	wasterpact ivi	NT08 H1				NT08 L1	
		NT10 H1				NT10 L1	
	Masterpact NW	NW08H1				1411021	
	Madiorpadi 1111	NW10H1					
Type of Cana	alis busbar trunking	KTA1000					
,,	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit	Compact NS		NS800N				NS800L
oreaker			NS1000N				NS1000L
			NS1250N				
	Masterpact MTZ1	MTZ1 08 H1/H2/H3/L1	MTZ1 08 H2/H3/L1	MTZ1 08 L1			
		MTZ1 10 H1/H2/H3/L1	MTZ1 10 H2/H3/L1	MTZ1 10 L1			
		MTZ1 12 H1/H2/H3	MTZ1 12 H2/H3				
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1	MTZ2 08 H1/H2/L1				
		MTZ2 10 N1/H1/H2/L1	MTZ2 10 H1/H2/L1				
	Masterpact NT	MTZ2 12 N1/H1/H2/L1 NT08H1	MTZ2 12 H1/H2/L1 NT08H2		+		NT08L1
	ινιασιστρασι ΙΝΙ	NT10H1	NT10H2				NT10L1
		NT12H1	NT12H2				IN TOL
	Masterpact NW	NW08N1	NW08H1		 	+	
		NW10N1	NW10H1				
		NW12N1	NW12H1				
Type of Cana	alis busbar trunking	KTA1000 Reinforce	d short-circuit lev				
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit	Compact NS		NS800N	NS800H			NS800L
oreaker			NS1000N	NS1000H			NS1000L
				NS1250H			
	Masterpact MTZ1	MTZ1 08 H1/H2/H3/L1	MTZ1 08 H2/H3/L1	MTZ1 08 H3/L1	MTZ1 08 L1		
		MTZ1 10 H1/H2/H3/L1	MTZ1 10 H2/H3/L1	MTZ1 10 H3/L1	MTZ1 10 L1		
		MTZ1 12 H1/H2/H3	MTZ1 12 H2/H3	MTZ1 12 H3	MT70 001 1		_
	Masterpact MTZ2	MTZ2 08 N1/H1/H2/L1	MTZ2 08 H1/H2/L1		MTZ2 08 L1		
		MTZ2 10 N1/H1/H2/L1	MTZ2 10 H1/H2/L1		MTZ2 10 L1		
	Masternaet NT	MTZ2 12 N1/H1/H2/L1	MTZ2 12 H1/H2/L1	T T	MTZ2 12 L1		NITOOL 4
ī	Masterpact NT	NT08H1 NT10H1	NT08H2 NT10H2				NT08L1 NT10L1
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IN I IUMZ	I .	1		NIIULI
			NT12H2				
	Masternact NW	NT12H1	NT12H2	NW08H1	NW08L1		
	Masterpact NW		NT12H2	NW08H1 NW10H1	NW08L1 NW10L1		

Type of Call	alis busbar trunking Isc max kArms	KTA1250 42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit oreaker			NS1000N NS1250N NS1600N				NS1000L
	Masterpact MTZ1	MTZ1 10 H1/H2/H3/L1	MTZ1 10 H2/H3/L1	MTZ1 10 L1			
	Wasterpact WTZT	MTZ1 10 H1/H2/H3 MTZ1 16 H1/H2/H3	MTZ1 12 H2/H3 MTZ1 16 H2/H3	WIZIIOLI			
	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	NW10H1 NW12H1				
Type of Can	alis busbar trunking	NW16N1 KTA1250 Reinforced	NW16H1				
Type of Carl	lsc max kArms		50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker		42 NA	NS1000N NS1250N NS1600N	NS1000H NS1250H NS1600H	USKA	100 KA	NS1000L
	Masterpact MTZ1	MTZ1 10 H1/H2/H3/L1 MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3	MTZ1 10 H2/H3/L1 MTZ1 12 H2/H3 MTZ1 16 H2/H3	MTZ1 10 H3/L1 MTZ1 12 H3 MTZ1 16 H3	MTZ1 10 L1		
	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 Cana	alis busbar trunking	KTA1600					
	lsc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
	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 NIW	NT12H1 NT16H1	NT12H2 NT16H2	NIVA/4 OL 14		NIM/4OL 4	
	Masterpact NW	NW12N1 NW16N1 NW20H1		NW12H1 NW16H1 NW20H1		NW12L1 NW16L1 NW20L1	
Type of Cana	alis busbar trunking	KTA1600 PER Reinfo					
Type of circuit oreaker		42 kA	50 kA NS1250N	65 kA NS1250H NS1600H NS1600bN NS2000N	NS1600bH NS2000H	100 kA	150 kA
	Masterpact MTZ1	MTZ1 12 H1/H2/H3 MTZ1 16 H1/H2/H3	MTZ1 12 H2/H3 MTZ1 16 H2/H3	MTZ1 12 H3 MTZ1 16 H3			
	Masterpact MTZ2	MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1	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	ANA//6:::	N11446: 15		
	Masterpact NW	NW12N1 NW16N1		NW12H1 NW16H1 NW20H1	NW12H2 NW16H2 NW20H2		NW12L1 NW16L1 NW20L1
Type of Cana	alis busbar trunking	KTA2000	E0.1.4	0514	lor i e	4001	4551
ype of circuit reaker	Isc max kArms Compact NS	42 KA	50 kA	65 kA NS1600bN NS2000N	85 kA	100 kA	150 kA
	Masterpact MTZ1 Masterpact MTZ2		MTZ1 16 H2/H3 MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/	MTZ1 16 H3 L1	MTZ2 16 L1 MTZ2 20 L1		
		MTZ2 25 H1/H2/H3	N.T. (0) 10				
	Masterpact NT Masterpact NW	NT16H1 NW16N1 NW20H1 NW25H1	NT16H2	NW16H1 NW20H1 NW25H1		NW 16 L1 NW20L1	+

Selection guide

Canalis KTA

	lis busbar trunking	KTA2000 Reinforce	50 kA	ei 65 kA	85 kA	100 kA	150 kA
ype of circuit reaker		7 <u>6</u> NA	JU KA	NS1600bN NS2000N	NS1600bH NS2000H	100 KM	100 KM
	Masterpact MTZ1	MTZ1 16 H1/H2/H3	MTZ1 16 H2/H3	MTZ1 16 H3			
	Masterpact MTZ2	MTZ2 16 N1/H1/H2/L1	MTZ2 16 H1/H2/L1		MTZ2 16 H2/L1		MTZ2 16 L1
		MTZ2 20 N1/H1/H2/H3/L1	MTZ2 20 H1/H2/H3	/L1	MTZ2 20 H2/H3/L	.1	MTZ2 20 L1
		MTZ2 25 H1/H2/H3			MTZ2 25 H2/H3		
	Masterpact NT	NT16H1	NT16H2				
	Masterpact NW	NW16N1		NW16H1		NW16H2	NW16L1
		NW20H1 NW25H1		NW20H1 NW25H1		NW20H2 NW25H2	NW20L1
Type of Cana	lis busbar trunking	KTA2500		INVVZONI		INVVZONZ	
Type of Call	lsc max kArms	42 kA	50 kA	65 kA	80 kA	100 kA	150 kA
vne of circuit	Masterpact MTZ2	MTZ2 20 H1/H2/H3/L1	OU KA	OU IVA	MTZ2 20 H2/H3/L1		MTZ2 20 L1
reaker	Madtorpadt WTZZ	MTZ2 25 H1/H2/H3			MTZ2 25 H2/H3	WITEE EO ET	WITEE EO E I
		MTZ2 32 H1/H2/H3			MTZ2 32 H2/H3		
	Masterpact NW			NW20H1	NW20H2	NW20L1	NW20L1
				NW25H1	NW25H2		
				NW32H1	NW32H2		
Type of Cana	ilis busbar trunking	KTA2500 Reinforce					
	Isc max kArms	42 kA	50 kA	65 kA	80 kA	100 kA	110 kA
ype of circuit reaker	Masterpact MTZ2	MTZ2 20 H1/H2/H3/L1			MTZ2 20 H2/H3/L	.1	MTZ2 20 H3/L1
reaker		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3			MTZ2 25 H2/H3 MTZ2 32 H2/H3		MTZ2 25 H3 MTZ2 32 H3
	Masterpact NW	171 1 ZZ 0Z 11 1/1 1Z/1 10		NW20H1	WITE OF 112/110	NW20H2	NW20L1 (150 k/
	Masterpactivi			NW25H1		NW25H2	NW25H3
				NW32H1		NW32H2	NW32H3
Type of Cana	lis busbar trunking	KTA3200					
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
ype of circuit	Masterpact MTZ2	MTZ2 25 H1/H2/H3		•	MTZ2 25 H2/H3		
reaker		MTZ2 32 H1/H2/H3			MTZ2 32 H2/H3		
		MTZ2 40 H1/H2/H3			MTZ2 40 H2/H3		
	Masterpact MTZ3	MTZ3 40 H1/H2		T	1		
	Masterpact NW			NW25H1	NW25H2		
				NW32H1 NW40H1	NW32H2 NW40H2		
				1444-0111	NW40H2 NW40bH1		
Type of Cana	lis busbar trunking	KTA3200 Reinforce	short-circuit lev	rel	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		
	Isc max kArms	42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
Type of circuit	Masterpact MTZ2	MTZ2 25 H1/H2/H3	•	•	MTZ2 25 H2/H3	•	MTZ2 25 H3
reaker		MTZ2 32 H1/H2/H3			MTZ2 32 H2/H3		MTZ2 32 H3
		MTZ2 40 H1/H2/H3			MTZ2 40 H2/H3		MTZ2 40 H3
	Masterpact MTZ3	MTZ3 40 H1/H2		NIMOELIA	1	NIMOTHO	MTZ3 40 H2
	M 4 4 N I N A /			NW25H1			
	Masterpact NW					NW25H2	MMOOLO
	Masterpact NW			NW32H1		NW32H2	NW32H3
	Masterpact NW					NW32H2 NW40H2	NW40H3
Type of Cana	·	KTA4000		NW32H1		NW32H2	
Type of Cana	ilis busbar trunking	KTA4000 42 kA	50 kA	NW32H1 NW40H1	90 kA	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
•	ılis busbar trunking Isc max kArms	KTA4000 42 kA MTZ2 32 H1/H2/H3	50 kA	NW32H1	90 kA MTZ2 32 H2/H3	NW32H2 NW40H2	NW40H3
Type of circuit	ilis busbar trunking	42 kA	50 kA	NW32H1 NW40H1		NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
ype of circuit	ılis busbar trunking Isc max kArms	42 kA MTZ2 32 H1/H2/H3	50 kA	NW32H1 NW40H1	MTZ2 32 H2/H3	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
	llis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	50 kA	NW32H1 NW40H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
Type of circuit	llis busbar trunking Isc max kArms Masterpact MTZ2	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2	50 kA	NW32H1 NW40H1 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
ype of circuit	llis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2	50 kA	NW32H1 NW40H1 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
ype of circuit	llis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2	50 kA	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
ype of circuit reaker	Ilis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2		NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
Type of circuit preaker	Ilis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40H1 NW50H1	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2
Type of circuit breaker	Masterpact MTZ3 Masterpact NW Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced		NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2 110 kA
Type of circuit Type of Cana	Ilis busbar trunking Isc max kArms Masterpact MTZ2 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2 110 kA 120 kA MTZ2 32 H3
ype of circuit reaker Type of Cana	Masterpact MTZ2 Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NTZ2	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1	NW32H2 NW40H2 NW40bH1	110 kA 120 kA MTZ2 32 H3 MTZ2 40 H3
ype of circuit reaker Type of Cana	Masterpact MTZ3 Masterpact NW Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H2 NW40bH1	NW40H3 NW40bH2 110 kA 120 kA MTZ2 32 H3
Type of circuit Type of Cana	Masterpact MTZ2 Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NW Masterpact NTZ2	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3 MTZ2 34 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H2 NW40bH1	110 kA 120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2
Type of circuit Type of Cana	Masterpact MTZ3 Masterpact NW Masterpact NW Masterpact NW Masterpact MTZ3 Masterpact NW Masterpact NW Masterpact MTZ3 Masterpact MTZ3	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3 MTZ2 34 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 vel 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H2 NW40bH1 100 kA	110 kA 110 kA 120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2
Type of circuit Type of Cana	Masterpact MTZ3 Masterpact NW Masterpact NW Masterpact NW Masterpact MTZ3 Masterpact NW Masterpact NW Masterpact MTZ3 Masterpact MTZ3	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforce 42 kA MTZ2 32 H1/H2/H3 MTZ2 34 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 40 H1/H2	d short-circuit lev	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 65 kA NW32H1 NW40H1 NW40H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1	110 kA 110 kA 110 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40H3
Type of circuit reaker Type of Cana Type of circuit reaker	Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Misserpact NW Misserpact MTZ2 Masterpact MTZ2 Masterpact MTZ2 Masterpact MTZ2 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2	d short-circuit lev 50 kA	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 rel 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3	NW32H2 NW40H1 100 kA	110 kA 110 kA 110 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3
Type of circuit reaker Type of Cana Type of circuit reaker	Masterpact MTZ3 Masterpact NW Masterpact NW Miss busbar trunking Isc max kArms Masterpact MTZ2 Masterpact NW Masterpact MTZ2 Masterpact MTZ3 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 30 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2 MTZ3 50 H1/H2 MTZ3 50 H1/H2	d short-circuit lev 50 kA Reinforced shor	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 65 kA NW32H1 NW40H1 NW40H1 NW40H1 NW50H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1 NW50H1	120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 50 H2 NW32H3 NW40H3 NW40H2 NW50H2
Type of Cana Type of Cana Type of circuit reaker	Masterpact MTZ3 Masterpact NW Masterpact NW Misserpact MTZ3 Masterpact NW Misserpact MTZ2 Masterpact MTZ2 Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Misserpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 30 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2 MTZ3 50 H1/H2 MTZ3 50 H1/H2	d short-circuit lev 50 kA Reinforced shor 50 kA	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 NW50H1 65 kA NW32H1 NW40H1 NW40H1 NW50H1 NW50H1	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1	110 kA 110 kA 110 kA 110 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 50 H2 NW32H3 NW40H3 NW40H2 NW50H2 120 kA
Type of Cana Type of Cana Type of Circuit Type of Circuit Type of Cana	Masterpact MTZ3 Masterpact NW Masterpact NW Miss busbar trunking Isc max kArms Masterpact MTZ2 Masterpact NW Masterpact MTZ2 Masterpact MTZ3 Masterpact MTZ3 Masterpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 30 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2 MTZ3 50 H1/H2 MTZ3 50 H1/H2	d short-circuit lev 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 rel 65 kA NW32H1 NW40H1 NW40H1 NW50H1 NW50H1 t-circuit level 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3 90 kA MTZ2 32 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1 NW50H1	120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40H2 NW50H2
Type of Cana Type of Cana Type of circuit oreaker Type of Cana	Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Mis busbar trunking	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 30 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2 MTZ3 50 H1/H2 MTZ3 50 H1/H2	Reinforced shor 50 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 rel 65 kA NW32H1 NW40H1 NW40H1 NW50H1 NW50H1 t-circuit level 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1 NW50H1	120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40H2 NW50H2 120 kA MTZ2 32 H3 MTZ2 40 H3
Type of Cana Type of Cana Type of circuit oreaker Type of Cana	Masterpact MTZ3 Masterpact NW Masterpact NW Misserpact MTZ3 Masterpact NW Misserpact MTZ2 Masterpact MTZ2 Masterpact MTZ2 Masterpact MTZ3 Masterpact NW Misserpact NW	42 kA MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3 MTZ3 40 H1/H2 MTZ3 50 H1/H2 KTA4000 Reinforced 42 kA MTZ2 32 H1/H2/H3 MTZ2 30 H1/H2/H3 MTZ3 40 H1/H2/H3 MTZ3 50 H1/H2 MTZ3 50 H1/H2 MTZ3 50 H1/H2	d short-circuit lev 50 kA Reinforced shor 50 kA MTZ2 32 H1/H2/H3	NW32H1 NW40H1 65 kA NW32H1 NW40H1 NW50H1 rel 65 kA NW32H1 NW40H1 NW40H1 NW50H1 NW50H1 t-circuit level 65 kA	MTZ2 32 H2/H3 MTZ2 40 H2/H3 NW32H2 NW40H2 NW40bH1 NW50H1 90 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3 90 kA MTZ2 32 H2/H3	NW32H2 NW40H1 100 kA 100 kA NW32H2 NW40H2 NW40H1 NW50H1	120 kA MTZ2 32 H3 MTZ2 40 H3 MTZ3 40 H2 MTZ3 50 H2 NW32H3 NW40H3 NW40H2 NW50H2

(1) L1 up to 150 kA.

For a voltage of 660 / 690 V

	age of 660 / 690 V							
Type of Can	alis busbar trunking		30 kV	12 kA	50 kA	GE LA	75 kA	100 50
Type of circuit	Isc max kArms	25 KA	30 kA NS800N	42 kA NS800H	50 kA	65 kA	75 kA NS800LB	100 kA
ype of circuit oreaker	Compact NS		NS1000N NS1250N	NS1000H NS1250H			N2800LB	
	Masterpact MTZ1	MTZ1 10 H1/H2/L1	MTZ1 08 H1/H2 MTZ1 10 H1/H2					
	Masterpact MTZ2	MTZ1 12 H1/H2 MTZ2 08 N1/H1/H MTZ2 10 N1/H1/ H MTZ2 12 N1/H1/H	12/L1		MTZ2 08 H1/H2/L1 MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1			
	Masterpact NT	WITZZ 12 IV 1/11 1/1	12/21	NT08H1/H2 NT10H1/H2 NT12H1/H2	WILLIE			
	Masterpact NW			NW08N1 NW10N1 NW12N1	NW08H1 NW10H1 NW12H1			
Type of Can	alis busbar trunking	KTA1000 Reinf	orced short-ci	ircuit level				
•	lsc max kArms		30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	Compact NS		NS800N NS1000N NS1250N	NS800H NS1000H NS1250H			NS800LB	
	Masterpact MTZ1	MTZ1 08 H1/H2/L1 MTZ1 10H1/H2/L1 MTZ1 12 H1/H2	MTZ1 08 H1/H2					
	Masterpact MTZ2	MTZ2 8 N1/H1/H2/L1 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 Can	alis busbar trunking	KTA1250						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
ype of circuit reaker	Compact NS		NS1000N NS1250N NS1600N	NS1000H NS1250H NS1600H				
	Masterpact MTZ1	MTZ1 08 H1/H2/L1 MTZ1 12 H1/H2 MTZ1 16 H1/H2	MTZ1 08 H1/H2		NS1600bN			
	Masterpact MTZ2	MTZ2 10 N1/H1/F MTZ2 12 N1/H1/F MTZ2 16 N1/H1/F	l2/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 Can	alis busbar trunking				LEGI A	0514	TT A	14001
Type of circuit	Isc max kArms	25 kA	30 kA NS1000N	42 kA NS1000⊔	50 kA	65 kA	75 kA	100 kA
Type of circuit oreaker	Compact NS		NS1000N NS1250N NS1600N	NS1000H NS1250H NS1600H				
	M4	MT74 00 114 // 10 // 1	MT74 00 114 // 10		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/H MTZ2 12 N1/H1/ H MTZ2 16 N1/H1/H	I2/L1		MTZ2 10 H1/H2/L MTZ2 12 H1/H2/L MTZ2 16 H1/H2/L	1	MTZ2 10 L1 MTZ2 12 L1 MTZ2 16 L1	
	Masterpact NT			NT10H1/H2 NT12H1/H2 NT16H1/H2				
	Masterpact NW			NW10N1 NW12N1 NW16N1	NW10H1 NW12H1 NW16H1	NW10H1 NW12H1 NW16H1	NW10L1 NW12L1 NW16L1	

Selection guide

Canalis KTA

Type of Cana	alis busbar trunking		30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
ype of circuit		23 KA	NS1250N	NS1250H	OU KA	03 KA	05 KA	100 KA
ype of circuit oreaker	Compactivo		NS1600N	NS1600H			1	l
. ounoi			11010011	110100011	-	NS1600bN	-	
						NS2000N		
	Masterpact MTZ1	MTZ1 12 H1/H2		•				
		MTZ1 16 H1/H2						
	Masterpact MTZ2	MTZ2 12 N1/H1/			MTZ2 12 H1/H2/L		MTZ2 12 L1	
		MTZ2 16 N1/H1/			MTZ2 16 H1/H2/L		MTZ2 16 L1	
	Masternaet NT	MTZ2 20 N1/H1/	H2/H3/L1	NT12H1/H2	MTZ2 20 H1/H2/F	13/L1	MTZ2 20 L1	-
	Masterpact NT			NT12H1/H2 NT16H1/H2				
	Masterpact NW		+	NW12N1		NW12H1	NW12L1 (≤ 75 kA)	
	Wasterpaot 1444			NW16N1		NW16H1	NW16L1 (≤ 75 kA)	
						NW20H1	NW20 L1 (≤ 75 kA)	
Type of Cana	alis busbar trunking	KTA1600 Rein	forced short-	circuit level				
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
ype of circuit	Compact NS		NS1250N	NS1250H				
oreaker			NS1600N	NS1600H				
						NS1600bN		
						NS2000N		
	Masterpact MTZ1	MTZ1 12 H1/H2					1	I
	Mostorpoot MT70	MTZ1 16 H1/H2	J2/I 1		MT72 12 14 /12 /1	1	MT72 42 112/1 4	MT72 42 L4
	Masterpact MTZ2	MTZ2 12 N1/H1/I MTZ2 16 N1/H1/I			MTZ2 12 H1/H2/L MTZ2 16 H1/H2/L		MTZ2 12 H2/L1 MTZ2 16 H2/L1	MTZ2 12 L1 MTZ2 16 L1
		MTZ2 16 N1/H1/			MTZ2 10 H1/H2/L			MTZ2 10 L1
	Masterpact NT	1V1 1 ZZ ZV IN 1/1 I 1/1		NT12H1/H2	WITE 20 111/112/1	IO, E I	1411 FE FO 1 15/1 10/1 1	W1122 20 L1
	aotorpaot (*)			NT16H1/H2				
	Masterpact NW			NW12N1		NW12H1	NW12H2 (≤ 75 kA)	NW12L1
				NW16N1		NW16H1	NW16H2 (≤ 75 kA)	NW16L1
						NW20H1	NW20H2 (≤ 75 kA)	NW20L1
Type of Cana	alis busbar trunking	KTA2000						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit	Compact NS		NS1600N	NS1600H				
breaker						NS1600bN		
						NS2000N		
	N	MT74 40 114 (110				NS2500N		
	Masterpact MTZ1	MTZ1 16 H1/H2	10/1.4		MT70 40 114 // 10 //	4	MTZO 4C L 4	
	Masterpact MTZ2	MTZ2 16 N1/H1/H2/L1			MTZ2 16 H1/H2/L MTZ2 20 H1/H2/F		MTZ2 16 L1 MTZ2 20 L1	
		MTZ2 20 N1/H1/H2/H3/L1 MTZ2 25 H1/H2/H3			WI I Z Z Z U N I / N Z / F	13/L I	- WIIZZ 20 LI	
	Masterpact NT	10112223111/112/	1	NT16H1/H2		1	_	1
	Masterpact NW			NW16N1		NW16H1		NW16L1
	Madiorpaditivi			1444 10141		NW20H1		NW20L1
						NW25H1		
							•	
Type of Cana	alis busbar trunking	KTA2000 Rein						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit	Compact NS		NS1600N	NS1600H	_		_	
breaker						NS1600bN		
						NS2000N		
	Masternaet MT74	MT71 16 114/110			+	NS2500N	+	
	Masterpact MTZ1 Masterpact MTZ2	MTZ1 16 H1/H2 MTZ2 16 N1/H1/	J2/I 1		MTZ2 16 H1/H2/L	1	MTZ2 16 L1	MTZ2 16 L1
	wasterpact wrizz	MTZ2 20 N1/H1/			MTZ2 10 H1/H2/L		MTZ2 20 H2/H3/L1	MTZ2 20 H3/L
		MTZ2 25 H1/H2/			W1122 20 111/112/1	13/L1	MTZ2 25 H2/H3	MTZ2 25 H3
	Masterpact NT	1V1166 60 111/116/	T	NT16H1/H2				
	Masterpact NW			NW16N1		NW16H1	NW16H2 (≤ 75 kA)	NW16L1
	aoto.paot.ttt					NW20H1	NW20H2 (≤ 75 kA)	
						NW25H1	NW25H2 (≤ 75 kA)	
T	alis busbar trunking	KTA2500						
Type of Cana			30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
	lsc max kArms	25 KA	00.01			NS2000N		
Type of circuit		25 KA	COTAC					
Type of circuit		25 KA	oo ia c			NS2500N		
Type of circuit	Compact NS							
Type of circuit	Compact NS Masterpact MTZ1	MTZ1 16 H1/H2				NS2500N NS3200N		
Type of circuit	Compact NS	MTZ1 16 H1/H2 MTZ2 20 N1/H1/	H2/H3/L1		MTZ2 20 H1/H2/F	NS2500N NS3200N	MTZ2 20 H2/H3/L1	MTZ2 20 L1
Type of circuit	Compact NS Masterpact MTZ1	MTZ1 16 H1/H2 MTZ2 20 N1/H1/l MTZ2 25 H1/H2 /l	H2/H3/L1		MTZ2 20 H1/H2/F	NS2500N NS3200N	MTZ2 25 H2/H3	MTZ2 20 L1
Type of circuit	Compact NS Masterpact MTZ1 Masterpact MTZ2	MTZ1 16 H1/H2 MTZ2 20 N1/H1/	H2/H3/L1	NT4CH4#IC	MTZ2 20 H1/H2/F	NS2500N NS3200N		MTZ2 20 L1
Type of Cana Type of circuit breaker	Compact NS Masterpact MTZ1 Masterpact MTZ2 Masterpact NT	MTZ1 16 H1/H2 MTZ2 20 N1/H1/l MTZ2 25 H1/H2 /l	H2/H3/L1	NT16H1/H2	MTZ2 20 H1/H2/F	NS2500N NS3200N 13/L1	MTZ2 25 H2/H3 MTZ2 32 H2/H3	
Type of circuit	Compact NS Masterpact MTZ1 Masterpact MTZ2	MTZ1 16 H1/H2 MTZ2 20 N1/H1/l MTZ2 25 H1/H2 /l	H2/H3/L1	NT16H1/H2	MTZ2 20 H1/H2/F	NS2500N NS3200N	MTZ2 25 H2/H3	MTZ2 20 L1 NW20L1

Type of Cana	alis busbar trunking	KTA2500 Reinf	orced short-c	ircuit level						
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lsc max kArms		30 kA	42 kA	50 kA	65 kA	85 kA	100 kA		
Type of circuit breaker	Compact NS					NS2000N NS2500N				
	Masterpact MTZ1	MTZ1 16 H1/H2				NS3200N				
	Masterpact MTZ2	MTZ2 20 N1/H1/F	12/H3/I 1		MTZ2 20 H1/H2/F	13/1 1	MTZ2 20 H2/H3/L1	MT72 20 H3/I 1		
	Madiorpadi MT22	MTZ2 25 H1/H2/H MTZ2 32 H1/H2/H	13	10/21	MTZ2 25 H2/H3 MTZ2 32 H2/H3	MTZ2 25 H3 MTZ2 32 H3				
	Masterpact NT			NT16H1/H2						
	Masterpact NW					NW20H1 NW25H1 NW32H1	NW20H2 (≤ 80 kA) NW25H2 (≤ 80 kA) NW32H2 (≤ 80 kA)			
Type of Cana	alis busbar trunking	KTA3200								
T 6	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				
bicanci	Masterpact MTZ2	MTZ2 32 H1/H2/F	MTZ2 32 H1/H2/H3 MTZ2 32 H2/H3							
		MTZ2 40 H1/H2/H3 MTZ2 40 H2/H3								
	Masterpact MTZ3	MTZ3 40 H1/H2				L 11405114	1,11405110			
	Masterpact NW					NW25H1 NW32H1 NW40H1	NW25H2 NW32H2 NW40H2 NW40b H1/H2			
Type of Cana	alis busbar trunking	KTA3200 Reinf	orced short-c	rcuit level						
	Isc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA		
Type of circuit breaker	<u> </u>					NS2500N NS3200N				
	Masterpact MTZ2	MTZ2 32 H1/H2/F MTZ2 40 H1/H2/F					MTZ2 32 H2/H3 MTZ2 40 H2/H3			
	Masterpact MTZ3	MTZ3 40 H1/H2	1	1	1	NW25H1	NW25H2	NW25H3		
	Masterpact NW					NW25H1 NW32H1 NW40H1	NW32H2 NW40H2	NW25H3 NW32H3 NW40H3 NW40bH1/2		
Type of Cana	alis busbar trunking	KTA4000								
Town of almosts	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/F MTZ2 40 H1/H2/F				NS3200N	MTZ2 32 H2/H3 MTZ2 40 H2/H3			
	Masterpact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2	10				W122 40 H2/H3			
	Masterpact NW					NW32H1 NW40H1	NW32H2 NW40H2 NW40bH1/H2 NW50 H1/H2			
Type of Cana	alis busbar trunking	KTA4000 Reinf	orced short-c	rcuit level						
	lsc max kArms	25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA		
Type of circuit breaker	Compact NS Masterpact MTZ2	MTZ2 32 H1/H2/F				NS3200N	MTZ2 32 H2/H3 MTZ2 40 H2/H3			
	Masterpact MTZ3	MTZ2 40 H1/H2/F MTZ3 40 H1/H2 MTZ3 50 H1/H2 MTZ3 63 H1/H2	13				W122 40 H2/H3	W122 40 H3		
	Masterpact NW					NW32H1 NW40H1	NW32H2 NW40H2	NW32H3 NW40H3 NW40bH1/H2 NW50H1/H2		
Type of Cana	alis busbar trunking	KTA5000	0014	401.4	E0.1.4	0514	0514	40014		
Type of circuit breaker	Isc max kArms Masterpact MTZ2	25 kA	30 kA	42 kA	50 kA		85 kA MTZ2 32 H2/H3 MTZ2 40 H2/H3	100 kA MTZ2 32 H3 MTZ2 40 H3		
	Masterpact MTZ3					MTZ3 40 H1/H2 MTZ3 50 H1/H2 MTZ3 63 H1/H2	2 2	22 10110		

Degree of protection

Canalis KTA

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.

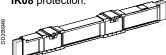
IK code●●

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 KTA 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.

parts.	ara protostion of porsonio agai		
Protection of equipment	Protection of persons		
Non-protected.	Non-protected.	0	
Protected against the penetration of solid objects having a diameter greater than or equal to 50 mm.	Protected against direct contact with the back of the hand (accidental contact).	1	400 0 50 mm
Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm.	Protected against direct finger contact.	2	Ø12,5 mm
Protected against the penetration of solid objects having a diameter greater than or equal to 2.5 mm.	Protected against direct contact with a 2.5 mm diameter tool.	3	Ø2,5 mm
Protected against the penetration of solid objects having a diameter greater than 1 mm.	Protected against direct contact with a 1 mm diameter wire.	4	Ø1 mm
Dust protected (no harmful deposits).	Protected against direct contact with a 1 mm diameter wire.	5	DD210018
Dust tight.	Protected against direct contact with a 1 mm diameter wire.	6	DD210018

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

Protection of equipment		
Non-protected.	0	
Protected against vertical dripping water (condensation).	1	DD210006
Protected against dripping water at an angle of up to 15°.	2	15.
Protected against rain at an angle of up to 60°.	3	DDZ10008
Protected against splashing water in all directions.	4	DD210008
Protected against water jets in all directions. Test duration: 1 mn/m² casing	5	DDZ10010
Protected against powerful jets of water and waves.	6	DD210014

Additional letter

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

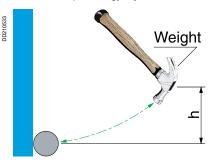
A	With the back of the hand.
В	With the finger.
С	With a 2.5 mm diameter tool
D	With a 1 mm diameter tool

Protected against the effects of temporary immersion.

Protected against the effects of prolonged immersion under specified conditions.

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

Harmonic currents

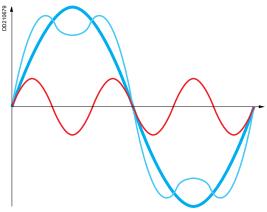
Canalis KTA

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:

$ih3 (\%) = 100 \times i3/i1$

- i3 = rms current of H3
- i1 = rms current of the fundamental

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

There are two decisive factors:

- the types of connected devices:
- □ disturbing loads: fluorescent lighting, computer hardware, rectifiers, arc furnaces,
- $\hfill \square$ 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 nondisturbing loads (motors, pumps, heating).

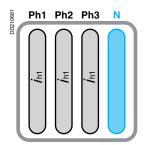
Low probability of harmonics THD ≤ 15 %.

Offices

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

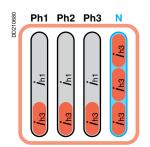
High probability of harmonics 15 % < THD ≤ 33 %.

Effects of harmonics on Canalis busbar trunking



Fundamental frequency: ih1 (50 Hz)

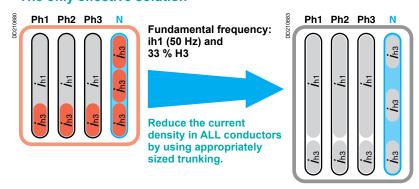
No current in the neutral. The conductors are correctly sized.



Fundamental frequency: ih1 (50 Hz) and 33 % of

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)
800	630	500	KTA	800
1000	800	630	KTA	1000
1250	1000	800	KTA	1250
1600	1250	1000	KTA	1600
2000	1600	1250	KTA	2000
2500	2000	1600	KTA	2500
3200	2500	2000	KTA	3200
4000	3200	2500	KTA	4000

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

For more information on harmonics

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

Direct current

Canalis KTA

Determining the DC current value

Thermal effect

Rule

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

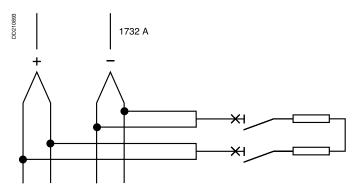
Where:

- the power dissipated as heat: **Pac** = 3 x R x lac² where:
- □ R= resistance of a conductor
- □ lac = conductor rms current
- the dissipated power for 4 conductors: **Pdc** = 4 x R x Idc² where:
- □ Idc = direct current.

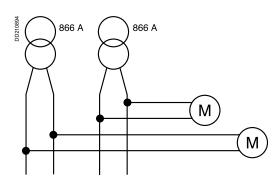
Selection table

■ 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
800	1386	693
1000	1732	866
1250	2165	1083
1600	2771	1385
2000	3464	1732
2500	4330	2165
3200	5542	2771
4000	6928	3464
5000	8660	4330

Protection

With DC, there is no zero crossing point of the voltage and current to facilitate arc extinction in the protective device.

The arcing time is longer and the energy that has to be absorbed is higher than for

The voltage of the DC arc must rise to the source voltage very quickly in order to "put out" the short-circuit current.
"Shortened" electrical equation: Unetwork = R x lsc + Uarc where:

- Isc = (Unetwork Uarc) / R
- Isc = 0 when Uarc = Unetwork.

Use with specific switchgear

A quick rise in arcing voltage can be achieved by using series fuses, one fuse on the + and one fuse on the - of each circuit.

For some current rating and fuse characteristics, the placing of two fuses in series on each polarity may be specified (highly inductive circuit).

In some cases, two fuses must be placed in parallel for each polarity.

Saline environment

For use in a saline environment, storage and installation precautions must be followed.

Please contact your sales office.

Frequencies 400 Hz

Canalis KTA

KT busbar trunking derating at 400Hz

Values at 35 $^{\circ}\text{C}.$ Application of a derating coefficient at 400 Hz combined with that for temperature

Busbar trunking derating								
	KTA08	KTA10	KTA12	KTA16	KTA20	KTA25	KTA32	KTA40
In (A)	688	851	1014	1327	1635	2024	2394	3162
Coefficient K at 400 Hz	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79

Voltage drop

3-phase voltage drop, in millivolts per metre and per amp 400 Hz with load spread over the run.

For a concentration of load at the end of a run (transport), the voltage drops are double those shown in the table below.

ΔU evenly spread (mV. A. m)								
	KTA08	KTA10	KTA12	KTA16	KTA20	KTA25	KTA32	KTA40
Cos Φ = 1.0	0.079	0.068	0.057	0.044	0.038	0.033	0.025	0.020
Cos Φ = 0.9	0.12	0.109	0.096	0.079	0.067	0.054	0.045	0.039
Cos Φ = 0.8	0.13	0.121	0.108	0.089	0.076	0.060	0.051	0.045

Conductor characteristics

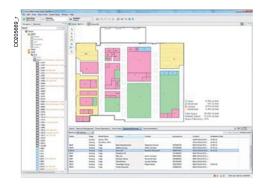
Conductor impedance								
	KTA08	KTA10	KTA12	KTA16	KTA20	KTA25	KTA32	KTA40
Average ohmic resistance of phase and neutral conductors at $\ln^{(1)}$ Rb1ph $(m\Omega/m)$	0.092	0.079	0.066	0.051	0.044	0.039	0.029	0.023
Average resistance at In and rated F(Hz) Xph (m Ω /m)	0.14	0.128	0.120	0.104	0.088	0.064	0.059	0.056

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

Measurements and metering

Canalis part of StruxureWare

The StruxureWare platform



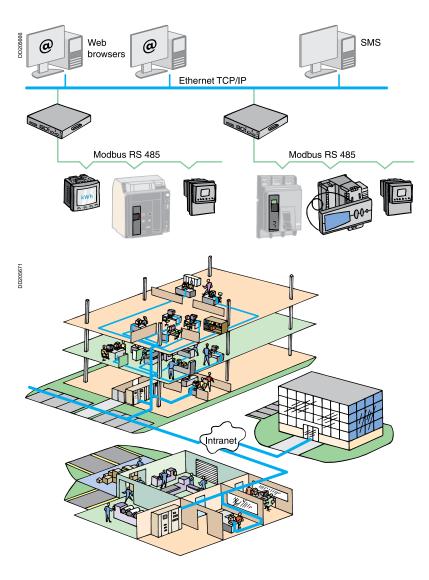


Canalis associated to Schneider Electric measurement and communication devices provides a simple solution to access information (status, measurements, etc.) available from your electrical distribution equipment (transformers, switchboards, busbar trunking).

This information can be accessed from any PC connected to your Ethernet network.

The supervision can make your company more competitive by:

- reducing operating costs
- optimising equipment performance
- improving the reliability of the electrical power supply.



Customer needs for measurements and metering

In all non-residential buildings, the need for sub-metering exists and is growing underthe combined effects of:

- national and supra-national energy regulations
- the need to reduce overheads and production costs
- the allocation of energy expenditures to cost centres
- the outsourcing of operations tasks to specialists.

Operators must therefore have access to reliable pre-processed information in order to:

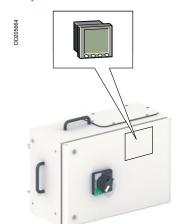
- identify areas for potential savings
- model building energy flows and anticipate evolving needs
- optimise energy supply and consumption.

Measurements and metering

Canalis part of StruxureWare

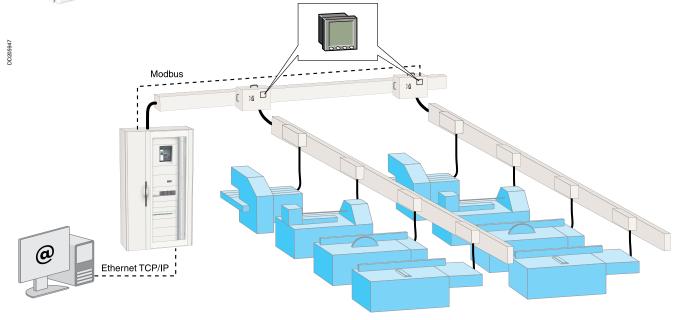
Canalis KTA

Loads monitored by a power meter in tap-off units



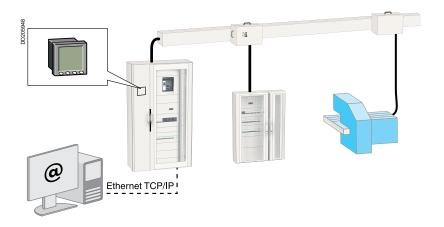
Canalis offers measurement and metering units that can be mounted on both Canalis KS and KT trunking ranges, available in two ratings (250 A and 400 A). They are equipped with mounting plates designed to receive a PowerLogic PM810 Power Meter, a Compact NS circuit breaker and the associated current transformers.

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.



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.



Fire resistance

Canalis KTA

As required by standards, Canalis KT busbar trunking complies with:

- 1 material resistance to abnormal temperatures,
- 2 flame propagation resistance,
- 3 fire barrier function when going through a partition wall,
 4 conservation of all circuits for 1h30 in an insulating sheath.

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 and 2-13.

Application of an incandescent wire for 30 seconds on the insulating materials in contact with live parts.

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

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.

■ 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
- \blacksquare 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.

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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

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

As defined in standard DIN 4102 part 12.

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

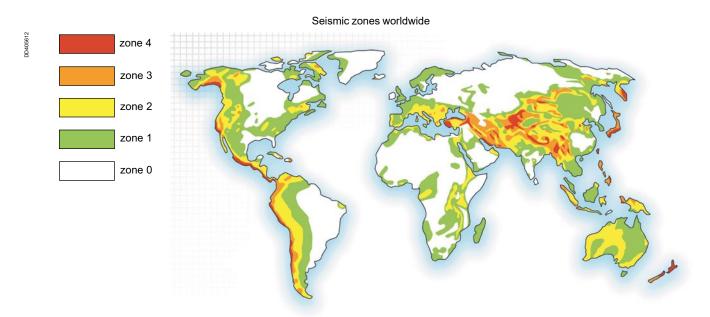
Result criteria

The specimen is considered to have passed the test if:

- conductor continuity is preserved
- there is no short-circuit between conductors.

Seismic resistance

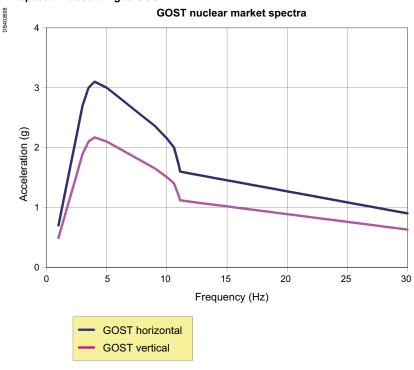
Canalis KTA



Canalis KT is seismic certified in accordance with the protocol described in IEC 60980 and a seismic level equivalent to >7 on the Richter scale and severity 9 on the international MSK- 64 scale.

The spectrum used for testing is the one specified for civil engineering and nuclear applications in GOST 17516.1-90.

Spectrum according to GOST

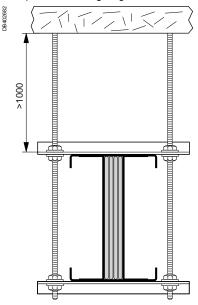


Installation and support

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

■ For flexible support

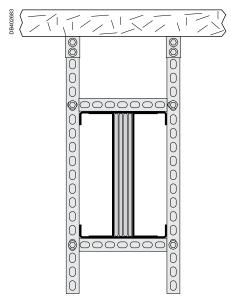
Use supports and rods, with a minimum length of 1000 mm and additional clamping as per the following diagram.



Safety limit: 250 mm round the busbar trunking (amplitude noted during testing).

■ For rigid support

Use of conventional mechanically welded consoles with rigid busbar trunking fastening.



For both cases:

- \blacksquare its conventional fixing centre distances are maintained (3 m edgewise, 2 m flat)
- the levels achieved are applicable for horizontal, edgewise or flat or vertical installations.

Testing and commissioning procedure

Canalis KTA

All the operations described below are given for indication only. Under no circumstances can they be used to substitute the installation company's own procedures and engage Schneider Electric's responsibility.

Scope

High power busbar trunking, transformer-switchboard links.

Required tools

- Multimeter.
- 500 V megger.
- Roto-phase.

Prerequisites

- If need be, the old equipment has been removed from the premises.
- The new equipment has been manoeuvred into the premises where it is to be installed by the installation contractor.
- The equipment has been installed by the installation contractor in accordance with manufacturer's recommendations.
- The equipment's installation diagram, connection diagram and assembly results sheet are available for the commissioning engineer.

De-energising the installation and making it safe

The works manager is responsible for worksite safety and must ensure the installation is de-energised and made safe in accordance with safety rules before any inspection or measurement is performed.

Equipment checking, positioning and identification

After the installation contractor has positioned, assembled and connected the busbar trunking in accordance with the supplied installation, assembly and connection diagrams, and using the recommended tools and handling equipment, the following characteristics must:

- be noted,
- be checked for compliance with respect to the details shown on the drawing.

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

General visual inspection

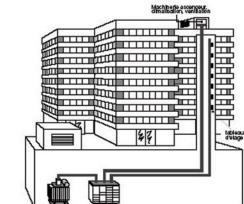
The equipment has been chosen according to its electrical environment (rating and protection adapted to operating conditions).

The following points do not require checking.

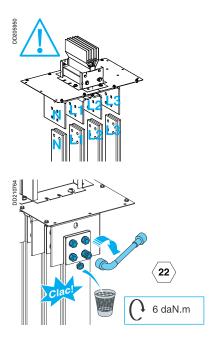
Points concerning reception, storage and handling

No signs of:

- shock (which may deteriorate internal insulation: conductor insulation on straight lengths or at the tap-off points or joint blocks)
- humidity or oxidation (equipment stored outside should have been covered with a plastic sheet, sheltered from humidity, dirt and dust)
- firm's label defining the product's characteristics.



Checking power connections





Points concerning installation and fittings

Assembly compliance with the specifications of the installation drawing, service instructions and the catalogue:

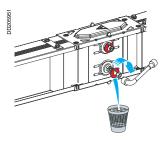
- no busbar trunking twisting
 positioning and distance of the busbar trunking with respect to the building
- fixings, compliance of the between centres distance of the equipment for flat or edgewise, horizontal or vertical distribution
- clamps, not fully blocked to allow movement due to longitudinal forces
- presence of expansion sections if necessary.

General visual inspection

Check the number of connection parts and their cross-sections for each conductor (see "Installation guide").

Check insulation distances between 2 conductors and between conductors and metal panels.

Check the tightening torque of bolts not fitted with torque nuts. For bolts fitted with torque nuts, check the head has broken-off.



Check the bolt length exceeding the nut; some bolts may have been removed and then put back, but left untightened.

Mark each tightened nut using indelible varnish. As well as a means of selfinspection to ensure correct tightening torque, it also allows any untightening to be identified.

Class 8-8 nuts and bolts (M8 on LV switchboard side, see "Commissioning Guide for Schneider Electric LV Switchboards").

Bolt	Tightening torque
HM16	16 daN.m
HM14	12 daN.m
HM12	7 daN.m
HM10	5 daN.m

The results of all these checks must be noted on the results sheet by the installation contractor.

Checking insulation between live conductors

These measurements and checks can only be performed if:

- each link is disconnected by an isolating device,
- each link is disconnected from the upstream transformer, with the main circuit breaker upstream of the LV switchboard unplugged and in the open position.

Test means: 500 V DC megger (DC to avoid capacitive currents)

Measurements: 6 measurements between live conductors (between phases and then between each phase and neutral).

LV circuit insulation value, according to IEC 60364-6 (and 61.3.3) standard:

- rated voltage < 500 V</p> U test DC = 500 V Ri ≥ 1 MΩ
- rated voltage > 500 V U test DC = 1000 V $Ri \ge 1 M\Omega$.

Testing and commissioning procedure

Canalis KTA

Checking the earth network and locks

Earth network

General visual inspection

Check:

- the galvanised steel casing sides are earthed (note: this depends on the earthing system)
- connection quality
- cable cross-section
- there are no loose metal parts (washers, screws) in the tap-off units.

Note: the results of these checks must have already been noted on the results sheet by the installation contractor.

Checking insulation between live conductors and earth

Following this check, each link must be reconnected to the upstream transformer (use the 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:

U test DC = 500 V ■ rated voltage < 500 V Ri ≥ 1 MΩ U test DC = 1000 V ■ rated voltage > 500 V $Ri \ge 1 M\Omega$.

(1) No neutral insulation if the earthing system is such that the neutral is connected to or used

Caution: in this case, once the transformer has been reconnected (star secondary), the phaseearth measurement is the winding resistance.



Reference: IEC 61439-1:

Check PE protective circuit continuity by visual inspection and random continuity

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.



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.

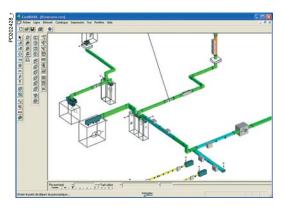
Installation guide

Introduction Presentation and description Catalogue numbers and dimensions Design guide	23 49 147
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Layout advice **Run optimisation**

Canalis KTA

PowerSet Canalis Design software



Advice

PowerSet Canalis Design software can be used to design the busbar

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.

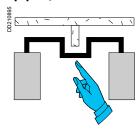
The Canalis KT line is easy to specify simply by indicating the required dimensions. However, it is strongly advised to use the shortest and simplest path possible between the transformer and the switchboard.

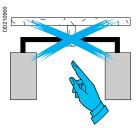
It is important to carefully plan the layout of the transformer and switchboard in order to use:

- 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.

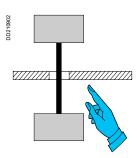
Before defining your busbar trunking run, it is recommended you pay particular attention to the various parameters which could be detrimental to the installation.

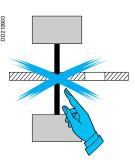
Obstacles that obstruct the busbar trunking such as beams, pipes, etc.



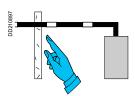


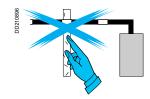
Badly positioned places for going through walls and floors.





Joint positions in the middle of a partition wall.

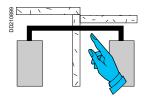


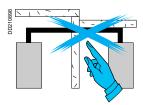


Schneider Electric

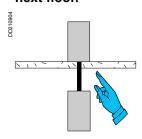
Insufficient ceiling height.If the busbar trunking must be installed edgewise between a transformer and switchboard, ensure the ceiling height is sufficient for fitting the joint blocks from

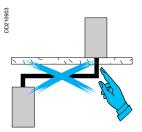
Reserve a space between the busbar trunking and the ceiling equal to 100 mm (variable depending on the rating, see "Catalogue numbers and dimensions").



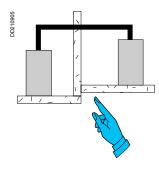


Going through a floor to bottom feed a switchboard on the next floor.





Difference in floor levels of 2 rooms.



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

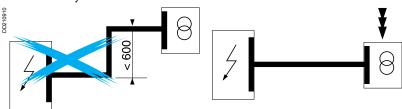
Layout advice **Run optimisation**

Canalis KTA

Examples of link optimisation

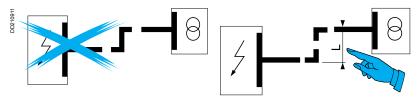
Example 1

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



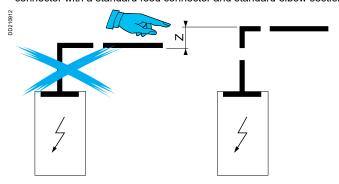
Example 2

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



Modification of the busbar trunking height

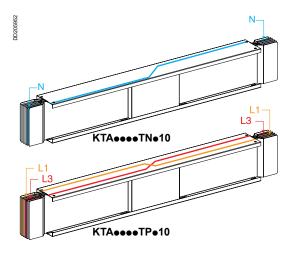
By slightly increasing dimension "Z", replace a made to measure elbow feed connector with a standard feed connector and standard elbow section.



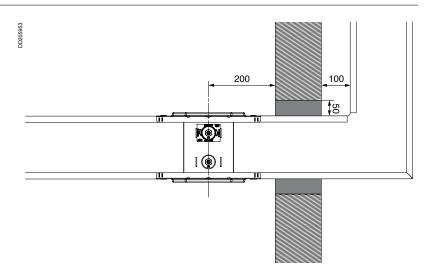
Neutral position

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.



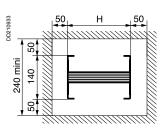
Positioning and supports



Edgewise passage through partition wall

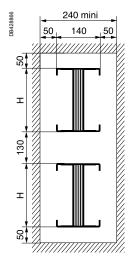
240 mini 50 140 50

Flat passage through partition wall

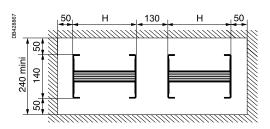


Rating (A)	800	1000	1250	1600	2000	2500	3200	4000	5000
Height H (mm)	74	104	124	164	204	244	324	404	2 x 244 + 130

Edgewise passage through partition wall for 5000



Flat passage through partition wall for 5000



Layout advice

Positioning and supports

Canalis KTA

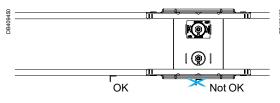
A support point as close as possible to the connections is needed because transformers, generator sets and switchboards must not support the weight of the

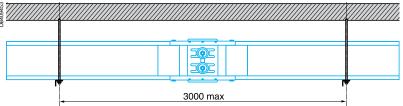
In some industries, for service continuity reasons, transformers may be replaced quickly. The busbar trunking must be able to support itself.

Edgewise horizontal installation

The maximum recommended distance between supports is 3 metres. In all cases, provide for 2 supports for 4 metre sections.

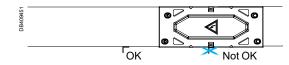
For clamping busbar trunking to support brackets, see page 206.

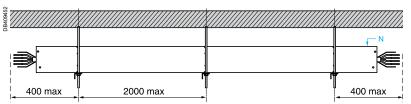




Flat horizontal installation

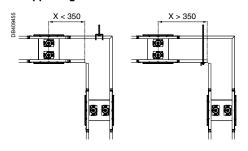
The recommended distance between supports is 2 metres. In addition, a support must be placed at 400 mm maximum from the joint block axis. For clamping busbar trunking to support brackets, see page 206.

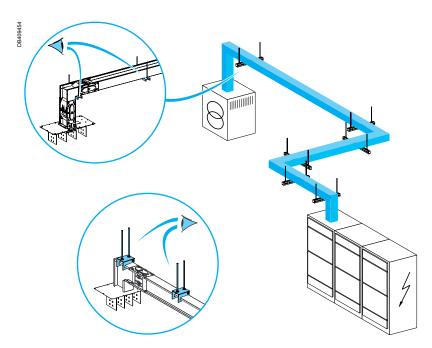




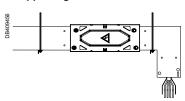
Example of spreading out supports

Supporting of LC elbow with a vertical branch

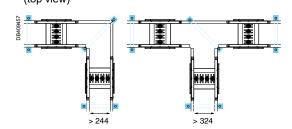




Supporting of LP elbow with a vertical branch



Supporting of LC elbows and TC tees (top view)

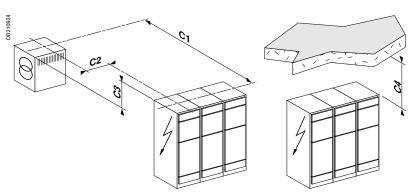


Rules to follow

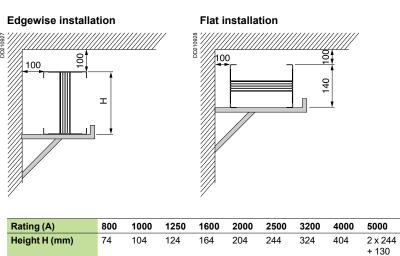
- An element must never be left unsupported.
- For easier leveling, always use two supports for each element wherever possible.
- A bracket must never coincide with a junction block.
- The capacity of fixing brackets in terms of supporting is at least the weight of the busbar trunking system plus 90 kg, in accordance with IEC 61439-6.
- Terminals must be fixed by its own brackets not be supported by transformers or
- Vertical branches must be always supported the closer as possible to the elbow
- 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").

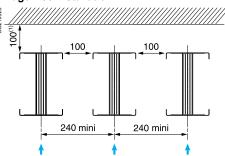


Distance of the busbar trunking from the wall



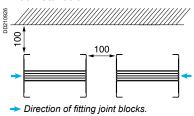
Distance between busbar trunking (without tap-off units)

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

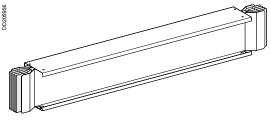


Layout advice

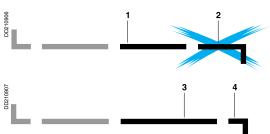
Anticipate unexpected worksite problems

Canalis KTA

Undecided section

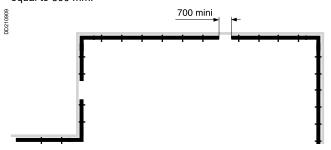


This section will be ordered after the gap to be filled has been measured at the end of the job. To optimise its delivery to site, prefer a straight section with a length of less than 2 metres rather than made to measure elbows.



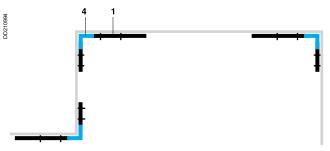
- 1: Standard straight section.
- 2: Made to measure elbow.
- **3**: Made to measure straight section.
- 4: Standard elbow.

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).



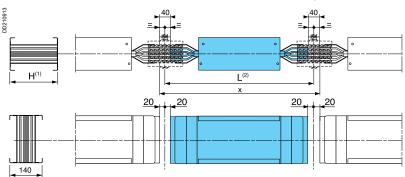
And then complete the layout with standard and made to measure straight sections.

Tips for determining dimensions at the worksite

Straight section

The nominal length "L" of a straight section is measured from the axis of the joint block to the other axis of the joint block, in millimetres (the joint block axis is located 20 mm from the end of the bars).

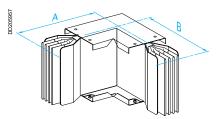
Dimension **L** of the standard or made to measure section = \mathbf{x} - 40 mm.



- (1) For the different busbar trunking heights, see page 197.
- (2) See "Run sections" in "Catalogue numbers and Dimensions".
- x : measured dimension.

Example: $\mathbf{x} = 1860 \text{ mm}$ hence L = 1860 - 40 = 1820 mm.

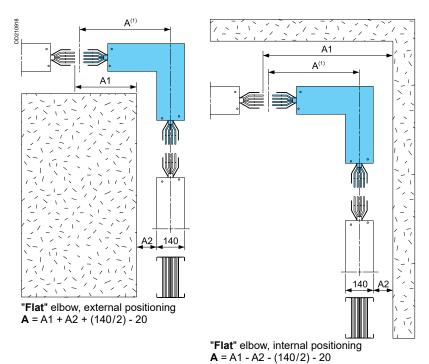
Change-of-directions



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

Flat elbows

The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.

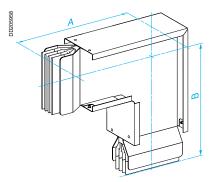


(1) See "Changes of direction" in "Catalogue numbers and Dimensions".

Layout advice

Tips for determining dimensions at the worksite

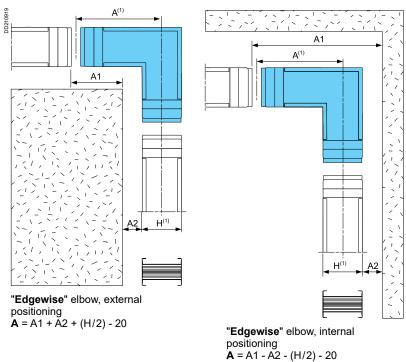
Canalis KTA



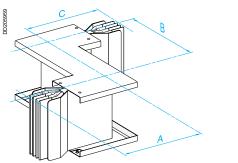
A and B: see "Changes of direction" in "Catalogue numbers and Dimensions".

Edgewise elbows

The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.



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

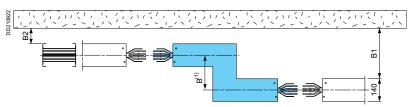


A, B and C: see "Changes of direction" in "Catalogue numbers and Dimensions".

Flat Zed

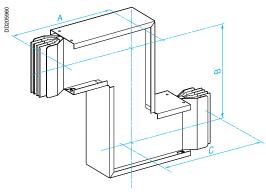
The nominal length of each branch is measured from the axis of the joint block to the axis of the other branch, in millimetres. The joint block axis is located 20 mm from the end of the bars.

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".

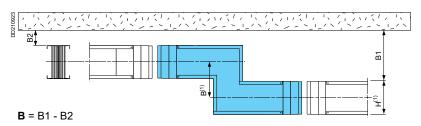


 ${\bf A}, {\bf B}$ and ${\bf C}$: see "Changes of direction" in "Catalogue numbers and Dimensions".

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.

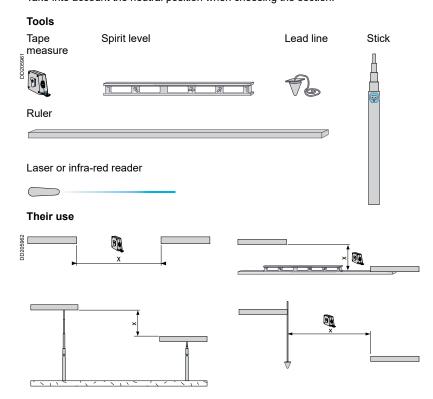
The nominal length of the intermediary branch(es) is measured from the axis of one branch to the axis of another.



(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.



Horizontal distribution

Positioning the tap-off units

Canalis KTA

It is possible to combine the following in the same installation:

- straight transport sections with straight sections containing fixed or plug-on tap-
- straight sections of different lengths
- straight sections with different numbers of fixed or plug-on tap-off points

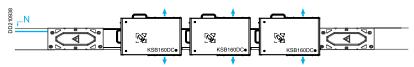


Positioning the tap-off units on the busbar trunking

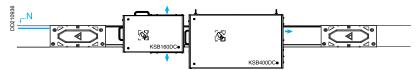
Several configurations are possible.

Some examples:

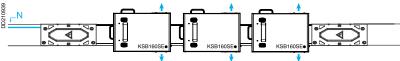
■ on a 2000 mm straight section with plug-on tap-off points (KTA••••ED•20): ☐ 3 x 160 A circuit breaker tap-off units:



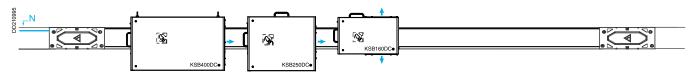
□ 1 x 400 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit,



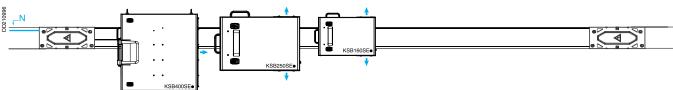
□ 3 x 160 A fuse tap-off units:



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

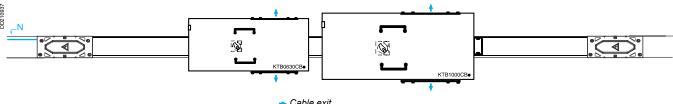


 \square 1 x 400 A fuse tap-off unit, 1 x 250 A fuse tap-off unit and 1 x160 A fuse tap-off unit:



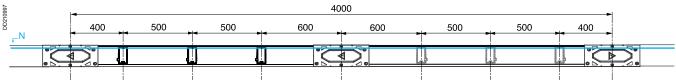
■ on a 4000 mm straight section with fixed tap-off points (KTA••••EB•40):

□ 1 x 400 to 630 A fixed tap-off unit and 1 x 800 to 1000 Å fixed tap-off unit:



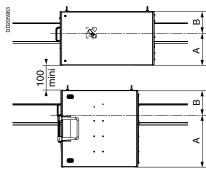
Tap-off units

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

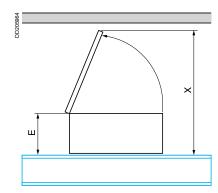
For an installation with tap-off units, provide for a between centres distance that takes into account the minimum dimension of 100 mm and the dimensions A and B of the tap-off units.



-	Туре	Cat. no.	Dime (mm)	ensions)
			Α	В
	Circuit	KSB160DC●	160	150
-	breaker	KSB250DC●	240	160
	tap-off units	KSB400DC●	240	160
		KTB0630CB●	175	175
_		KTB1000CB●	275	275
	Fuse tap-off	KSB160SE●	150	150
	units	KSB250SE●	250	160
		KSB400SE●	440	160

Tap-off unit door opening

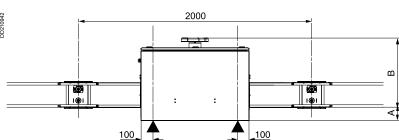
Provide for a minimum distance of 1000 mm between the busbar trunking and the ceiling to allow for the opening of tap-off unit doors.



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

(1) With the handle.

Installing an isolator or run protective device

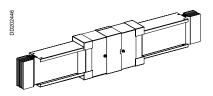


Rating (A)	Dimensions (mm)			
	Α	В		
1000	159	529		
1250	149	539		
1600	129	559		
2000	109	579		
2500	89	599		
3200	98	662		

Horizontal distribution

Checking and compensating for expansion

Canalis KTA



Long part runs

Expansion poses a problem when:

- the runs are made up of long straight sections
- when the busbar trunking passes through an expansion joint between two buildings.

Electrical busbar trunking can be subjected to a multitude of load variations during its service life (e.g. day/night, summer/winter) which cause temperature rise differences and thus variable expansions.

To absorb expansion in a Canalis KT busbar trunking, a specific section must be used: the expansion section.

Horizontal runs without tap-off units

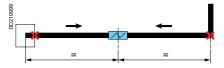
If the busbar trunking length is greater than 30 metres, provide for expansion sections and appropriate blocking means. The ends and, in some cases, the centre of part runs must be blocked in order to direct the extensions towards the expansion sections.

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

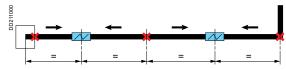
■ 0 to 30 metres:



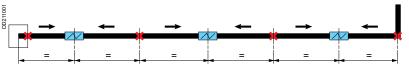
■ 31 to 60 metres:

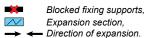


■ 61 to 90 metres:



91 to 120 metres:

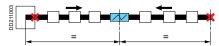




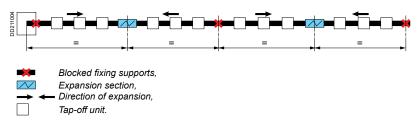
Horizontal runs with tap-off units
Layout of expansion sections and blocking means for the following busbar trunking lengths:
■ 0 to 30 metres:



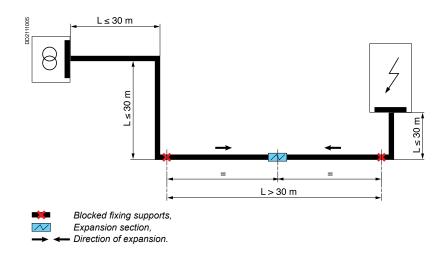
■ 31 to 60 metres:



■ 61 to 120 metres:



Transformer/switchboard links



Horizontal distribution

Checking and compensating for expansion

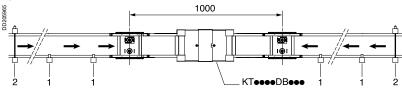
Canalis KTA

Rules for fixing busbar trunking to the supports

For correct system operation, the expansion of the part run in question must be directed towards the expansion section.

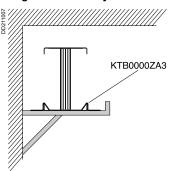
This implies:

- the busbar trunking must be free from all longitudinal movement on its supports
- the expansion section must be blocked on the opposite side to that by which it is pushed.

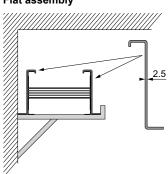


- Free fixings. Blocked fixings.
- ➤ Direction of expansion.

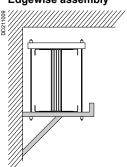
Installation of free fixings **Edgewise assembly**



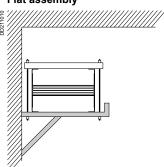
Flat assembly



Installation of blocked fixings **Edgewise assembly**



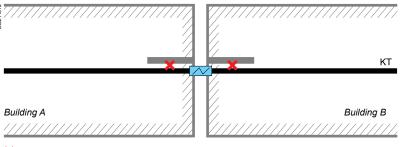
Flat assembly



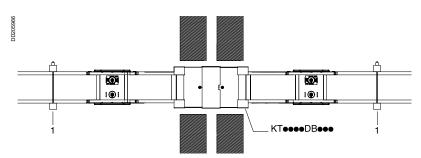
Schneider Belectric

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.

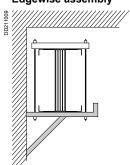


➤ Blocked fixing supports.

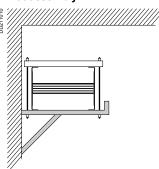


1 Blocked fixings.

Installation of blocked fixings Edgewise assembly



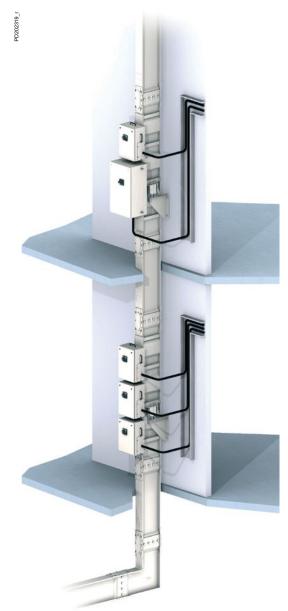
Flat assembly



Rising mains

General

Canalis KTA



Canalis KT enables power distribution to each floor of multi-storey buildings (office buildings, hotels, hospitals, etc).

In this application, Canalis KT retains all its construction principles:

Vertically mounted, the protection degree of the KT busbar trunking is IP55 as standard.

Installing a rising main

1 Installation principle

Installation at each floor of:

- a 2 metre distribution section
- a made to measure transport section to go through the floor slab
- a busbar trunking support
- up to 3 x 160 A tap-off units or a 250 or 400 A tap-off unit and a 160 A tap-off unit.

2 Installation feed

The installation feed is achieved using either a cable box or by direct connection to an electrical distribution switchboard.

3 Busbar trunking supports

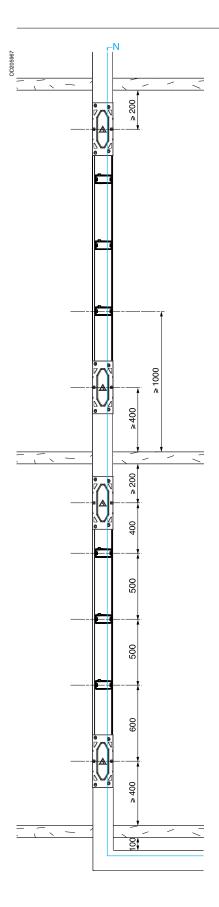
The supports fix the vertical run section to the building structure. a floor slab support. It can be fixed to either the wall, to a wall bracket or directly to the floor, This type of fixing support has the following advantages:

- fitting to either the wall, to a wall bracket or directly to the floor
- height adjustment to make up for positioning errors
- depth adjustment from 50 to100 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

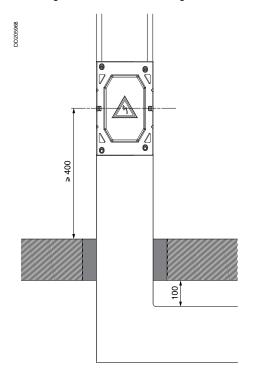
The busbar trunking must be positioned with the neutral on the right.

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:

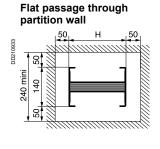
- 400 mm between the floor slab and the joint block axis to be able to install a support to the wall or wall bracket to facilitate the re-filling of the hole and to cope with possible building faults (e.g. screed not indicated on the drawings). Provide 500 mm for a floor fixing
- 200 mm between the upper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

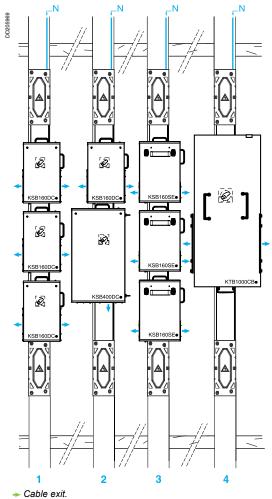


Rating (A)	800	1000	1250	1600	2000	2500	3200	4000
Height H (mm)	74	104	124	164	204	244	324	404

Rising mains

Positioning the tap-off units

Canalis KTA



Positioning the tap-off units on the busbar trunking

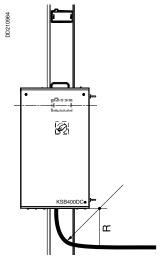
Several configurations are possible.

Some examples:

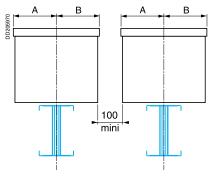
- 1 3 x 160 A circuit breaker tap-off units
- 2 1 x 400 A circuit breaker tap-off unit and 1 x 160 A circuit breaker tap-off unit
- 3 3 x 160 A fuse tap-off units
- 4 1 x 800 to 1000 A bolted tap-off unit

Cable exit

R = 12 x Ø of cable



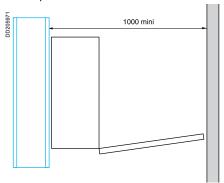
Recommendations for installing 2 rising mains in parallel For an installation with tap-off units, provide for a between centres distance that takes into account the minimum dimension of 100 mm and the dimensions A and B of the tap-off units.



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

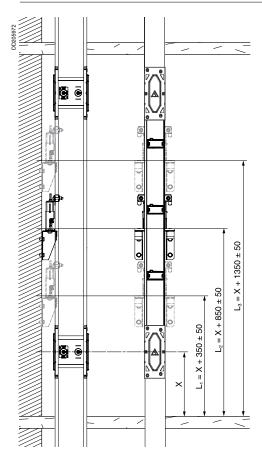
Tap-off unit door opening

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.



Schneider

Positioning of supports



X ≥ 400.

Spring hangers vertical supports KTB $\bullet \bullet \bullet \bullet$ ZA5 \bullet are designed for buildings with an average gap between floors of 3 to 4 meters between each floor.

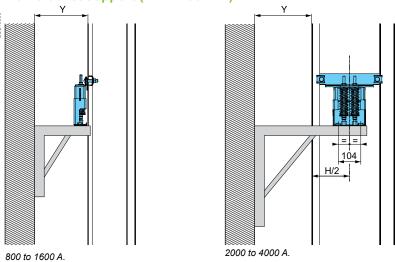
- If these distance is punctually reduced or increased (Max 5 meters with no more than 1 element without support in between) additional supports should then be added to fit a good column consistency. The average distance between supports should stay between 3 to 4 meters.
- Also, a distribution element with high rating tap offs (630 A and more) should have a spring hanger on its

- 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 Wall drilling drawing to fix the support. 800 to 1600 A. 2000 to 4000 A.

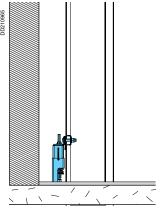
(1) Dimensions with free springs.
Y: 50 mm minimum to 100 mm maximum

Wall bracket support (if Y > 100 mm)

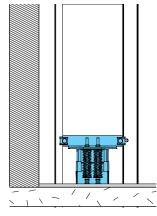


Rating (A)	2500	3200	4000	5000
Height H (mm)	204	244	324	404

Floor support



800 to 1600 A.

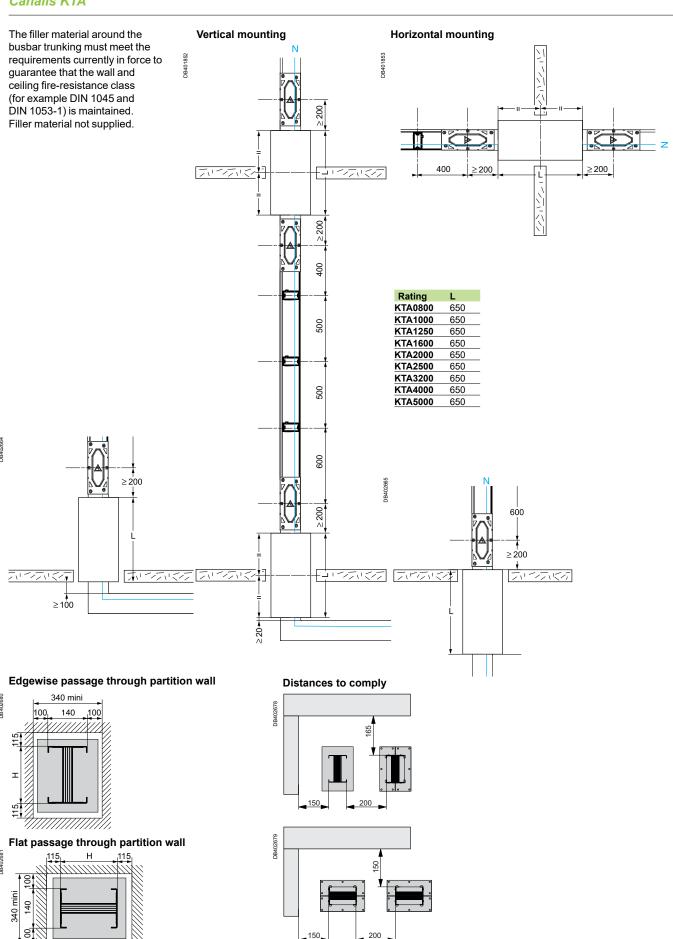


2000 to 4000 A.

Rising mains

Positioning the external fire barriers

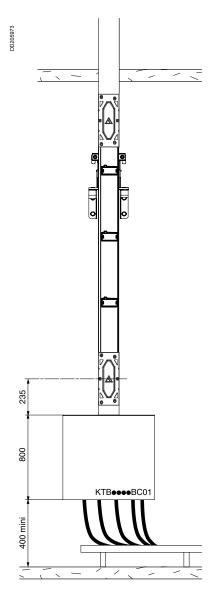
Canalis KTA



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

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

Installation with feed via a cable box.

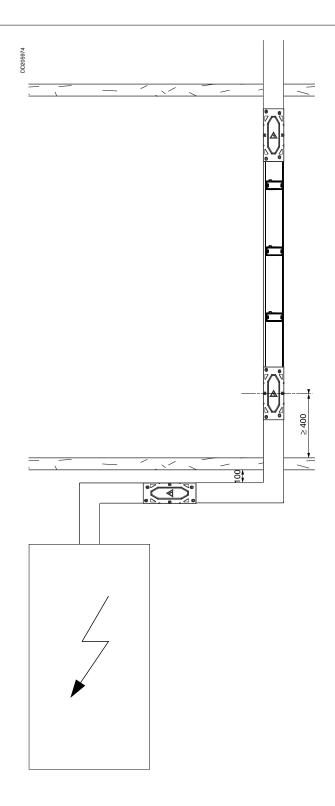


Rising mains

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

Canalis KTA

Installation with feed direct to the switchboard



Panorama of connection solutions

Canalis KTA

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.

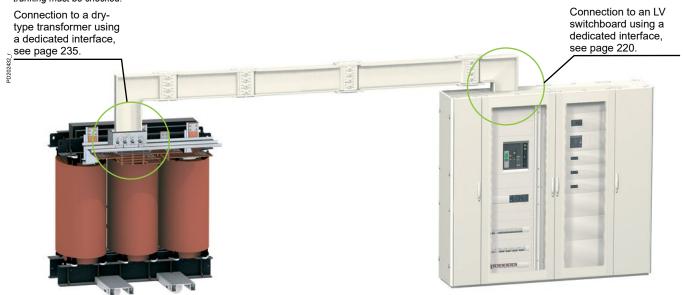
Advantages

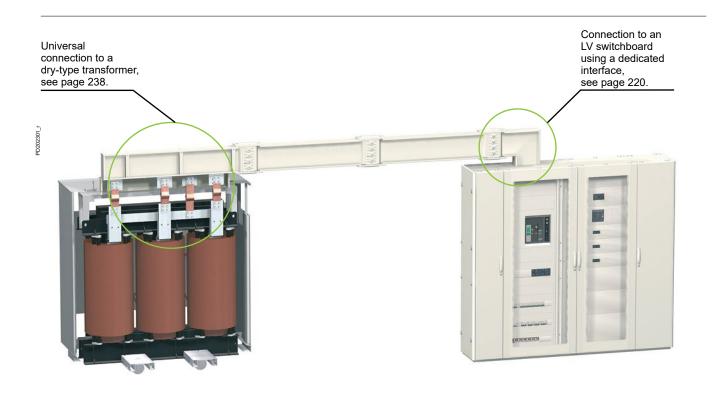
- No design work for the connections.
- Simplified layout design:
- □ pre-defined position of the jointing unit
- □ simplified routing (only three dimensions required)
 □ smaller size (no additional covers required).
- Transformer and switchboard supplied with connections already mounted.
- Short lead 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:
- $\hfill\square$ 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.

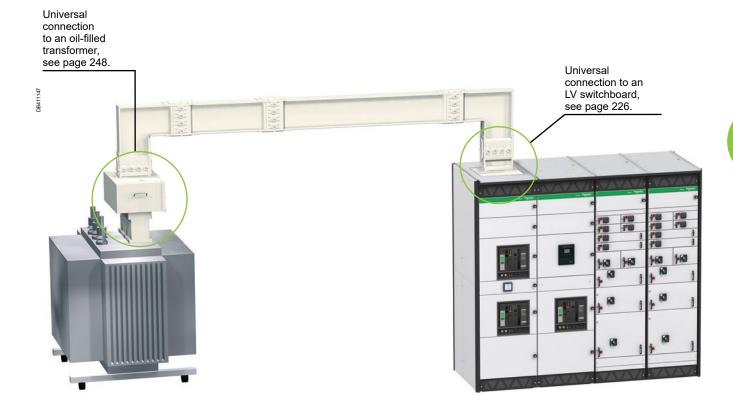
Compatibility between Trihal transformers/Canalis KT/Prisma P or Okken switchboards

Trihal trans	sformers				Prisma P	or Okken s	witchboar	ds				
Rating	Naturally ventilated	•				NS-MTZ1/NT-MTZ2/NW circuit breakers			NS-MTZ2/NW circuit breakers			MTZ2/NW circuit breakers
	(AN) dry-type				800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
		transformers,	Interface	Interfaces					20/25		32	40
le max.	25% overload accepted le max.		Junctions	H164				H244		H404	H404	
630 kVA	887 A	1109 A	n°1	H124		KTA1000, KTA1250		KTA1000, KTA1250	-	-	-	-
800 kVA	1126 A	1408 A	n°2	H164		KTA1250, KTA1600			KTA1600	KTA1600	-	-
1000 kVA	1408 A	1760 A	n°3	H204	KTA1600	KTA1600	KTA1600	KTA1600	KTA1600, KTA2000	,	-	-
1250 kVA	1760 A	2200 A	n°4	H244	-	-	-	-	KTA2000, KTA2500	KTA2000, KTA2500	-	-
1600 kVA	2253 A	2816 A	n°5	H324					KTA2500	KTA2500	KTA3200	KTA3200
2000 kVA	2813 A	3516 A	n°6	H404	-	-	-	-	-	-	KTA3200, KTA4000	
2500 kVA	3520 A	4400 A	n°7	H404	-	-	-	-	-	-	KTA4000	KTA4000

(1) The compatibilities indicated correspond to the electrical connection possibilities; in all cases, coordination between circuit breaker and electrical busbar trunking must be checked.





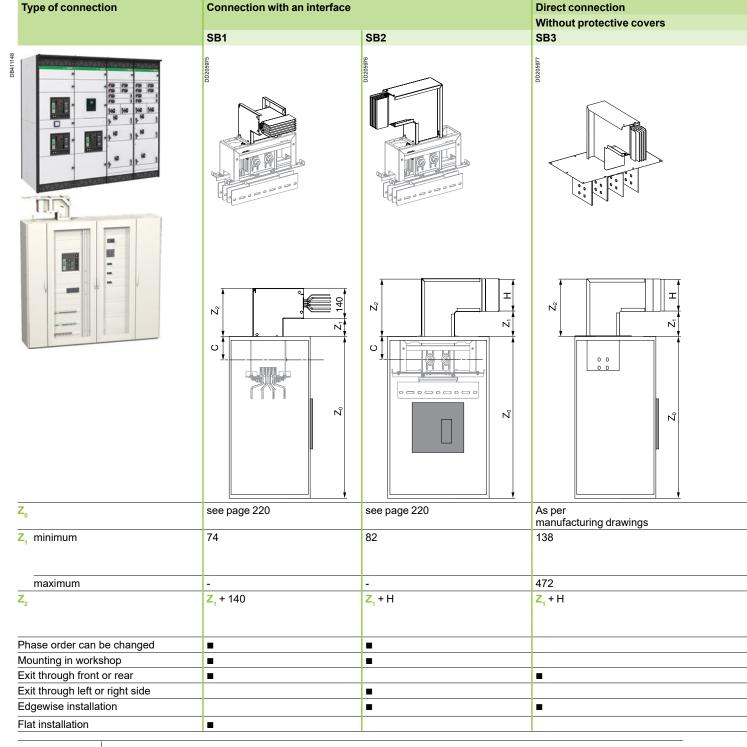


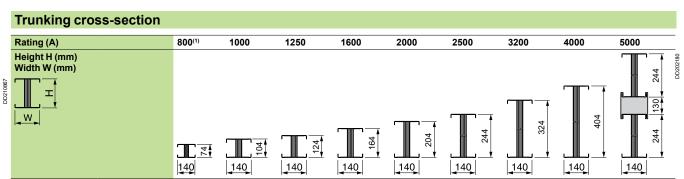
Connection to LV switchboards Selection guide

Canalis KTA

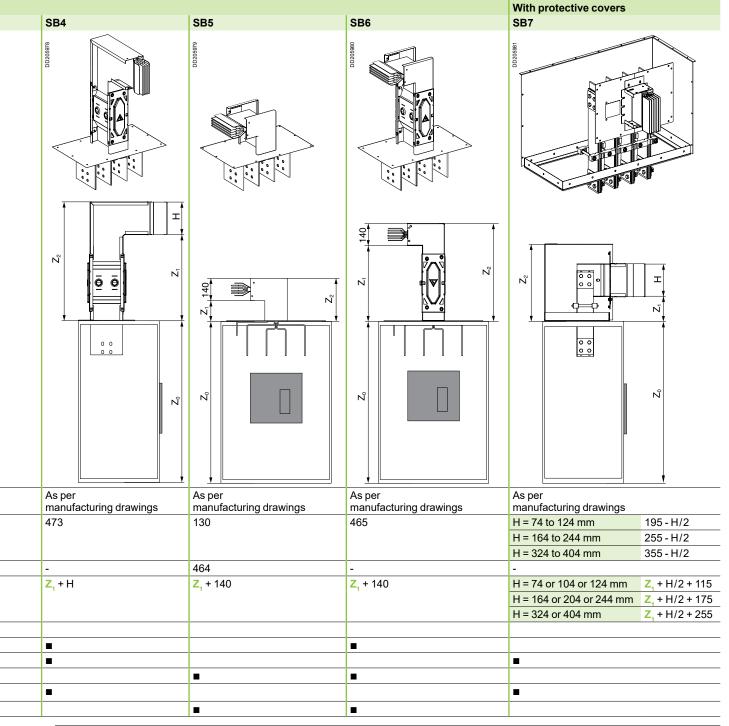
This guide may be used to:

- select the connection best suited to your installation (incoming direction, trunking installed flat or edgewise, different phase order)
- check the total height of the connection with respect to the ceiling, i.e. dimension Z0 + Z2 (100 mm minimum clearance required between top of connection and ceiling)
- optimise the connection by ensuring that (Z0 + Z1)_{switchboard} = (Z0 + Z1)_{transformer} to avoid having to use elbows and zed units
- position the fixing devices used to support the trunking.





(1) Important: for the 800 A rating, indicate "KTA0800".



Connection to LV switchboards By Canalis interface

Canalis KTA



Switchboards can be equipped with connections for Canalis KT. Jointing with the switchboard is via a standard run component (straight length, elbow, etc.) and a jointing unit (identical to those used between line components). The trunking enters the switchboard via the top (roof).

Switchboard connections are available from 800 to 4000 A.

Type of switchboard	Rating of trunking (A)	Type of circuit breaker	Type of connection
Prisma P	800 to 1600	Compact NS	Top direct and rear
		Masterpact 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

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)

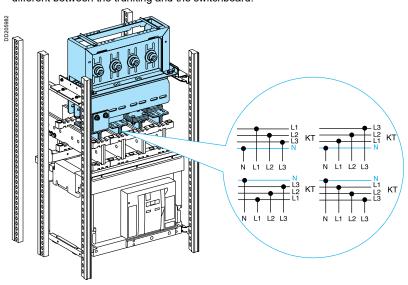
Canalis K	Canalis KT			Circuit breakers in Okken and Prisma P switchboards						
		NS - MTZ1/NT - MTZ2/NW			NS - MTZ2/NW			MTZ2/NW		
Cat. no.	Rating	Height	Sealing kit	800 and 1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
(A) (mm)			Interface 08/16			Interface 20/25		Interface 32	Interface 40	
		H164 ⁽³⁾			H244 ⁽³⁾		H404 ⁽³⁾	H404 ⁽³⁾		
KTA1000	1000	104	KTB0104TT01							
KTA1250	1250	124	KTB0124TT01							
KTA1600	1600	164	KTB0164TT01							
KTA2000	2000	204	KTB0204TT01							
KTA2500	2500	244	KTB0244TT01							
KTA3200	3200	324	KTB0324TT01							
KTA4000	4000	404	KTB0404TT01							

- (1) The compatibilities indicated correspond to the electrical connection possibilities; in all cases, coordination between circuit breaker and electrical busbar trunking must be checked. (2) Coordination with a dry-type transformer, see the "Transformer" section, page 235.
- (3) Height of the jointing unit in millimetres.

The prefabricated connections installed in the switchboard are designed to operate without derating and can therefore operate at the rated circuit breaker current.

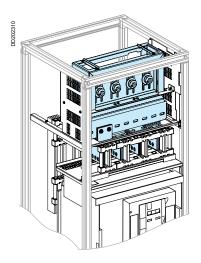
Phase order

Using the dedicated interface, it is possible to change the phase order if it is different between the trunking and the switchboard.



By Canalis interface Connection to Okken switchboards

Top direct connection (TDC)

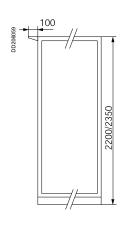


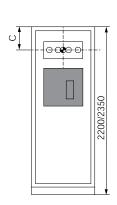
To 800 to 4000 A Masterpact MTZ2/NW circuit breakers
■ Enclosure 600 or 1000 mm deep, access through the front.

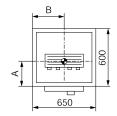
Position of the jointing unit

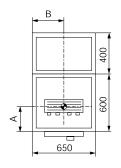
Circuit breaker	Dimen	Dimensions (mm)			
		Α	В	С	
Drawout, 3P/4P ⁽¹⁾	MTZ2/NW 08/16	175	325	156	
	MTZ2/NW 20/25	175	325	156	
	MTZ2/NW 32	175	325	156	
	MTZ2/NW 40	175	325	156	

(1) To order, see "Catalogue numbers", page 78.









• Reference point

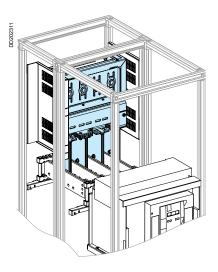
Connection to LV switchboards

By Canalis interface

Connection to Okken switchboards

Canalis KTA

Rear connection (RC)



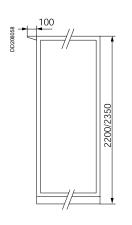
To 800 to 4000 A Masterpact MTZ2/NW circuit breakers

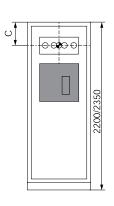
■ Enclosure 1000, 1200 or 1400 mm deep, access through the rear.

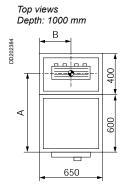
Position of the jointing unit

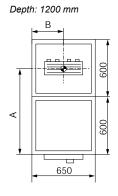
Circuit breaker	Dimer	nsions				
		Α		В	С	
	Depth	(mm)				
		1000	1000 1200			
Drawout, 3P/4P ⁽¹⁾ ,	MTZ2/NW 08/16	825	-	-	363	317
top position	MTZ2/NW 20/25	825	-	-	363	317
	MTZ2/NW 32	825	-	-	363	317
	MTZ2/NW 40	-	953	-	363	156
Drawout, 3P/4P ⁽¹⁾ ,	MTZ2/NW 08/16	825		-	363	942
medium position	MTZ2/NW 20/25	825		-	363	942
	MTZ2/NW 32	825		-	363	942
	MTZ2/NW 40	-	953	-	363	881
Drawout, 3P/4P ⁽¹⁾ ,	MTZ2/NW 08/16	-	-	1225	363	1417
bottom position	MTZ2/NW 20/25	-	-	1225	363	1417
	MTZ2/NW 32	-	-	1225	363	1417

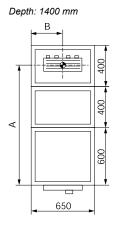
(1) To order, see "Catalogue numbers", page 78.











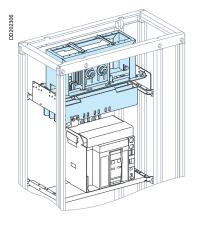
♠ Reference point

Bottom connection

For installations with connections through the bottom, please consult us.

By Canalis interface Connection to Prisma P switchboards

Top direct connection (TDC)



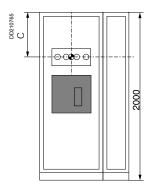
To a Compact NS1250 or Masterpact MTZ1/NT 1200 circuit breaker

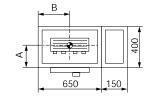
■ Enclosure 400 mm deep, access through the front.

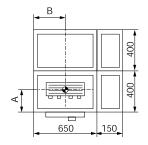
Position of the jointing unit

Circuit breaker	Dimensions ⁽¹⁾ (mm)			
		Α	В	С
Fixed, 3P/4P ⁽²⁾	NS800/1250	236	325	160
	MTZ1/NT 08/12	260	325	160
Drawout, 3P/4P ⁽²⁾	NS800/1250 or 08/MTZ1/NT 12	260	325	170

- (1) Dimensions measured from switchboard framework.
- (2) To order, see "Catalogue numbers", page 76.







Reference point

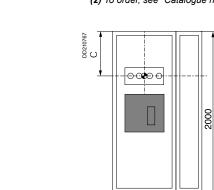
To 800 to 3200 A Masterpact MTZ2/NW circuit breakers

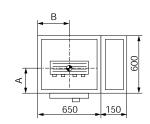
■ Enclosure 600 mm deep, access through the front.

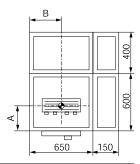
Position of the jointing unit

Circuit breaker	Dimensions ⁽¹⁾ (mm)			
		Α	В	С
Fixed, 3P/4P ⁽²⁾	MTZ2/NW 08/16	185	325	264
	MTZ2/NW 20/25	185	325	289
	MTZ2/NW 32	185	325	264
Drawout, 3P/4P(2)	MTZ2/NW 08/16	185	344	164
	MTZ2/NW 20/25	185	344	214
	MTZ2/NW 32	185	344	214

- (1) Dimensions measured from switchboard framework.
- (2) To order, see "Catalogue numbers", page 75.









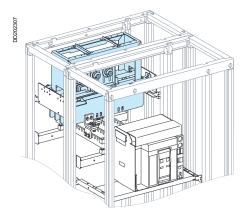
Connection to LV switchboards

By Canalis interface

Connection to Prisma Pswitchboards

Canalis KTA

Rear connection (RC)



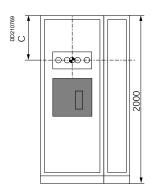
To a Compact NS1600 or Masterpact MTZ1/NT 1600 circuit breaker

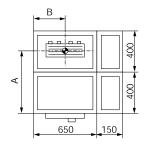
- Two enclosures combined:
- □ 1 enclosure, 400 mm deep, for the circuit breaker
- □ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

Position of the jointing unit

Circuit breaker	Dimensions ⁽¹⁾ (mm)			
		Α	В	С
Fixed, 3P/4P ⁽²⁾	NS800/1600 or MTZ1/NT 08/16	638	325	160
Drawout, 3P/4P ⁽²⁾	NS800/1600 or MTZ1/NT 08/16	638	325	170

- (1) Dimensions measured from switchboard framework.
- (2) To order, see "Catalogue numbers", page 76.





• Reference point

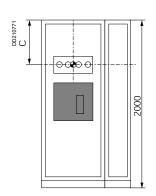
To 800 to 4000 A Masterpact MTZ2/NW circuit breakers

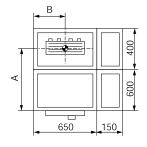
- Two enclosures combined:
- □ 1 enclosure, 600 mm deep, for the circuit breaker
- □ 1 enclosure, 400 mm deep, for the Canalis KT/switchboard interface.

Position of the jointing unit

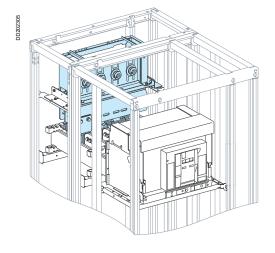
Disjoncteur	Dimen	Dimensions ⁽¹⁾ (en mm)			
		Α	В	С	
Fixed, 3P/4P ⁽²⁾	MTZ2/NW 08/16	815	325	264	
	MTZ2/NW 20/25	757	325	414	
	MTZ2/NW 32	774	325	414	
	MTZ2/NW 40	790	325	414	
Drawout, 3P/4P(2)	MTZ2/NW 08/16	815	317	414	
	MTZ2/NW 20/25	815	342	414	
	MTZ2/NW 32	815	317	439	
	MTZ2/NW 40	790	325	414	

- (1) Dimensions measured from switchboard framework.
- (2) To order, see "Catalogue numbers", page 75.



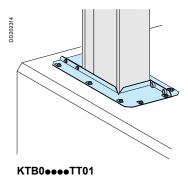


♣ Reference point



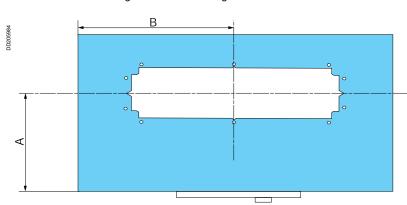
By Canalis interface Connection to Okken and Prisma P switchboards

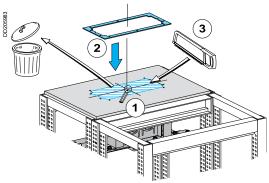
Sealing kit

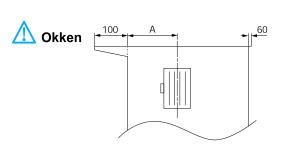


The sealing kit must be ordered with the KT trunking. The size of the trunking determines that of the sealing kit. For the different types of kit, see the "Catalogue numbers and dimensions" pages.

The kit includes a drilling and cut-out drawing for the switchboard roof.

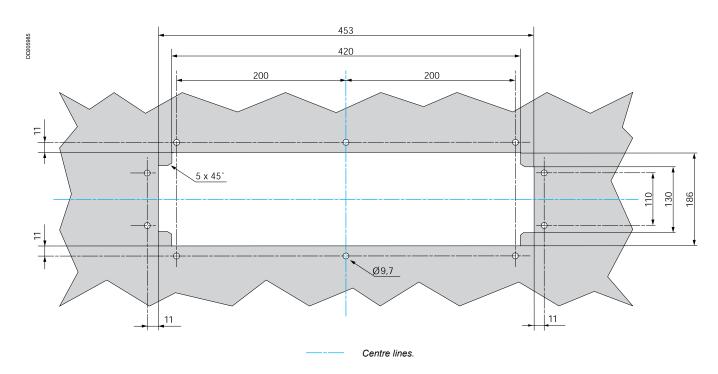






Cut-out drawing (for all the ratings)

It is advised to cut out the switchboard roof in the workshop. **Important**: the dimensions are measured from switchboard framework.



Connection to LV switchboards By universal feed unit

Canalis KTA



Busbars in switchboard (recommended distance between centres = 115 mm)

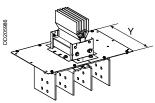
Canalis KT can be connected to switchboards via a universal connector. To simplify the work, it is advised to fit the switchboard busbars with a distance between centres of 115 mm.

Jointing with the switchboard is via a straight or elbow universal feed unit with a straight or flat outlet.

Connections are made using torque nuts offering both ease of use and the possibility of a visual check before energising.

Enclosure depth depending on the rating of the trunking

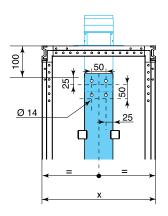
Rating of trunking (A)	Depth Y of universal feed unit plate (mm)	Minimum depth X of switchboard (mm)
1000 to 1250	230	400
1600 to 2500	350	400
3200 to 4000	510	600

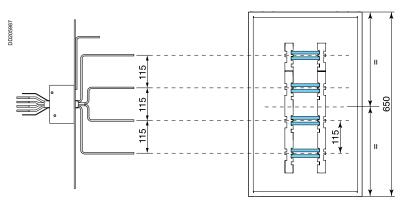


KTA eeee FRee

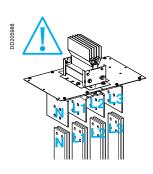


KTA0000YB2

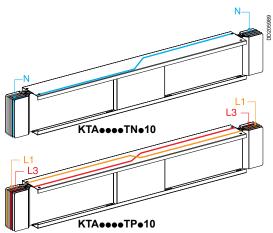




Phase order



If the order of the phases in the trunking and the switchboard is different, it is advised to invert the phases in the switchboard. If that is not possible, use the phase and neutral crossover components. For more information, see the "Description" section, page 35 and "Catalogue numbers and dimensions" section, page 58.

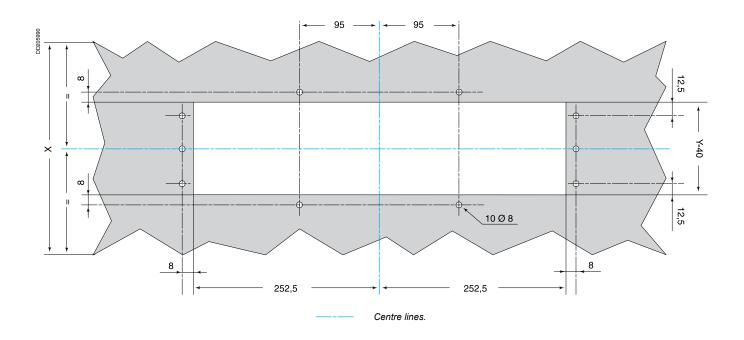


Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.

Cut-out for universal feeder unit, with distance between centres = 115 mm

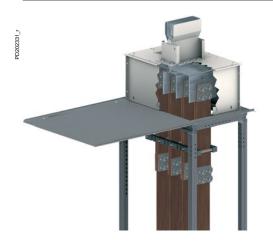
Rating of trunking (A)	Depth Y of universal feed unit plate (mm)
1000 à 1250	230
1600 à 2500	350
3200 à 4000	510



Connection to LV switchboards

By feed and connection plates

Canalis KTA



Universal feed unit (recommended distance between centres = 115 mm)

Connection plates are flexible copper bars, insulated or not, and drilled at one or both ends. They are supplied with bolts, washers and torque nuts for connection to straight or elbow universal feed units.

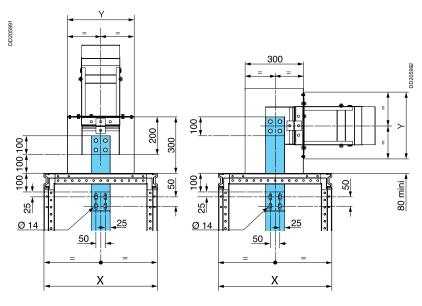
To simplify the work, it is advised to universal feed units with a distance between centres of 115 mm

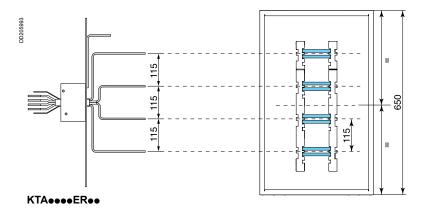
Enclosure depth depending on the rating of the trunking

Rating of trunking (A)	Depth Y of universal feed unit plate (mm)	Minimum depth X of switchboard (mm)
1000 to 1250	230	400
1600 to 2500	350	400
3200 to 4000	510	600

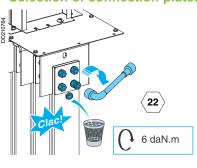
Vertical incomer

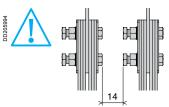
Horizontal incomer



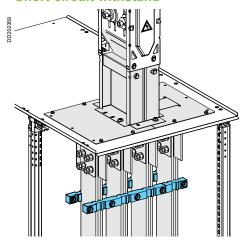


Selection of connection plates

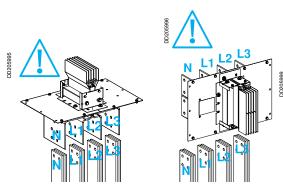




Short-circuit withstand



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 (1)	Section (mm²)			
1000	2 (100 x 5)	1000			
1250	2 (100 x 5)	1000			
1600	2 (100 x 5)	1000			
2000	3 (100 x 5)	1500			
2500	3 (100 x 5)	1500			
3200	4 (100 x 5)	2000			
4000	5 (100 x 5)	2500			
5000	6 (120 x 5)	3600			

Connection plates	98201200	1 2	2 2	2 3	3 3
Busbar trunking rating (A)	1000 to 1600	2000 to 2500	3200	4000	5000

(1) The number of bimetal aluminium copper connections per phase is the same as bare copper ones.

Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bimetal aluminium copper.

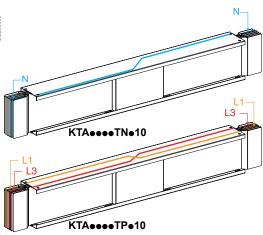
Short-circuit withstand table

Short-time withstand current (Icw)	Maximum distance between support centres X (mm)
≤ 43 kA	400
43 kA ≤ lcw ≤ 50 kA	225
50 kA ≤ lcw ≤ 100 kA	150

Vertical incomer Horizontal incomer 100 100 х Χ 100 100

If the order of the phases in the trunking and the switchboard is different, it is advised to invert the phases in the switchboard. If that is not possible, use the phase and neutral crossover components.
For more information, see the "Description" section, page 35 and

"Catalogue numbers and dimensions" section, page 58.

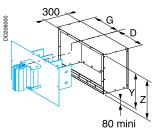


Connection to LV switchboards

By feed and connection plates

Canalis KTA

Dimensions of protective covers



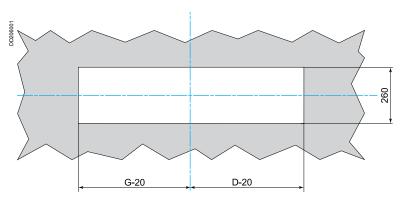
KTB••••CR1

Horizontal incomer Rigid horizontal cover KTB •••• CR1 for ER straight outlet feed connectors type N1 to N6

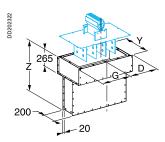
Rating (A)	Dimensio	Dimensions (mm)						
	Y	D	G	Z				
800 to 1250	230	220 to 475	220 to 475	310 to 800				
1600 to 2500	350	220 to 475	220 to 475	430 to 800				
3200 to 4000	510	220 to 475	220 to 475	590 to 800				

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop...



Centre lines.



KTB•••CR2

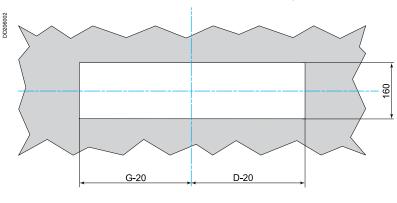
Vertical incomer

Rigid vertical cover KTB••••CR2 (400 to 800 mm height) for ER straight outlet feed connectors type N1 to N6

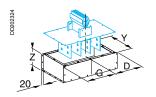
Rating (A)	Dimensi	Dimensions (mm)						
	Υ	D	G	Z				
800 to 1250	230	220 to 475	220 to 475	400 to 800				
1600 to 2500	350	220 to 475	220 to 475	400 to 800				
3200 to 4000	510	220 to 475	220 to 475	400 to 800				

Cut-out drawing

It is advised to cut out the switchboard roof in the workshop.



——— Centre lines.



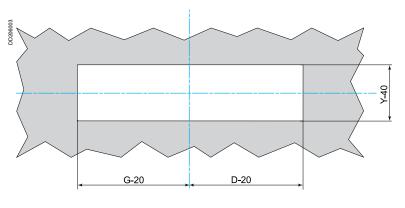
KTB•••CR3

Rigid vertical cover KTB••••CR3 (100 to 400 mm height) for ER straight outlet feed connectors type N1 to N6

Calibre (A)	Dimensi	Dimensions (mm)						
	Y	D	G	Z				
800 to 1250	230	220 to 475	220 to 475	400 to 800				
1600 to 2500	350	220 to 475	220 to 475	400 to 800				
3200 to 4000	510	220 to 475	220 to 475	400 to 800				

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 KTA

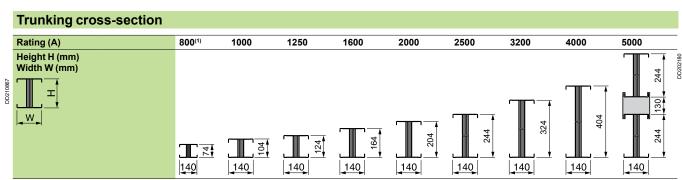
This guide will allow you to:

- 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:
- (Z₀ + Z₁)_{switchboard} = (Z₀ + Z₁)_{transformer} to avoid multiple elbows to change levels

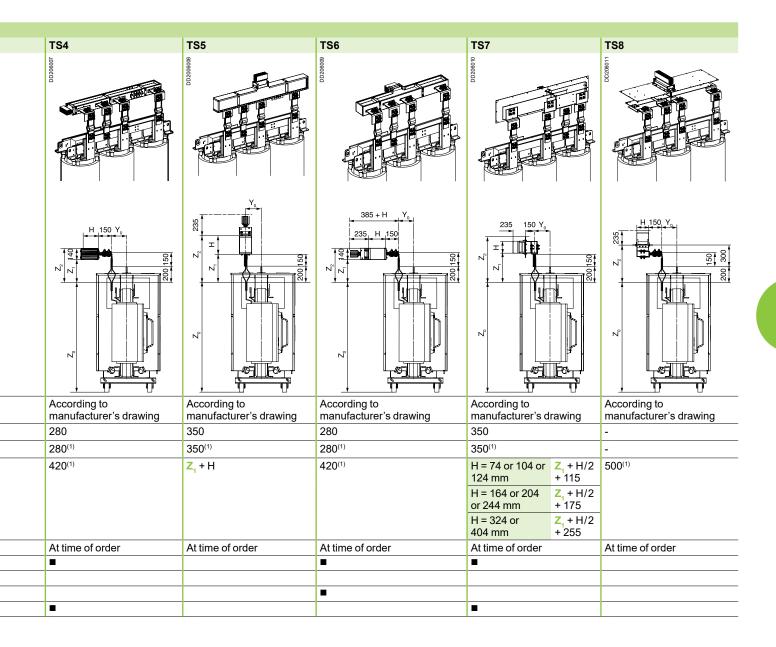
 position the sections for the busbar trunking supports.

Type of connection	Connection with interface to		Universal connection		
	TS1	TS2	TS3		
Tesszoza -	P00000000	30000000000000000000000000000000000000	DDZOGOOS		
	Z 2 1400		Z, H H Z, D J J J J J J J J J J J J J J J J J J		
Z_0	See page 235	See page 235	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	•				

(1) To use standard connection plates L = 406 mm in accordance with our recommendations.



(1) Important: for the 800 A rating, indicate "KTA0800".



Connection to Trihal Dry type transformers

Selection guide

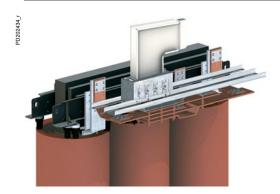
Canalis KTA 5000

KTA Trihal Dry type Transfomer connection

Вох		Flexible links reference and quantity	Connection plates reference and quantity	Bolts sets reference and quantity
LSS82ZAGO		D8428025	PRESSERIES	00 00 00 00 00 00 00 00 00 00 00 00 00
Catalogue number	Polarity	KTB0100YC50510B	KTB0000YP24	KTB0000YB4
KTB0001CR5	3P	12	3	6
	4P	16	4	8

Connection to Trihal cast resin transformers

By Canalis interface



The Trihal dry-type transformers are supplied with a specific interface tested to receive the Canalis KT busbar trunking. Jointing with the switchboard is achieved using a standard run section (straight, elbow section, etc) and a joint block identical to that for connecting run elements.

The Canalis KT/dry type transformer interface, which is fitted to the transformer, is designed to accept the transformer's 25 % overload in the case of forced ventilation.

The connections are tested and qualified in normal operating conditions with respect to temperature rise ($\Delta\theta$) and short-circuits (Isc).

The busbar trunking is quickly connected to the dry-type transformer using a simple joint block with torque nuts, guaranteeing tightening torque.

Table of compatibility between Canalis KT and the connection interface for naturally ventilated (AN) dry-type transformers.

Dry-type transformer					Canalis KT	
Rating I nominal(1)		Interf	ace		Cross-section	Туре
(kVA) (A)	Туре	Junction	Rating (A)			
630	887	1	H124	1250	140 x 104	KTA1000
800	1126	2	H164	1600	140 x 124	KTA1250
1000	1408	3	H204	2000	140 x 164	KTA1600
1250	1760	4	H244	2500	140 x 204	KTA2000
1600	2253	5	H324	3200	140 x 244	KTA2500
2000	2816	6	H404	4000	140 x 324	KTA3200
2500	3520	7	H404	5000	140 x 404	KTA4000

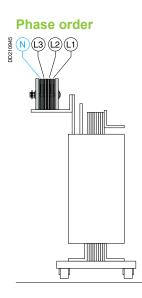
(1) I is given as an indication only and is calculated with U - 410 V.

Table of compatibility between Canalis KT and the connection interface for forced ventilated (AF) dry-type transformers.

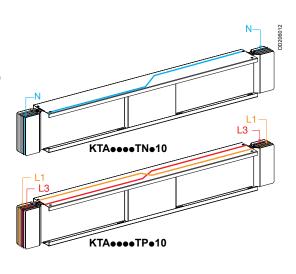
		` '				
Dry-type transformer					Canalis KT	
Rating I nominal ⁽¹⁾ (kVA) (A)		Interface			Cross-section	Туре
		Туре	Junction	Rating (A)		
630	1108	1	H124	1250	140 x 124	1250
800	1407	2	H164	1600	140 x 164	1600
1000	1760	3	H204	2000	140 x 204	2000
1250	2253	4	H244	2500	140 x 244	2500
1600	2816	5	H324	3200	140 x 324	3200
2000	3520	6	H404	4000	140 x 404	4000

(1) I is given as an indication only and is calculated with U - 410 V.

If, for reasons of busbar trunking operating conditions or performance requirements, you have to use a rating other than those defined in the above tables, consult us.



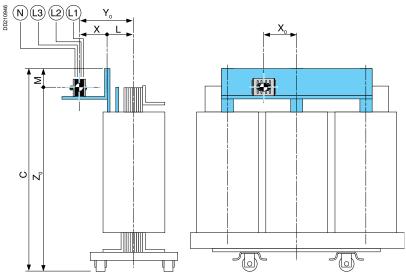
If the phase order of the busbar trunking is different to that of the switchboard's busbars. it is recommended a phase inversion is carried out in the switchboard. If this cannot be done, use the phase and neutral transposition section. For more information, see the "Description" section, page 35 and "Catalogue numbers and dimensions" section, page 58.



Connection to Trihal cast resin transformers

By Canalis interface

Canalis KTA



• Reference point

Dimensions X, M and X,

Dimensions	Trans	Transformer power (kVA)					
(mm)	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 Y₀ and Z₀

 $Y_0 = X + L$ $Z_0 = C - M$

Dimensions C and L are different according to country standards.

French standard

FT no.235627 rev. 3 - Primary voltage: 20 kV - Insulation voltage: 24 kV -Secondary voltage: 410 V

Dimensions	Transformer power (kVA)						
(mm)	630	800	1000	1250	1600	2000	2500
С	1614	1744	1749	1929	2089	2209	2297
L	220	225	240	240	240	257	275

German standard

FT no.235763 rev. 0 - Primary voltage: 20 kV - Insulation voltage: 24 kV -Secondary voltage: 400 V

Dimensions	Transf	Transformer power (kVA)								
(mm)	2000	2500								
С	1734	1744	1749	2019	1979	2199	2279			
L	210	220	225	245	255	255	265			

FT no.235515 rev. 3 - Primary voltage: 20 kV - Insulation voltage: 24 kV -Secondary voltage: 420 V

Dimensions	Transf	ormer p	ower (kV	A)		
(mm)	630	800	1000	1250	1600	2000
С	1614	1744	1879	1929	1979	2194
L	220	225	215	245	250	245

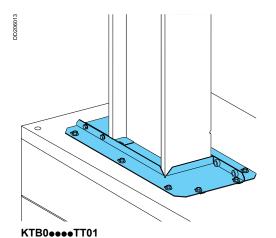
Belgian standard

FT no.235820 rev. 0 - Primary voltage: 15 kV - Insulation voltage: 17.5 kV -Secondary voltage: 400 V

Dimensions (mm)	Transf	Transformer power (kVA)								
	630	800	1000	1250	1600	2000	2500			
С	1484	1564	1694	1844	2054	2149	2164			
L	215	210	215	225	230	255	235			

Dimensions

Sealing kit

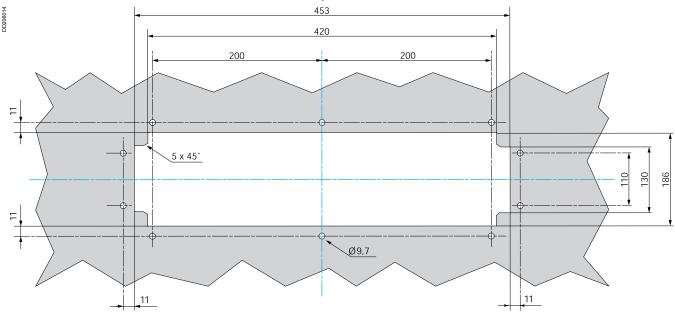


The sealing kit must be ordered with the KT busbar trunking. The busbar trunking size defines the sealing kit size. For the different types of kit, see «Catalogue numbers / Dimensions».

The kit includes a drilling and cut-out template for the dry-type transformer panels.

Cut-out drawing

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

Canalis KTA



Canalis KT can be connected to cast resin transformers using a universal feed. The connection is made using a flexible busbar (connection plates or braids) to avoid transmitting vibrations and expansions. The connection plates are made up of either insulated or non-insulated flexible copper bars, drilled at one or both ends. A nut and bolt kit allows connection to the feed.

The connections use torque-head bolts which provide both ease of installation and visual inspection of correct tightening before energising.

If the transformer is supplied with panels, provide for an additional cover to maintain the protection degree.

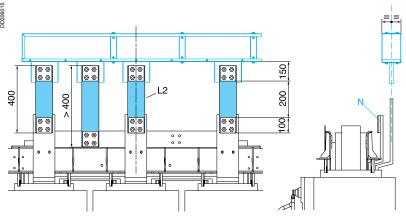
Choice of Canalis KT busbar trunking rating according to transformer power.

Transformer	Transformer							
Power (kVA)	I nominal ⁽¹⁾ (A)	power ⁽²⁾ (A)						
630	887	1000						
800	1126	1250						
1000	1408	1600						
1250	1760	2000						
1600	2253	2500						
2000	2816	3200						
2500	3520	4000						

⁽¹⁾ I is given as an indication only and is calculated with U = 410 V and at transformer nominal setting, without forced ventilation.

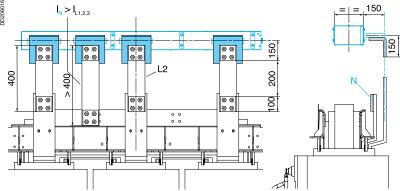
Recommended configurations for shortcircuit withstand (connection plate L = 400 mm)

TS3 and TS5 universal connection, edgewise mounting



KTA••••EL•1 or KTA••••EL•2 or KTA••••EL•3 or KTA••••EL•4

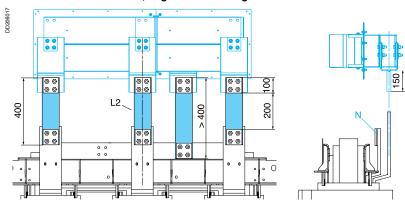
TS4 and TS6 universal connection, flat mounting (using angle brackets)



KTA••••EL•1 or KTA••••EL•2 or KTA••••EL•3 or KTA••••EL•4 with angle bracket KTB0000YE1

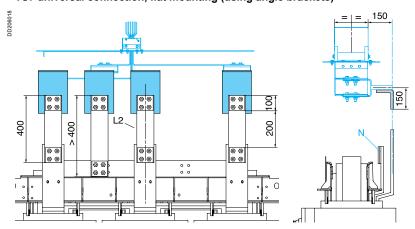
⁽²⁾ The busbar trunking rating is defined for normal operating conditions.

TS7 universal connection, edgewise mounting



KTA••••EL•5

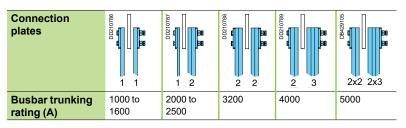
TS7 universal connection, flat mounting (using angle brackets)



KTA●●●EL●5 with angle bracket KTB0000YE

The number of connection plates is defined in the table below:

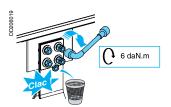
Busbar trunking rating (A)	Bare copper connection plates per phase						
	Number (1)	Cross-section (mm²)					
1000	2 (100 x 5)	1000					
1250	2 (100 x 5)	1000					
1600	2 (100 x 5)	1000					
2000	3 (100 x 5)	1500					
2500	3 (100 x 5)	1500					
3200	4 (100 x 5)	2000					
4000	5 (100 x 5)	2500					
5000	10 (YC5 - 100 x 5)	5000					



(1) The number of bimetal aluminium copper connections per phase is the same as bare copper ones.

Note: 2 (100 x 5) bare copper can be replaced by 2 (100 x 7) bimetal aluminium copper.

Definition of connection plates



Connection to cast resin transformers

By universal feed and connection plates

Canalis KTA

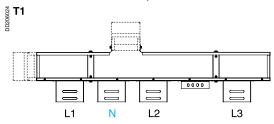
Phase order

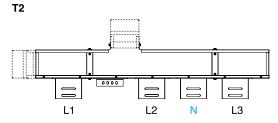
Phase selection is made when the feed is ordered.

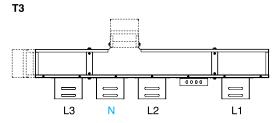
Phase L2 is fixed and can therefore be used as a reference for installing the feed on the transformer.

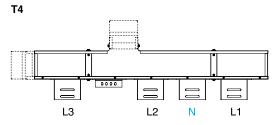
The different phase selection possibilities (T)

■ Dedicated feeds N1 to N4,



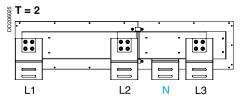


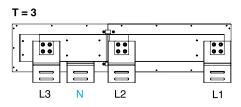




Important: the drawings and references above correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse T=1 with T=3 and T=2 with T=4.

■ Feed with flat bars N5.





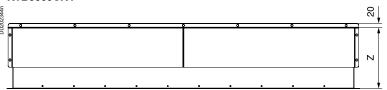
Important: the drawings and references above correspond to a phase order of N321, joint block side. If the phase order on the joint block side is N123, inverse L1 and L3 on the transformer side marking.

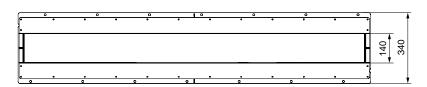
Dimensions of protective covers

Vertical protection covers for dry-type transformer feeds N1, N2, N3 and N4 $\,$

Rating (A)	Dimensions	Dimensions (mm)								
	Υ	Z Minimum	Maximum							
800 to 1250	230	200	350							
1600 to 2500	350	200	350							
3200 to 4000	510	200	350							

KTB0000CR4

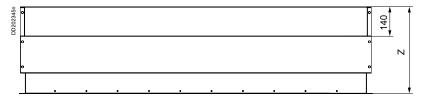


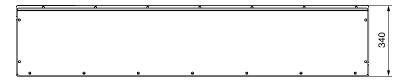


Horizontal protection covers for dry-type transformer feeds N1, N2, N3 and N4 $\,$

Rating (A)	Dimensions (mm)							
	Υ	Z						
		Minimum	Maximum					
800 to 1250	230	330	480					
1600 to 2500	350	330	480					
3200 to 4000	510	330	480					

KTB0000CR5





Connection to cast resin transformers

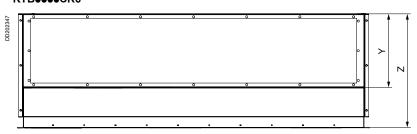
By universal feed and connection plates

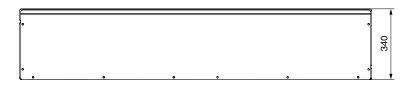
Canalis KTA

Horizontal protection cover for dry-type transformer feed N5

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

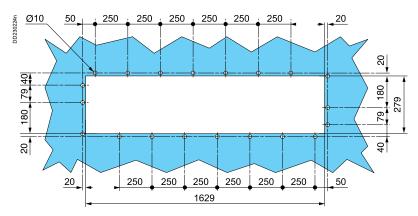
KTB••••CR6





Cut-out drawing for dry-type transformer panels

It is recommended that the cutting-out of the transformer panels is done in the workshop.

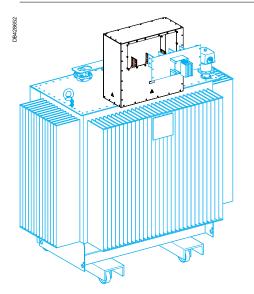


View from the top of the transformer.

Connection to Minera immersed transformers

Horizontal selection guide

Canalis KTA



Canalis KT is easily connectable to Minera transformers.

A pre-designed interface including cover, flexible links and bolts is installed in place of the cable box delivered (or not) with the transformer.

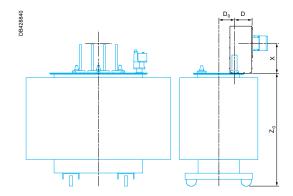
This solution that connects end feed units ER1 to ER6, make the design simple and fast.

- Position of the flange is given by the table 1.
- Products that compose the interface are given in the table 2.

The dimensions D and X are given by the Table 1.

D_o and Z_o must be taken from the transformer documentation.

The interface is always centered in the middle of the transformer indifferently for the 3P or 4P versions.



KTA Miner	ra interfaces comp	osition - horizor	ital inco	mer
	Protective covers		Flexible I	inks reference and quantity
	DB428460		D9428071	
Tuna	Catalagua numbar	D (mama) 7 (mama)	Dolovity	KTD0400VC207A

Туре	Catalogue number	D (mm)	Z (mm)	Polarity	KTB0100\ (dimension L = 320 A = 32 B = 60 C = 34 D = 32 E = 2 F = 2 Y = 25		L = 350 A = 32 B = 31 C = 15 D = 32 E = 2 Y = 25	L = 350 A = 32 B = 31 C = 53 D = 32 E = 2 Y = 25	L = 320 A = 32 B = 40 C = 15 D = 32 E = 2 F = 2 Y = 25	L = 320 A = 32 B = 40 C = 53 D = 32 E = 2 Y = 25
KTA H1	KTB0230CR71	150	320	3P 4P	6		-			-
KTA H2	KTB0350CR71	150	320	3P 4P	6					
KTA H3	KTB0350CR72	150	350	3P 4P		6				
KTA H4	KTB0350CR72	150	350	3P 4P		9				
KTA H5	KTB0350CR73	150	400	3P 4P		12	6	3 5		
KTA H6	KTB0510CR71	150	435	3P 4P			1	5	6 8	6 8
KTA H7	KTB0510CR72	180	470	3P 4P					U	O
KTA H8	KTB0510CR72	180	470	3P 4P						
KTA H9	KTB0510CR73	180	510	3P 4P						
KTA H10	KTB0726CR71	180	469	3P 4P						

Interface details, see page 90.

Horizontal incomer interface

Minera t	ransform	er	Canalis K	T feed unit	ER1, ER2, E	ER3, ER4, E	R5, ER6				
Rating (kVA)		Bar bushing dimensions (mm)	Between centres J, K and M (mm)	KTA1000	KTA1250	KTA1600	KTA2000	KTA2500	KTA3200	KTA4000	KTA5000
630	887	31.5 31.5 31.5	150	Type KTA H1	Type KTA H1						
800	1126	Ø115 Ø145			Type KTA H1	Type KTA H2					
1000	1408	315 315 12 315 42 13 315 45 13 011 0145				Type KTA H3	Type KTA H4				
1250	1760	57 31.5 100 31.5 31.5 121 2	170				Type KTA H5	Type KTA H5			
1600	2253	31.5 98 8						Type KTA H5	Type KTA H6		
2000	2816	\$ 120 \$ 35 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50 \$ 5							Type KTA H7	Type KTA H8	
2500	3520	50 25 -11-20								Type KTA H9	Type KTA H10
3150	4435	20 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0									Type KTA H10

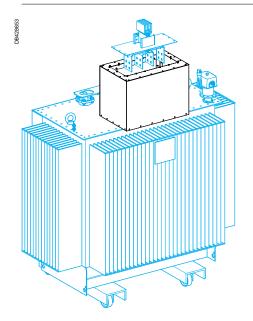
						Bolts sets refer	ence and quant	ity	Connection plates
						SPECTROL OF THE PROPERTY OF TH	OBSTANCE OF THE PROPERTY OF TH	Described	A.A.
KTB0120						KTB0000YB3	KTB0000YB4	KTB0000YB5	KTB0000YP21
(dimension									
A = 50 B = 24 C = 20 D = 50	L = 370 A = 50 B = 24 C = 50 D = 50 E = 2 F = 2 Y = 20	L = 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	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				
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
						1		1	
 						1		1	
						1.1		1	
				-		1		1	
		-		-		1		1	
6	6	+		-	-		2	1	
6 8	6 8	+		 	-		2		
9	6	+			-	-	2		
12	8	+		 	-	-	2		
14	U	9	6	 	-	-	2		
+		12	8	 			2		
+	 	14	U	9	9		1		3
+	 	+		12	12	-	1		4
				1	12		<u> </u>	<u> </u>	4

Set of bolts details, see page 105.

Connection to Minera immersed transformers

Vertical selection guide

Canalis KTA



Canalis KT is easily connectable to Minera transformers.

A pre-designed interface including cover, flexible links and bolts is installed in place of the cable box delivered (or not) with the transformer.

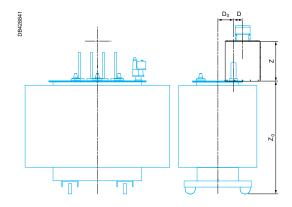
This solution that connects end feed units ER1 to ER6, make the design simple and fast.

- Position of the flange is given by the table 1
- Products that compose the interface are given in the table 2.

The dimensions D and Z are given by the Table 1.

D₀ and Z₀ must be taken from the transformer documentation.

The interface is always centered in the middle of the transformer indifferently for the 3P or 4P versions.



KTA Minera interfaces composition - vertical incomer

Protective covers

Flexible links reference and quantity



	1			7								
Туре	Catalogue number	D (mm)	Z (mm)	Polarity		ons in mm) L = 320 A = 32 B = 50 C = 53 D = 32 E = 2 F = 2	L = 320 A = 32 B = 60 C = 34 D = 32 E = 2 F = 2	L = 320 A = 32 B = 60 C = 15 D = 32 E = 2 F = 2	L = 320 A = 32 B = 60 C = 53 D = 32 E = 2 F = 2		DYC307A ons in mm) L = 340 A = 50 B = 20 C = 35 D = 50 E = 2 F = 2	
					Y = 31	Y = 19	Y = 25	Y = 25	Y = 25	Y = 35	Y = 35	
KTA V1	KTB0230CR81	106	480	3P	3	3						
				4P	4	4						
KTA V2	KTB0350CR81	106	580	3P			6					
				4P			8					
KTA V3	KTB0350CR81	106	580	3P			9					
				4P			12					
KTA V4	KTB0350CR82	126	600	3P				6	3			_
				4P				7	5			
KTA V5	KTB0510CR81	126	600	3P				6	6			_
				4P				8	8			
KTA V6	KTB0510CR82	179	615	3P						12		
				4P						16		
KTA V7	KTB0510CR82	179	615	3P						15		
				4P						20		
KTA V8	KTB0510CR82	179	615	3P							15	
				4P							20	
KTA V9	KTB0726CR81	179	591	3P							21	
				4P							28	

Interface details, see page 91.

Vertical incomer interface

Minera transformer		Canalis KT feed unit ER1, ER2, ER3, ER4, ER5, ER6									
Rating (kVA)	l nominal (A)	Bar bushing dimensions (mm)	Between centres J, K and M (mm)	KTA1000	KTA1250	KTA1600	KTA2000	KTA2500	KTA3200	KTA4000	KTA5000
630	887	31.5 31.5 31.5	150	Type KTA V1	Type KTA V1						
800	1126	Ø115 Ø145			Type KTA V1	Type KTA V2					
1000	1408	8 315 12 315 12 12 315 12 31 315 12 31 315 12 31 315 12 31 31 31 31 31 31 31				Type KTA V2	Type KTA V3				
1250	1760	57 31.5 100 31.5 31.5 121 2	170				Type KTA V4	Type KTA V4			
1600	2253	31.5 98 8						Type KTA V4	Type KTA V5		
2000	2816	8 120 120 120 135 120 120 135 120 135 135 135 135 135 135 135 135							Type KTA V6	Type KTA V7	
2500	3520	50 25 -11-20								Type KTA V8	Type KTA V9
3150	4435	20 0 18 0 18 0 18 0 18 0 18 0 18 0 18 0									Type KTA V9

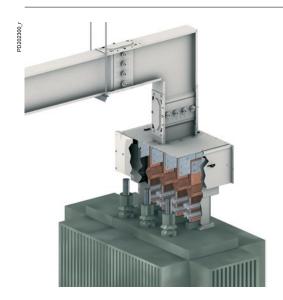
Connection plates	s reference and qu	antity			Rolts sate rof	erence and qu	antity
	s reference and qu	anuty					
0 0 0			ALA Secondo	9800000	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6882840 688	
KTB0000YP11	KTB0000YP12	KTB0000YP13	KTB0000YP14	KTB0000YP22	KTB0000YB3	KTB0000YB4	KTB0000YB5
					1		1
					1		1
3					2		1
4					2		1
3					2		1
4					2		1
	3				2		1
	4				2		1
		3			2		1
		4			2		1
			3		1	2	
			4		1	2	
			3		1	2	
			4		1	2	
			3			2	
			4		1	2	
				3		1	
				4		1	

Set of bolts details, see page 105.

Connection to oil immersed transformers

By feed and connection plates or braids

Canalis KTA



Connection to an oil immersed transformer is made using flexible bars (connection plates) to avoid transmitting transformer vibrations to the busbar trunking and to limit the stress on connection terminals.

Choice of busbar trunking

Dry-type transfe	ormer	Canalis KT alu trunking	Canalis KT aluminium busbar trunking			
Rating (kVA)	l nominal ⁽¹⁾ (A)	Rating (A)	Cross-section			
500	704	800	140 x 74			
630	887	1000	140 x 104			
800	1126	1250	140 x 124			
1000	1408	1600	140 x 164			
1250	1760	2000	140 x 204			
1600	2253	2500	140 x 244			
2000	2816	3200	140 x 324			
2500	3520	4000	140 x 404			

(1) I is given as an indication only and is calculated with U - 410 V.

Note: if, for reasons of busbar trunking operating conditions or performance requirements, you have to use a rating other than those defined in the above tables, consult us.

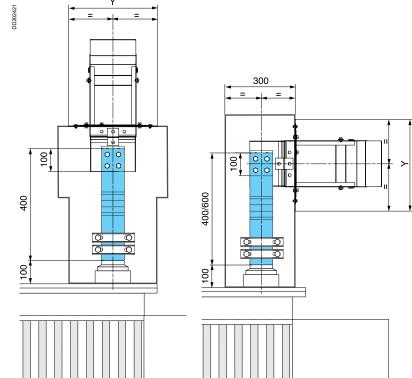
Protective cover width

Busbar trunking rating (A)	Dimensions "Y" of the feed
1000 to 1250	230
1600 to 2500	350
3000 to 4000	510

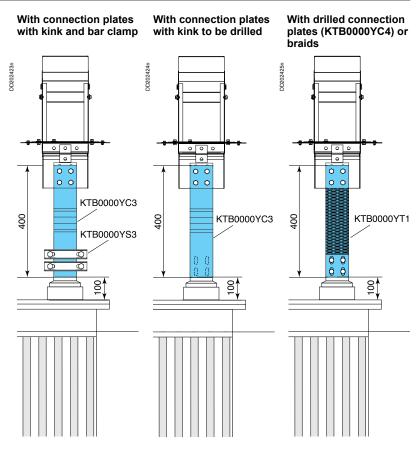
Horizontal incomer

Recommended configurations for shortcircuit withstand (connection plate L = 400 mm)

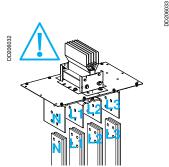
Vertical incomer

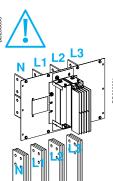


Several connection possibilities

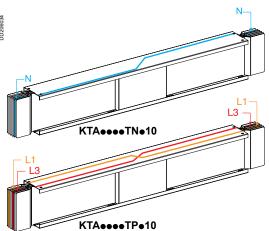


Phase order





If the phase order of the busbar trunking is different to that of the switchboard's busbars, it is recommended a phase inversion is carried out in the switchboard. If this cannot be done, use the phase and neutral transposition section. For more information, see the "Description" section, page 35 and "Catalogue numbers and dimensions" section, page 58.

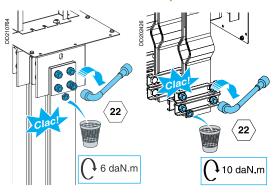


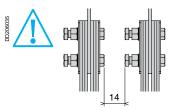
Connection to oil immersed transformers

By feed and connection plates or braids

Canalis KTA

Definition of connection plates





Definition of braids



The number of connection plates is defined in the table below:

Busbar trunking rating (A)	Bare copper connection plates per phase						
	Number	Section (mm²)					
1000	2 (100 x 5)	1000					
1250	2 (100 x 5)	1000					
1600	2 (100 x 5)	1000					
2000	3 (100 x 5)	1500					
2500	3 (100 x 5)	1500					
3200	4 (100 x 5)	2000					
4000	5 (100 x 5)	2500					
5000	8 (120 x 5)	4800					

Connection plates	98.Z01.ZDQ	1 2	2 2	2 3	BB BB 4 4 4
Busbar trunking rating (A)	1000 to 1600	2000 to 2500	3200	4000	5000

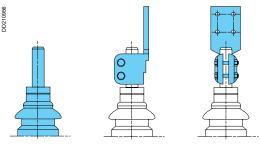
The number of braids is defined in the table below:

Busbar trunking rating (A)	Braids per phase	
	Number	Cross-section (mm²)
1000	1	600
1250	2	1200
1600	2	1200
2000	2	1200
2500	3	1800
3200	3	1800
4000	4	2400
5000	6	3000

Braids	1	98890ZQQQ	1 2	88888H	3 3
Busbar trunking rating (A)	1000	1250 to 2000	2500 to 3200	4000	5000

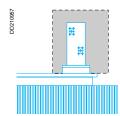
Connection to porcelain bushings

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.



Schneider

Recommendations

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Reception, handling and storage

Canalis KTA

This document contains practical information, lays out the general recommendations (as a complement to the installation regulations) and specifies the basic instructions that must be respected when handling and storing Schneider Electric Canalis busbar trunking system.

The purchaser's engineering, installation and operating staff must become acquainted with this document and become familiar with the appearance and characteristics of each of the Canalis busbar trunking system's components. Appropriate planning and coordination between the different job functions is indispensable for ensuring an efficient installation of the equipment.

Each Canalis busbar trunking system is carefully inspected and packaged at the assembly plant.

The entire system is checked both structurally and electrically. At the end of inspection, the busbar trunking system is prepared for shipping. Each section is packed to guarantee easy handling before its installation. The catalogue number is written on each shipping unit.

Warning

RISK OF ELECTRIC SHOCK, BURNS OR EXPLOSION

- Protect the equipment against all contact with water, salt, concrete and other corrosive surroundings both before and during installation.
- Outdoor equipment is not resistant to bad weather until after it has been fully and correctly installed.
- Do not sit or walk on the equipment.

If these instructions are not respected, the equipment may deteriorate leading to a risk of serious or mortal injury.

Reception

Upon reception, check the information on the shipping note corresponds to the equipment received to ensure all of the order has been received and shipped. Complaints concerning missing components or other errors must be sent in writing to Schneider Electric SAS within 30 days from the date the shipping item was received. If no complaint has been received within 30 days from the date the shipping item was received, Schneider Electric SAS will no longer be responsible for repairs or replacements that may be required.

Upon reception, check the various units of the busbar trunking system immediately to identify any damage that has occurred during transport.

If there is observed or suspected damage, file a claim immediately with the carrier and inform the nearest Schneider Electric office.

Handling

Handle Canalis products with the greatest of care to avoid damaging the internal components of the system and to avoid changing the external appearance of the various parts, as well as the bar ends (connection terminals).

The busbar trunking must be constantly supported by independent means, in such a way its weight is not resting on the top of the transformers or distribution

The distance between these support means must not exceed 3 metres.

Avoid exposing the busbar trunking to twisting, embossing or impacts, and all other actions likely to causing damage.

Ensure the handling equipment available at the site of installation is suitable for handling busbar trunking. In particular, check the lifting capacity of the crane or the other lifting equipment to be used.

Take great care when unpacking the equipment:

- use a nail-head puller when unpacking wooden crates
- if hauling the busbar trunking with a crane, use Nylon slings to spread the weight of the unit being lifted
- if using cables, insert a spacing means to avoid damaging the busbar trunking
- if using a forklift truck, position the busbar trunking on the forks in such a way the weight is evenly distributed.
- 1 Cut the strapping holding the packaging case using suitable cutting tools.
- 2 Use suitable tools to remove the strengthened steel packaging at each end of the busbar trunking.

Take care not to damage the steel box so as not to damage the busbar trunking. Avoid the use of objects with sharp edges when lifting the busbar trunking.

3 - Dispose of all used packaging in an appropriate way.

Never drag the busbar trunking along the floor. Do not use the end bars to lift sections of the busbar trunking.

Protection against humidity during storage

If the busbar trunking is not installed and commissioned immediately, leave it in the original Canalis packaging and store it in a clean and dry place at a uniform temperature.

The busbar trunking must not be stored outside. However, if outside storage is necessary, cover the busbar trunking in such a way as to protect it from bad weather and to avoid contact with the elements.

Temporary electrical heating must be provided for underneath the covering means to prevent condensation.

The supplied heat must be of suitable temperature and uniformly distributed underneath the covering means.

Outdoor busbar trunking is not resistant to bad weather until after it has been fully and correctly installed.

During installation, take particular care to protect rising mains from humidity arising from unfinished roofs, walls and other similar elements.

Deserts can provide at least 2 specific situations for KT storage from standard other locations:

- sand pollution.
- significant thermal variations nights/days that can create condensation due to the colder busduct KT compared from atmosphere when it is humid (this risk should be evaluated from local context).

About sand: When the products are not installed but in their standard transport packings, we can't completely guaranty the protection against sand/wind to not reach the products.

As it's important to keep all electrical contacts clean from any foreign body and abrasion, our products must be protected from sand during storage period before and during installation.

The optionnal sea-packaging with wood boxes is including a waterproof system, it allows to keep the products protected against the 2 above risks.

Maintenance

Run sections

Canalis KTA

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.



A periodic thermal monitoring allows tracking and detecting abnormal drifts. In case of abnormal results, check with a torque wrench, all the connections.

Туре	Torque (N.m)
Junction block bolts	60 ± 10%

If these values decrease significantly over time, consult Schneider Electric for a deeper analysis.

If needed concerned material must be replaced with new factory mounted products. Consult your local Schneider Electric office for all replacements.

Before re-energising the busbar trunking, carry out an insulation resistance test in compliance with the instructions given in the "Testing and commissioning procedure" section.

After having performed all the necessary inspections and repairs mentioned above, it may be desirable to carry out infrared temperature measurements on all the electrical connections.



Recycling

Recycling busbar trunking



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

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).

Cat. no.	Designations	Pages	Cat. no.	Designations	Pages
08000			KSB160SE5	TAP-OFF UNIT 160 A FUSE T00	120, 122
08903	12 ADHESIVE LABEL HOLDERS, H=24 MM,	126	KSB160SF4	TAP-OFF UNIT 160 A FUSE T0	120
	W=432 MM	0	KSB160SF5	TAP-OFF UNIT 160 A FUSE T0	120
08905	12 ADHESIVE LABEL HOLDERS, H=24 MM,	126	KSB160SG4	TAP-OFF UNIT 160 A FUSE BS88	125
	W=180 MM		KSB160SM413	TAP-OFF UNIT NG 160 A	115
08907	12 ADHESIVE LABEL HOLDERS, H=24 MM,	126	KSB160SM513	TAP-OFF UNIT NG 160 A	115
	W=650 MM		KSB250DC4	TAP-OFF UNIT 250 A COMPACT NS	116
			KSB250DC4TRE	TAP-OFF UNIT 250 A COMPACT NS TRE	117
13000			KSB250DC5	TAP-OFF UNIT 250 A COMPACT NS	116
13940	BLANKING PLATES, SET OF 10X5 MODULES	126	KSB250DC5TRE	TAP-OFF UNIT 250 A COMPACT NS TRE	117
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			KSB250SE5	TAP-OFF UNIT 250 A FUSE T1	120, 12
30000			KSB400DC4	TAP-OFF UNIT 400 A COMPACT NS	116
33596	ARC-CHUTE COVER, FIXED NS, 3P	77	KSB400DC4TRE	TAP-OFF UNIT 400 A COMPACT NS TRE	117
33597	ARC-CHUTE COVER, FIXED NS, 4P	77	KSB400DC5	TAP-OFF UNIT 400 A COMPACT NS	116
			KSB400DC5TRE	TAP-OFF UNIT 400 A COMPACT NS TRE	117
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47335	ARC-CHUTE COVER, FIXED NT, 3P	77	KSB400SE5	TAP-OFF UNIT 400 A FUSE T2	120, 12
47336	ARC-CHUTE COVER, FIXED NT, 4P	77	KSB400ZC1	TAP-OFF UNIT DOOR MICROSWITCH 400 A	126
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	DBA 115 INSTALLATION KIT FOR KT BBT	78	KTA0800CP31	KT 3X800AL FLAT EDGEWISE N1	70
87800	800/4000A TDC	10	KTA0800CP31	KT 3X800AL FLAT EDGEWISE N1	70
87801	DBA 115 INSTALLATION KIT FOR KT BBT	78	KTA0800CP32		70
07001	800/3200A RC	70	KTA0800CP33	KT 3X800AL FLAT EDGEWISE N3 KT 3X800AL FLAT EDGEWISE N4	70
87808	SPECIAL TIGHTENING WRENCH BIT	78		KT 4X800AL FLAT EDGEWISE N4	70
			KTA0800CP41		
KH0			KTA0800CP42	KT 4X800AL FLAT EDGEWISE N2	70
KH025SD541	KH BOX PLUG IN 3L N PE NSX250	139	KTA0800CP43	KT 4X800AL FLAT EDGEWISE N3	70
KH025SD551	KH BOX PLUG IN 3L PEN NSX250	139	KTA0800CP44	KT 4X800AL FLAT EDGEWISE N4	70
	KH BOX PLUG IN 3L PEN SECT PEHLA 400 T2		KTA0800CP51	KT 5X800AL FLAT EDGEWISE N1	70
KH040SD9502 KH040ZA07	CONNECTING BOX FOR KH040SD9502	142	KTA0800CP52	KT 5X800AL FLAT EDGEWISE N2	70
		139	KTA0800CP53	KT 5X800AL FLAT EDGEWISE N3	70
KH063SD541	KH BOX PLUG IN 3L PEN NSX630		KTA0800CP54	KT 5X800AL FLAT EDGEWISE N4	70
KH063SD551	KH BOX PLUG IN 3L PEN SECT PEULA CONTO	139	KTA0800CP71	KT 5X800AL FLAT EDGEWISE N1	70
KH063SD9502	KH BOX PLUG IN 3L PEN SECT PEHLA 630 T3		KTA0800CP72	KT 5X800AL FLAT EDGEWISE N2	70
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KHB0250SE5	KH PLUGIN 250A FUS 3LPEN ADV L & R	140	KTA0800DB510	KT 5X800AL EXPANSION UNIT	58
KHB0630SE4L	KH PLUGIN 630A FUS 3LN ADV L	141	KTA0800DB710	KT 5X800AL EXPANSION UNIT	58
KHB0630SE4R	KH PLUGIN 630A FUS 3LN ADV R	141	KTA0800EB320	KT 3X800AL BOLT ON LENGTH 2M	54
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KHB0630SE5R	KH PLUGIN 630A FUS 3LPEN ADV R	141	KTA0800EB420	KT 4X800AL BOLT ON LENGTH 2M	54
			KTA0800EB440	KT 4X800AL BOLT ON LENGTH 4M	54
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KSB25SD5	TAP-OFF UNIT 25 A FUSE E27	121	KTA0800EB720	KT 5X800AL BOLT ON LENGTH 2M	54
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KSB50SF5	TAP-OFF UNIT 50 A FUSE 14X51	119	KTA0800ED3203	KT 3X800AL PLUG-IN LENGTH 2M	52
KSB50SN4	TAP-OFF UNIT 50 A FUSE E18	121	KTA0800ED3301	KT 1X800AL PLUG-IN LENGTH	52
KSB50SN5	TAP-OFF UNIT 50 A FUSE E18	121	KTA0800ED3302	KT 2X800AL PLUG-IN LENGTH	52
KSB63SD4	TAP-OFF UNIT 63 A FUSE E33	121		KT 1X800AL PLUG-IN LENGTH	52
KSB63SD5	TAP-OFF UNIT 63 A FUSE E33	121	KTA0800ED3353	KT 3X800AL PLUG-IN LENGTH	52
KSB63SM48	TAP-OFF UNIT 63 A 8 MODULES	114	KTA0800ED3403	KT 3X800AL PLUG-IN LENGTH 4M	52
KSB63SM58	TAP-OFF UNIT 63 A 8 MODULES	114	KTA0800ED4201	KT 1X800AL PLUG-IN LENGTH 2M	52
KSB80SG4	TAP-OFF UNIT 83 A 8 MODULES TAP-OFF UNIT 80 A FUSE BS88A1	125		KT 4X800AL PLUG-IN LENGTH 2M	52
KSB100SE4	TAP-OFF UNIT 100 A FUSE BS88AT	125		KT 1X800AL PLUG-IN LENGTH	52
				KT 2X800AL PLUG-IN LENGTH	52
KSB100SE5	TAP-OFF UNIT 100 A FUSE 22X58	120, 122		KT 1X800AL PLUG-IN LENGTH	52
KSB100SF4	TAP-OFF UNIT 100 A FUSE 22X58	119		KT 3X800AL PLUG-IN LENGTH	52
KSB100SF5	TAP-OFF UNIT 100 A FUSE 22X58	119		KT 4X800AL PLUG-IN LENGTH 4M	52
KSB100SM412	TAP-OFF UNIT 100 A 12 MODULES	114		KT 1X800AL PLUG-IN LENGTH 2M	52
KSB100SM512	TAP-OFF UNIT 100 A 12 MODULES	114		KT 5X800AL PLUG-IN LENGTH 2M	52
KSB160DC4	TAP-OFF UNIT 160 A COMPACT NS	116		KT 1X800AL PLUG-IN LENGTH	52
KSB160DC5	TAP-OFF UNIT 160 A COMPACT NS	116			52
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KTA8800ED7391 KT 1X800AL PLUG-IN LENGTH	52
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KTA0800EL35 KT 3X800AL FEED UNIT EL N5 97 KTA0800ET540 KT 5X800AL FEEDER LENGTH 4M KTA0800EL42 KT 4X800AL FEED UNIT EL N2 94 KTA0800ET71A KT 5X800AL FEEDER LENGTH 2M KTA0800EL42 KT 4X800AL FEED UNIT EL N2 94 KTA0800ET72B KT 5X800AL FEEDER LENGTH 2M KTA0800EL43 KT 4X800AL FEED UNIT EL N3 96 KTA0800ET72B KT 5X800AL FEEDER LENGTH KTA0800EL45 KT 4X800AL FEED UNIT EL N3 96 KTA0800ET72B KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73E KT 5X800AL FEEDER LENGTH 4M KTA0800EL53 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3A KT 3X800AL FEEDER LENGTH 4M KTA0800EL54 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3A KT 3X800AL FEEDER LENGTH 4M KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3B KT 3X800AL FEEDER LENGTH 4M	52
KTA0800EL41 KT 4X800AL FEED UNIT EL N1 94 KTA0800ET71A KT 5X800AL FEEDER LENGTH KTA0800EL42 KT 4X800AL FEED UNIT EL N2 94 KTA0800ET720 KT 5X800AL FEEDER LENGTH 2M KTA0800EL43 KT 4X800AL FEED UNIT EL N3 96 KTA0800ET72C KT 5X800AL FEEDER LENGTH KTA0800EL44 KT 4X800AL FEED UNIT EL N5 97 KTA0800ET73C KT 5X800AL FEEDER LENGTH KTA0800EL51 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET73D KT 5X800AL FEEDER LENGTH KTA0800EL52 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73F KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800ET73F KT 5X800AL FEEDER LENGTH KTA0800EL54 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3A KT 3X800AL FEEDER LENGTH KTA0800EL55 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3A KT 3X800AL FEEDER LENGTH KTA0800EL73 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW <t< th=""><th>52</th></t<>	52
KTA0800EL42 KT 4X800AL FEED UNIT EL N2 94 KTA0800ET720 KT 5X800AL FEEDER LENGTH 2M KTA0800EL43 KT 4X800AL FEED UNIT EL N3 96 KTA0800ET72B KT 5X800AL FEEDER LENGTH KTA0800EL44 KT 4X800AL FEED UNIT EL N4 96 KTA0800ET72C KT 5X800AL FEEDER LENGTH KTA0800EL51 KT 5X800AL FEED UNIT EL N5 97 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL52 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800ET73E KT 5X800AL FEEDER LENGTH KTA0800EL54 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW	52
KTA0800EL43 KT 4X800AL FEED UNIT EL N3 96 KTA0800ET72B KT 5X800AL FEEDER LENGTH KTA0800EL44 KT 4X800AL FEED UNIT EL N4 96 KTA0800ET72C KT 5X800AL FEEDER LENGTH KTA0800EL45 KT 4X800AL FEED UNIT EL N5 97 KTA0800ET73D KT 5X800AL FEEDER LENGTH KTA0800EL51 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET73D KT 5X800AL FEEDER LENGTH KTA0800EL52 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73F KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800ET73D KT 5X800AL FEEDER LENGTH 4M KTA0800EL54 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3B KT 3X800AL FEEDER LENGTH 4M KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW	52
KTA0800EL44 KT 4X800AL FEED UNIT EL N4 96 KTA0800ET72C KT 5X800AL FEEDER LENGTH KTA0800EL45 KT 4X800AL FEED UNIT EL N5 97 KTA0800ET73D KT 5X800AL FEEDER LENGTH KTA0800EL51 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73F KT 5X800AL FEEDER LENGTH KTA0800EL52 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET73F KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800ET740 KT 5X800AL FEED ENGTH 4M KTA0800EL54 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL55 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW <th< th=""><th>52</th></th<>	52
KTA0800EL45 KT 4X800AL FEED UNIT EL N5 97 KTA0800ET3D KT 5X800AL FEED ER LENGTH KTA0800EL51 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET3E KT 5X800AL FEED ER LENGTH KTA0800EL52 KT 5X800AL FEED UNIT EL N2 94 KTA0800ET3F KT 5X800AL FEEDER LENGTH KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800FT3A KT 5X800AL FEEDER LENGTH KTA0800EL54 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER13 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW K	52
KTA0800EL51 KT 5X800AL FEED UNIT EL N1 94 KTA0800ET3E KT 5X800AL FEED LINIT EL N2 94 KTA0800ET3F KT 5X800AL FEED LINIT EL N2 94 KTA0800ET37F KT 5X800AL FEED LINIT EL N3 96 KTA0800ET37F KT 5X800AL FEED LINIT EL N3 96 KTA0800ET40 KT 5X800AL FEED LINIT EL N4 96 KTA0800ET40 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL71 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N2 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER173 KT 3X800AL FEED UNIT ER N3 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW <t< th=""><th>52</th></t<>	52
KTA0800EL52 KT 5X800AL FEED UNIT EL N2 94 KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800EL740 KT 5X800AL FEED EN LENGTH 4M KTA0800EL54 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3B KT 5X800AL FEED EN GEWISE ELBOW KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL71 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N5 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800EL75 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N3 81	52
KTA0800EL53 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3A KT 5X800AL FEEDER LENGTH 4M KTA0800EL54 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL71 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3E KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N3 82 KTA0800FC5D KT 5X800AL EDGEWISE ELBOW <	52
KTA0800EL54 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC3A KT 3X800AL EDGEWISE ELBOW KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL75 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4B KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW <th< th=""><th>52 52</th></th<>	52 52
KTA0800EL55 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC3B KT 3X800AL EDGEWISE ELBOW KTA0800EL71 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3D KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3E KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4E KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N5 82 KT 6X800AL EDGEWISE ELBOW KTA0800ER37 <th< th=""><th>74</th></th<>	74
KTA0800EL71 KT 5X800AL FEED UNIT EL N1 94 KTA0800FC3D KT 3X800AL EDGEWISE ELBOW KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3E KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL75 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 5X800AL FEED UNIT ER N1 80 KTA0800FC4D KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N4 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N6 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER37 KT 3X800AL FEED UNIT ER N7 86 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW <th< th=""><th>74</th></th<>	74
KTA0800EL72 KT 5X800AL FEED UNIT EL N2 94 KTA0800FC3E KT 3X800AL EDGEWISE ELBOW KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER75 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N6 82 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW KTA0800ER37 KT 3X800AL FEED UNIT ER N7 86 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW KTA0800ER41 KT 4X800AL FEED UNIT ER N1 80 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW <th< th=""><th>74</th></th<>	74
KTA0800EL73 KT 5X800AL FEED UNIT EL N3 96 KTA0800FC4A KT 4X800AL EDGEWISE ELBOW KTA0800EL74 KT 5X800AL FEED UNIT EL N4 96 KTA0800FC4B KT 4X800AL EDGEWISE ELBOW KTA0800EL75 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4D KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4E KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N4 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N6 82 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW KTA0800ER37 KT 3X800AL FEED UNIT ER N7 86 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW KTA0800ER41 KT 4X800AL FEED UNIT ER N1 80 KTA0800FC7B KT 5X800AL FEED UNIT ER N2 80 <	74
KTA0800EL75 KT 5X800AL FEED UNIT EL N5 97 KTA0800FC4D KT 4X800AL EDGEWISE ELBOW KTA0800ER31 KT 3X800AL FEED UNIT ER N1 80 KTA0800FC4E KT 4X800AL EDGEWISE ELBOW KTA0800ER32 KT 3X800AL FEED UNIT ER N2 80 KTA0800FC5A KT 5X800AL EDGEWISE ELBOW KTA0800ER33 KT 3X800AL FEED UNIT ER N3 81 KTA0800FC5B KT 5X800AL EDGEWISE ELBOW KTA0800ER34 KT 3X800AL FEED UNIT ER N4 81 KTA0800FC5D KT 5X800AL EDGEWISE ELBOW KTA0800ER35 KT 3X800AL FEED UNIT ER N5 82 KTA0800FC5E KT 5X800AL EDGEWISE ELBOW KTA0800ER36 KT 3X800AL FEED UNIT ER N6 82 KTA0800FC7A KT 5X800AL EDGEWISE ELBOW KTA0800ER37 KT 3X800AL FEED UNIT ER N7 86 KTA0800FC7B KT 5X800AL EDGEWISE ELBOW KTA0800ER41 KT 4X800AL FEED UNIT ER N1 80 KTA0800FC7D KT 5X800AL EDGEWISE ELBOW KTA0800ER43 KT 4X800AL FEED UNIT ER N3 81 KTA0800FP3A1 KT 3X800AL FLAT ELBOW N1 FIRE KTA0800ER45 KT 4X800AL FEED UNIT ER N5 82 KTA0800FP3B1 KT 3X800AL FLAT ELBOW N2 FIRE	74
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KTA1000YA6	KT 4X1000AL JUNCTION BLOC	60		KT 1X1250AL PLUG-IN LENGTH	52
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KTA2500ET33E	KT 3X2500AL FEEDER LENGTH	52	KTA2500FP4D1	KT 4X2500AL FLAT ELBOW N1 FIRE	73
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