



Line Series

# Canalis KR 800 - 6300 A

Catalogue 2023

Prefabricated cast resin  
busbar trunking IP68





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B

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# Introduction

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Life Is On

Schneider  
Electric



Ensure effective, reliable electrical distribution in harsh environments and for critical applications



## Canalis KR

- 800 to 6300 A / 1000 V
- Full epoxy resin
- IP68
- UV resistance
- Tropical resistance
- ATEX zone II
- Chemical resistance
- High short circuit-withstand
- Compact system
- Non chimney effect
- Fire barrier 120' under DIN 4102-9
- Fire resistance 90' under DIN 4102-12
- Fire resistance 180' under IEC 60331
- Maintenance free
- Anti-vandal solution
- Resistance against fungi, animals, insects



Oil & gas



Water & waste water



Mining,  
minerals & metals



Healthcare



Enterprise  
data centres



Real estate  
and office  
buildings

# Canalis KR

## is part of a comprehensive high power solution

A

Canalis KR and Canalis KT from 800 A to 6300 A are the two pillars of a comprehensive solution to create reliable and efficient electrical distributions in all kind of environments.

B



Canalis KR is made of copper or aluminium conductors encapsulated in epoxy resin. This concept provides a degree of protection IP68.

Thanks to this performance Canalis KR can be used outdoor, in aggressive atmospheres or when crossing explosive environments.

Canalis KR has also good behavior in event of fire. The product is certified under IEC 60331, DIN 4102-12 for fire resistance and under DIN 4012-9 for fire barrier.

C



Canalis KT is made of copper or aluminium conductors isolated by polyester films and protected by a metallic enclosure. Canalis KT is an efficient solution for indoor applications.

Easy to connect, light and compact, Canalis KT is the solution to create distribution networks in large site or high rise buildings and links between transformers and switchboards.

For more details on Canalis KT see the dedicated catalogues on [schneider-electric.com](http://schneider-electric.com).

D



Thanks to KR KT adaptors the two offers are strongly interconnected. Both ranges including adaptors are certified under the IEC 61439-1/6 standard.



# Canalis KR and KT, two pillars of a comprehensive solution

A



## Canalis KR

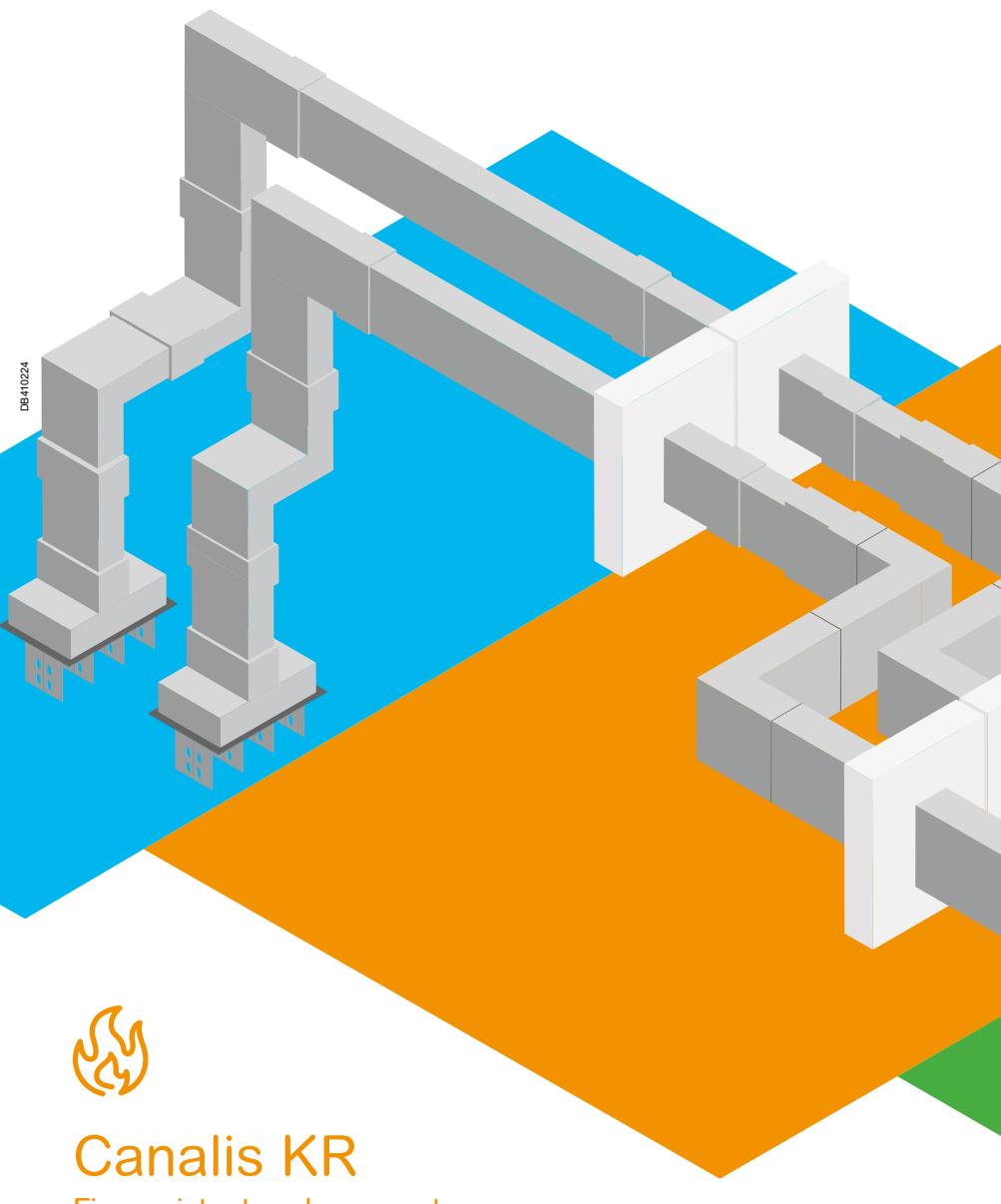
Outdoor  
IP68



B

C

D



## Canalis KR

Fire resistant and compact  
180' IEC60331  
90' DIN4102-12





# Panorama of Canalis range

A

## Low & medium Power Solutions

B



C

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

Rated service current	Permissible rated peak current	Rated insulation voltage
Inc	Ipk	Ui
<b>KBA</b>		
25 A	4.4 kA	690 V
40 A	9.6 kA	
<b>KBB</b>		
25 A	4.4 kA	690 V
40 A	9.6 kA	



Power distribution from 40 to 160 A  
IP55

Rated service current	Permissible rated peak current	Rated insulation voltage
Inc	Ipk	Ui
<b>KN (from 40 to 160 A)</b>		
40 A	6 kA	500 V
63 A	11 kA	
100 A	14 kA	
160 A	20 kA	



Horizontal and vertical distribution from 100 to 1000 A  
IP55

Rated service current	Permissible rated peak current	Rated insulation voltage
Inc	Ipk	Ui
<b>KS (from 100 to 1000 A)</b>		
Aluminium:	Copper:	
100 A	160 A	15.7 kA
160 A	250 A	22 kA
250 A	400 A	28 kA
400 A	630 A	49.2 kA
500 A	800 A	55 kA
630 A	1000 A	67.5 kA
800 A		78.7 kA
1000 A		78.7 kA

# Introduction

## Panorama of Canalis range

A

Color	Line components			Branching points		Accessories
	Length of components	Number of conductors	Branching centre to center distance		Protection type	
Pre-lacquered white (RAL9003)	2 m and 3 m	2 or 4 + PE	0.5 m, 1 m or 1.5 m	L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control	With fuses or without protection	<ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Remote control bus (DALI, DSI)</li> <li>&gt; Cable ducts</li> <li>&gt; KBL light fittings</li> </ul>
Pre-lacquered white (RAL9003)	2 m and 3 m	Single circuit 2 or 4 + PE Dual circuit 2 + 2 + PE 2 + 4 + PE 4 + 4 + PE	0.5 m or 1 m	L + N + PE or 3L + N + PE (10/16 A) pre-cabled or to be cabled, with phase selection or fixed polarity, with lighting control	With fuses or without protection	<ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Remote control bus (DALI, DSI)</li> <li>&gt; Cable ducts</li> </ul>

B

C

D

Color	Line components			Branching points		Accessories
	Length of components	Number of conductors	Branching centre to center distance		Protection type	
Pre-lacquered white (RAL9001)	2 m and 3 m	4 + PE	0.5 m, 1 m or 1.5 m	16 A to 63 A (plug-in)	Units for modular circuit breakers, fuses and sockets	<ul style="list-style-type: none"> <li>&gt; Flexible components</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Remote control bus</li> <li>&gt; Cable ducts</li> <li>&gt; Installation accessories</li> </ul>

Color	Line components			Branching points		Accessories
	Length of components	Number of conductors	Branching centre to center distance		Protection type	
Pre-lacquered white (RAL9001)	3 m, 5 m and additional or customized components	4 + PE	0.5 m or 1 m on each side	25 A to 400 A (plug-in)	Units for circuit breakers (modular, Compact NSX), fuses, sockets, Transparent Ready	<ul style="list-style-type: none"> <li>&gt; Riser ducting offer</li> <li>&gt; Fixing devices with quick adjustment</li> <li>&gt; Cable ducts</li> <li>&gt; Installation accessories</li> <li>&gt; Fire barriers</li> </ul>

# Panorama of Canalis range

## High Power Solutions

A

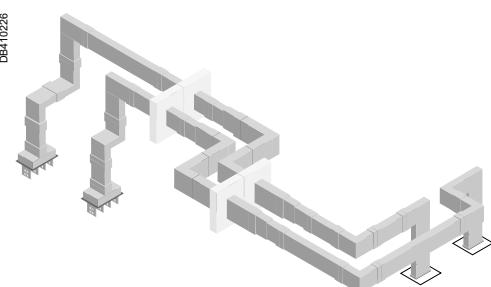


Power transmission and distribution  
from 800 to 6300 A  
IP55

Rated service current	Permissible rated peak current	Rated insulation voltage	Color
Inc	Ipk	Ui	
<b>KT *</b>			
Aluminium:	Copper:	Standard:	Optional:
800 A	-	64 kA	73 kA
1000 A	1000 A	110 kA	143 kA
1250 A	1350 A	110 kA	143 kA
1600 A	1600 A	143 kA	187 kA
2000 A	2000 A	154 kA	242 kA
2500 A	2500 A	176 kA	248 kA
3200 A	3200 A	189 kA	248 kA
4000 A	4000 A	198 kA	264 kA
5000 A	5000 A	209 kA	264 kA
-	6300 A	209 kA	264 kA

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

B



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

Rated service current	Permissible rated peak current	Rated insulation voltage	Color
Inc	Ipk	Ui	
<b>KR *</b>			
Aluminium:	Copper:	1000 V	
800 A	56 kA	-	Gray (RAL7030)
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

# Introduction

## Panorama of Canalis range

A

B

C

D

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 3L + N or 3L + PE or 3L + PEN 3L + N + PE	-	-	-	> Power supply ends > Direction change angles and T-pieces > Fixing devices > Fire resistant elements

# Canalis KR, a display of advantages

A



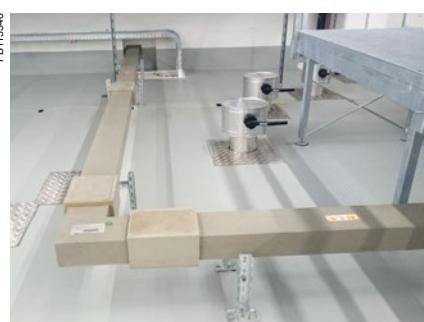
PB15547



PB15548



P1010077



PB15546

## High degree of protection against external aggressions

- The product is IP68 and can be installed outdoor or in trenches
- The busway is protected from sand and dust and can be easily cleaned with a high pressure water jet
- Its resistance to UV and to extreme temperatures allows an usage in all world's countries (IEC standard)

## Reliable in harsh environments

- Installation in explosive area Atex zone II
- Resistance to chemical atmosphere
- Resistance to corrosion

## Fire resistant to insure the operating continuity of critical equipments

- Circuits integrity preservation for 180' according to IEC 60331 and 90' according to DIN 4102-12
- The fire is contained thanks to the self-extinguishing insulation and the fire-barrier up to 120'

## Compact and performant

- High short circuit withstand
- High mechanical strength
- 25 years life time and maintenance free

# Canalis KR is adapted for all types of building



## Oil & Gas and Chemical industry

### Key points

- Outdoor run
- Atex zone 2
- Resistant against chemical aggression
- Resistant against corrosion



## Internet Data Centers

### Key points

- Operating continuity
- Maintenance free
- Network compactness and readability
- IP68



## Office and Hospital buildings

### Key points

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



## Shopping centres, airports and exhibition centres

### Key points

- Operating continuity
- Fire resistant
- Small size
- Halogen free
- Outdoor application

A

B

C

D

# Canalis KR is adapted for all types of building

A



B



C



## Harbor and Shipyard platform

### Key points

- IP68
- Resistant to salted water
- Operating continuity

## Food and beverages

### Key points

- Easy to clean
- Operating continuity
- Small size
- IP68

## Solar Farms

### Key points

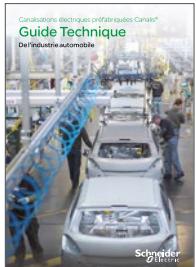
- Outdoor application
- UV resistant
- Small size

## Car industry and industrial buildings

### Key points

- Operating continuity
- Low voltage drop
- Network readability

## Application datasheets / Guide



### In cruise ships

- DESWED105014EN.

### In livestock production buildings

- DESWED105010EN.

### In logistic centers

- DESWED105011EN.

### In automobile industry

- KD0C98CTAAUEN.

### In car parks

- DESWED108011EN.

### In greenhouses

- DESWED105013EN.

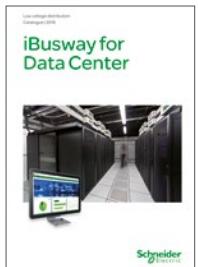
### In garages

- DESWED106004EN.

### In hypermarkets

- KD0C98CTAHYEN.

## 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.

## Technical files

The technical files have been compiled from completed contracts and provide answers to questions concerning the installation of Canalis busbar trunking in specific business sectors.



### In exhibition center

- KD0C00CTAFEEN.

### In electronics factories

- KD0C00CTAUEEN.

### In tiles factories

- DEBU005EN.



Find a large range of publications on the Schneider Electric web site: [www.se.com](http://www.se.com).

# Canalis tools and services

## Work-out your solution together

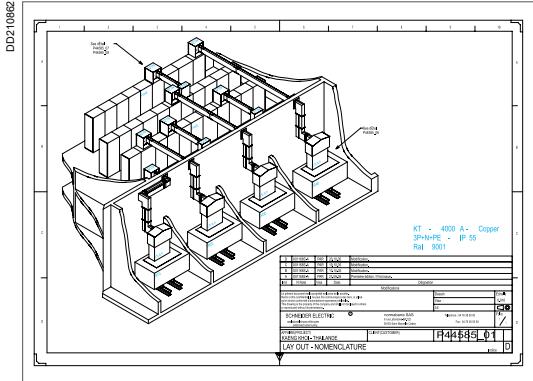
A



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

- Design of electrical distribution architectures:
  - > design of decentralised transport and distribution systems
  - > technical and financial optimisation of busbar trunking design projects
  - > transformer/switchboard link
  - > installation coordination and discrimination.

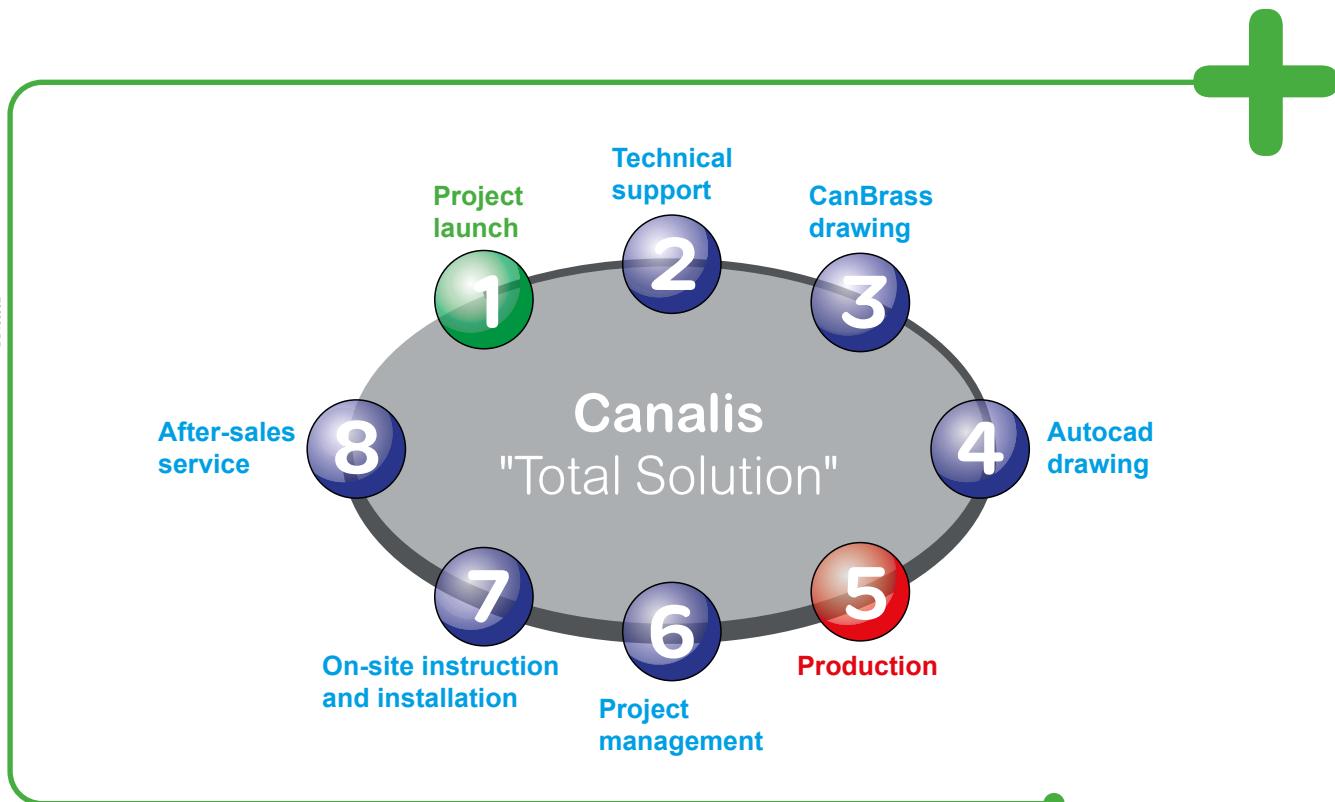
B



- 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.

C

D



# Cantools give you all help you need

The **CanBrass** software, edited by Schneider Electric, was developed to help you design and cost Canalis busbar trunking runs. It allows you to quickly design the best layout for your project. It allows:

- The material needed to be easily chosen.
  - A list of catalogue numbers and their exact quantities to be defined.
  - A comprehensive quote that includes material and labour.
  - 3D Graphical costing + creation of a report.
  - Transfer to Autocad via Cancad companion.

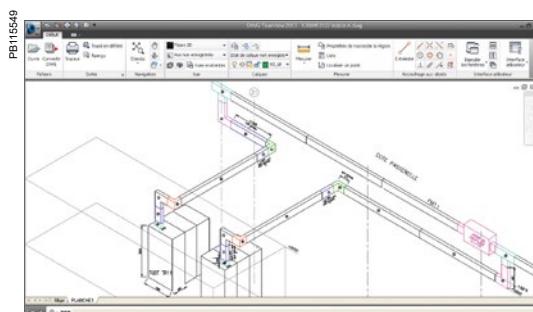
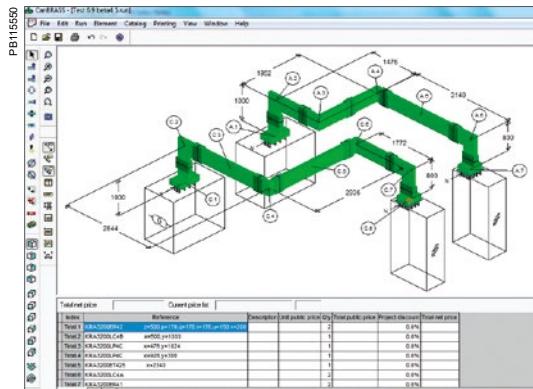
CanBrass

## Graphical costing

Simply create a 3D drawing of the busbar trunking using appropriate dialogue boxes.

Enter the following

- Rating.
  - Polarity.
  - Connection types



Project	/ Folder N°6 Customer:				
Total Net amount of the project (VAT not included): 0					
Current price list:					
<hr/>					
A - HTA05 - Tri + N + PE and/or Tri + PEN					
Total Net amount of the rms = 0,00					
<hr/>					
Qty / Description	Elements length	Reference	Unit public price	Project discount	Total net price
1	m=1620 m=600 mm=260	HTA05/L41	0,00%		
1	m=240	HTA05/L42	0,00%		
1	m=1620 m=600 mm=260	HTA05/L43	0,00%		
1	m=1920	HTA05/E42/B	0,00%		
1	m=400 m=416 c=400	HTA05/E42/B2	0,00%		
1	m=1232	HTA05/C40	0,00%		
1	m=1232	HTA05/C40B	0,00%		
1	m=513	HTA05/T41A	0,00%		
1	m=1232	HTA05/T41B	0,00%		
1	m=360	HTK000/R4	0,00%		
12	m=1232	HTK000/R4A	0,00%		
1	m=1232	HTK000/R4B	0,00%		
1	m=1232	HTK000/A4	0,00%		
2	m=1232	HTK000/A41	0,00%		

## Definition of catalogue numbers

The software gives an optimum breakdown of the project and provides a bill of materials:

- Catalogue number.
  - Quantity.
  - Price.

The software can also generate 2D or 3D drawings with dimensions.

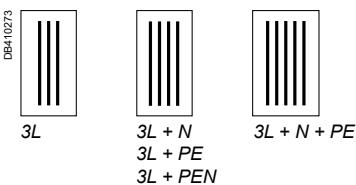
## Quote

The CanBrass software can generate a comprehensive customised quote:

- Quantity.
  - Catalogue number.
  - Unit price.
  - Total net price.
  - Installation time.

# General description

A



Canalis KR busbar trunking is intended for high power transport in harsh environments and critical buildings.

The system is made of prefabricated sections adapted to all run configurations. Canalis KR is compliant with the standard IEC 61439 part 1 & 6.

9 ratings are available, from 800 to 5000 A for aluminium and from 1000 to 6300 A for copper.

3 to 5 conductors with identical cross-sections address the following configurations: 3L, 3L+PE, 3L+N, 3L+PEN, 3L+N+PE.

Conductors are insulated using cast resin epoxy - Class B 130°C - RAL 7030.

- Degree of protection is IP68
- Insulation voltage: 1000 Volts

Canalis KR can be installed edgewise, flat or vertically without derating. Its design allows the busbar trunking to be installed through a floor slab or fire barrier wall.

In event of fire the circuits' integrity is insured (see the dedicated chapter).

B



## Epoxy resin

The insulation is made of epoxy and a high content of mineral fillers.

This insulation system has a rectangular and compact cross section that avoids any risk of chimney effect. The busbar can be installed horizontal or vertical without reducing the nominal current of a system.

The resin is halogen-free and self-extinguishing, no toxic gases are released. On demand special colors can be provided.

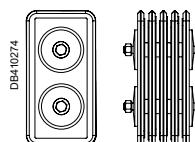
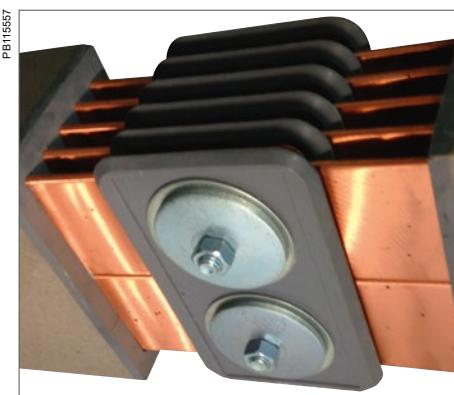
C

## Conductors

Conductors have a rectangular section with full rounded edges and are available in two versions:

- **KRC:** Electrolytic-Copper Cu ETP 99.9% - bare copper. The not encapsulated connection pads of the made to measure end feed units are tin plated - 8 microns.
- **KRA:** Aluminium EN AW 6101b - tin plated along the entire surface - 6 to 8 microns.

## Joint



The electrical and mechanical connection between units is made with a special mono-bloc system.

The junction bloc is composed of insulation plates made of BMC thermoset. Fish plates are made of bare copper for KRC and of tin plated aluminium for KRA.

The junction bloc is supported by large pressure plates.

This ensures a high standard of pressure on the contacts surfaces.

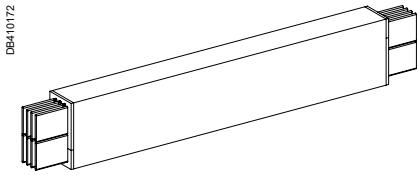
It provides simultaneous continuity between all conductors.

It is tightened using bolt(s) (1 to 4 depending on the rating).

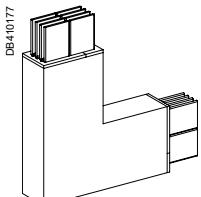
- **Aluminium:** 800 A 54 N.m and 84 N.m for the others.
- **Copper:** 1000 A 54 N.m and 84 N.m for the others.

**Joint blocks are not supplied with run sections (or any other section) it must be ordered separately.**

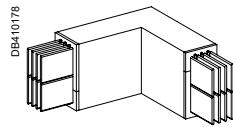
D



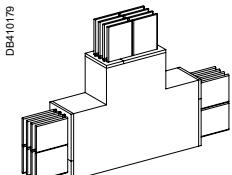
ET - Straight feeder lengths



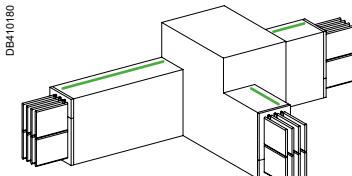
LC - Edgewise elbow



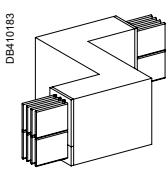
LP - Flat elbow



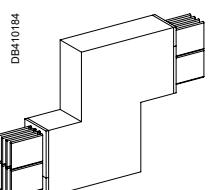
TC - Edgewise tee



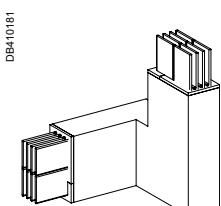
TD - Flatwise tee



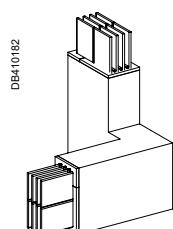
ZP - Flat zed unit



ZC - Edgewise zed unit



CP•1 - Edgewise and flat zed



CP•2 - Edgewise and flat zed

## Straight sections

- Transport the current without tap-off points.
- Available made to measure from 0.30 to 3 meters.

A

## Simple change of direction

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

- **Type LP**, flat elbow available in fixed or made-to-measure lengths.
- **Type LC**, edgewise elbow available in fixed or made-to-measure lengths.
- **Type TC and TD**, to feed runs perpendicular to the main run.

B

## Change of direction

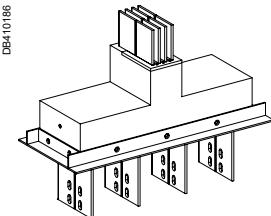
3-branch made-to-measure:

- 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.

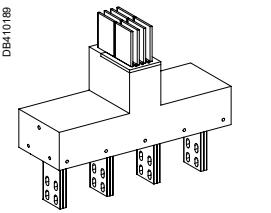
C

D

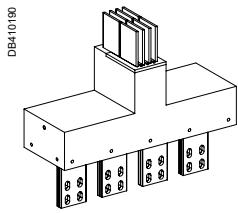
# Functional overview



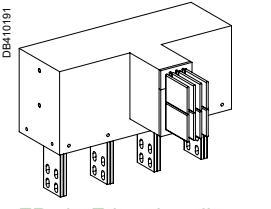
ER•1 - Straight feed unit



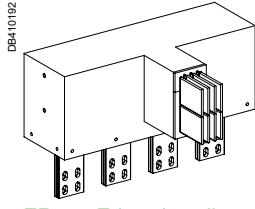
ER•2 - Straight feed unit



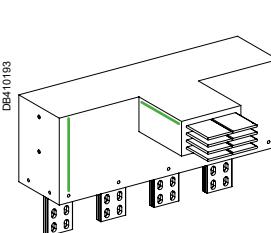
ER•3 - Straight feed unit



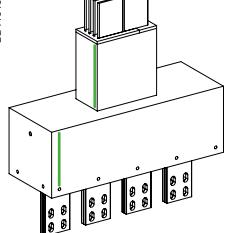
ER•4 - Edgewise elbow feed unit



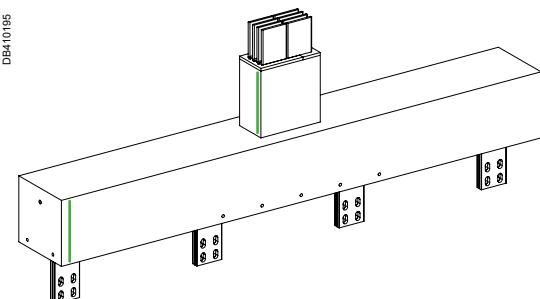
ER•5 - Edgewise elbow feed unit



ER•6 - Flat elbow feed unit



ER•7 - Straight feed unit



ER•8 - Straight feed unit for dry transformer

## Connection to switchboards and transformers

### Feed units - Type ER

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

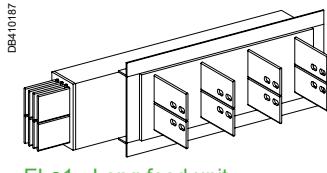
Vertical or horizontal incoming.

- ER•1 is delivered with aluminium brackets to be fitted directly to the roof of the switchboard.
- ER•2 to ER•8 are delivered with tin plated terminal pads.

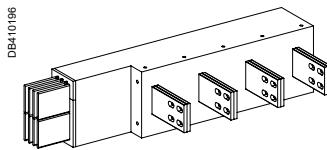
### Connection:

- Either directly to the busbar;
- or by flexible bars and connection plates;
- or by braids;
- or by cables.

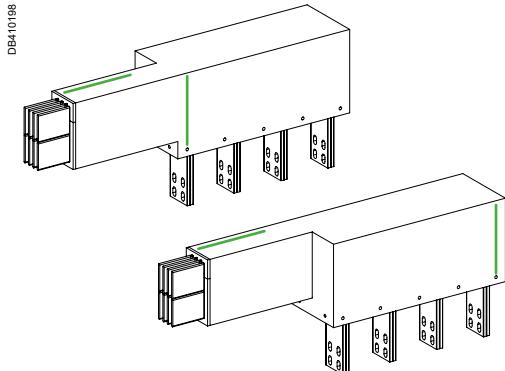




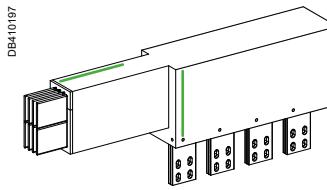
EL•1 - Long feed unit



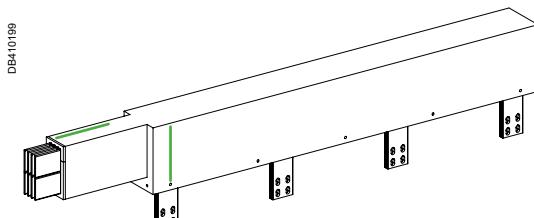
EL•2 - Long feed unit



EL•3 - Long feed unit



EL•4 - Long feed unit



EL•5 - Long feed unit for dry transformer

## Connection to switchboards and transformers

### Feed units - Type EL

They allow optimum connection to the busbar trunking.

- EL•1 is delivered with aluminium brackets to be fitted directly to the roof of the switchboard.

- EL•2 to EL•5 are delivered with tin plated terminal pads.

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

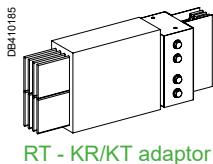
A

B

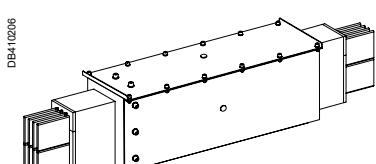
C

D

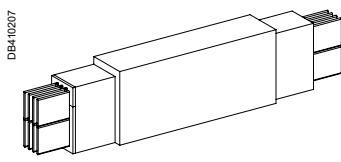
# Functional overview



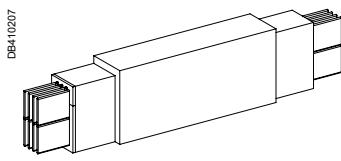
RT - KR/KT adaptor



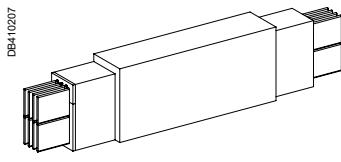
DB - Expansion unit



TN - Neutral crossover



TP - Phase crossover



TO - Phases balance

## KR and KT connection

This adaptor interconnects cast resin busbar (KR) to metallic (KT). The adaptor has been tested and certified in compliance with the IEC 61349-6 standard. Connection of the adaptor to KR or KT are managed.

### NOTICE

KT junction blocks are not provided with this reference and should be ordered separately with the KT products.

## Other run sections

### Expansion section

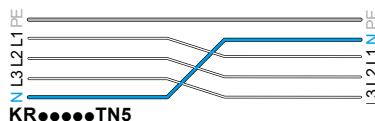
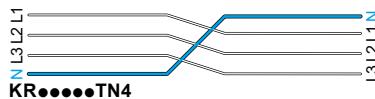
It controls and absorbs the expansion of Canalis runs and must be used on runs over 30 meters for Aluminium and 40 meters for copper and each time the busbar trunking passes through a building.

Refer to the installation guide. Available in a 1 metre length, it can be fitted vertically or horizontally.

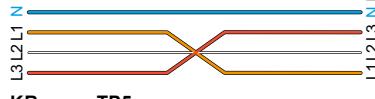
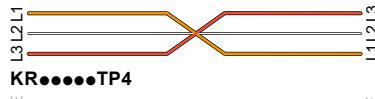
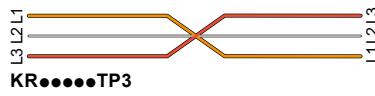
### Transposition Section

Used when the phase order of the switchboard is different to that of the transformer. Available in a 1 meter length and is the same physical size as a transport section.

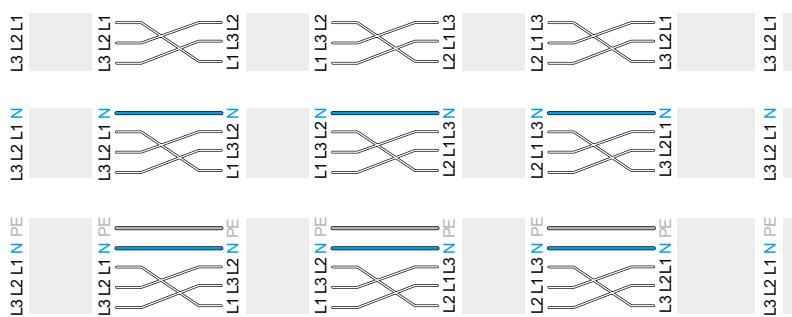
#### ■ The TN version transposes the neutral

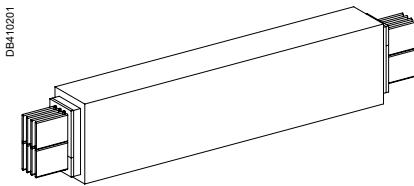


#### ■ The TP type transposes the phases

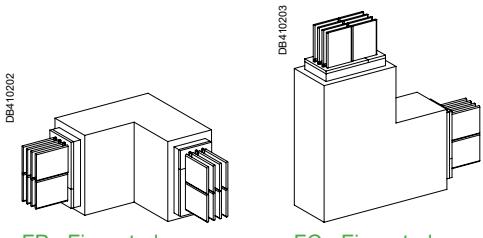


#### ■ The TO version balances the phases in the event of long straight runs (from 90 m). In this case 3 units (TO) have to be installed inevitably under the following repartition. The CanBrass split has to be blocked if only 1 or 2 units are installed.



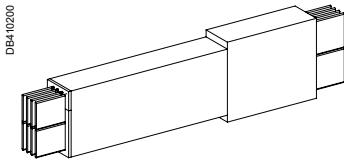


FT - Fire rated straight length

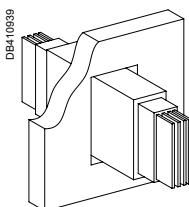


FP - Fire rated flat elbow

FC - Fire rated edge-wise elbow



RU - Reduction unit



CF - Fire barrier s120

## Fire resistant elements

### Fire resistant elements

The cast resin run can be equipped with an insulating sheath that insure the integrity of circuit in event of fire.

The fire resistance can be up to 90 minutes according to the DIN 4102-12.

This standard solution is available for straight length and elbows only (FT, FC, FP). Canalis KR catalogue numbers system has been created to facilitate the use of fire resistant units.

The conductors of these units are oversized in order to take into account the lower thermal exchange due to insulating sheath. Coefficient = 0,8.

The result of this derating is that the dimensions of the product under insulation sheath is exactly the rating above the concern rating.

- To connect fire resistant products to standard ones, reduction units (RU) have to be used.
- The nominal rating of this unit corresponds to the maximum capacity of the small side.
- The large side has the dimensions of the upper rating.

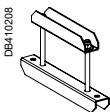
*NOTE: If this unit is not to connect fire resistant products, it must be used in conjunction with appropriate protection.*

### Fire barrier kit

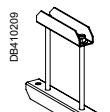
If the busbar trunking passes through a wall or a shaft, fire barrier kit can be required. The regular busway is suitable for 60', in case of demand of above this level or up to 120' a fire kit has to be installed through the wall or floor. The reference covered the two sides and wall. Gap between fire kit and concrete will be filled with the appropriate product (not supplied by Schneider Electric).

# Functional overview

A

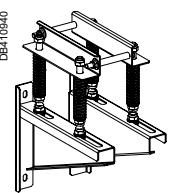


ZA1 - Horizontal flat support

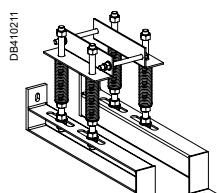


ZA2 - Horizontal edgewise support

B

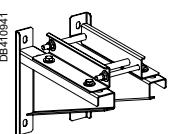


ZA5 - Vertical wall spring support

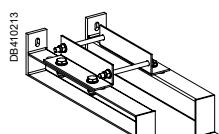


ZA6 - Vertical floor spring support

C

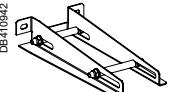


ZA7 - Vertical wall fix point support



ZA8 - Vertical floor fix point support

D



ZA9 - Vertical wall guiding support

## Supports

### Horizontal

Type ZA1 and ZA2, to support respectively edgewise or flatwise busbar trunking only, consist of a steel angle bracket.

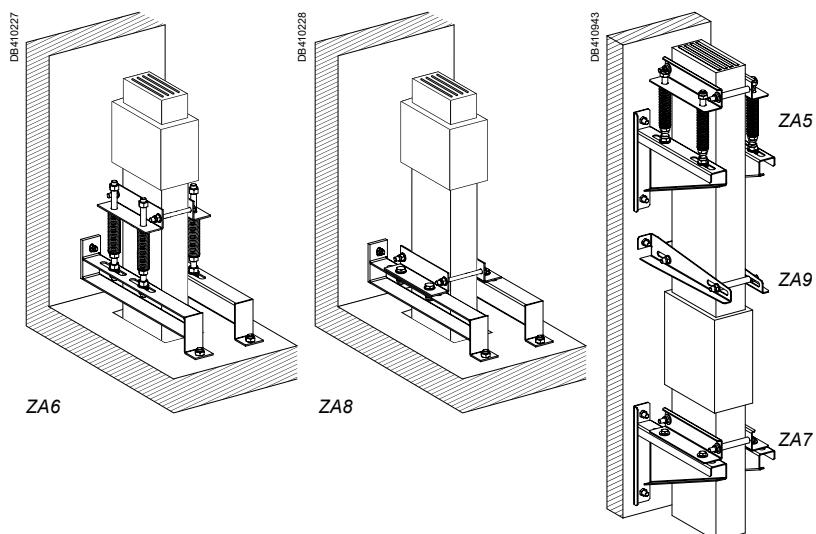
The maximum distance between supports is 1.5 meters.

### Vertical

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

This type of fixing support has the following advantages:

- assembly:
- to a wall,
- to a wall bracket,
- to the floor.
- height and depth adjustment;
- spring adjustment to ensure distribution of the load at each floor;
- avoids the transmission of building forces to the busbar trunking (expansion and vibration).



# Catalogue numbers and dimensions

Catalogue-number coding	B-28
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Junction of elements	B-30
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Multiple changes of direction	B-34
Additional run components	B-36
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How to connect Canalis KR?	B-60
Connection accessories	B-67
Size and number of connection parts	B-69

B

## Catalogue-number coding

## Catalogue-number composition

■ One letter designating the material.

Type	Code
Aluminium	A
Non conducting	B
Copper	C

■ Two letters identifying the type of component.

Type	Code	Type	Code
Straight feeder length	ET	KR/KT adaptor	RT
Flat elbow	LP	Reduction unit	RU
Edgewise elbow	LC	Fire rated straight length	FT
Flat zed unit	ZP	Fire rated flat elbow	FP
Edgewise zed unit	ZC	Fire rated edgewise elbow	FC
Edgewise and flat zed	CP	Casting mould	EM
Edgewise tee	TC	Fire rated casting mould	FM
Flatwise tee	TD	Junction block	YA
Straight feed unit	ER	Mineral filler	MF
Long feed unit	EL	Resin and hardener	RH
Expansion unit	DB	Neutral crossover	DA
Phases crossover	TP	Demoulding agent	DA
Neutral crossover	TN	Support	ZA
Phases balance	TO	End cover	FA
Fire barrier S120	CF		

K R ● ● ● ● ● ● ● ●

■ Four digits indicating the rating of the trunking.

**Important:** for an 800 A rating, indicate "KRA0800".

■ One digit indicating the number of conductors.

Nb of conductors	Polarity
3	3L
4	3L + N    3L + PE    3L + PEN
5	3L + N + PE

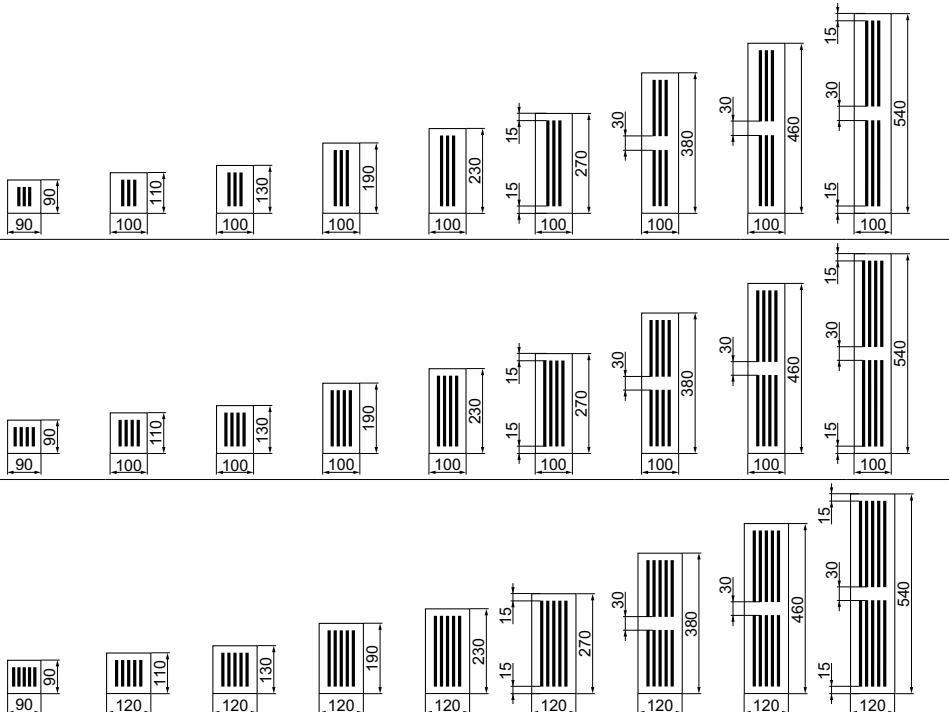
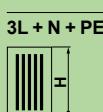
■ Variable number of alphanumeric characters indicating characteristics specific to the component.

See the section dealing with the given component.

## Trunking cross section

Rating (A)	Aluminium	800	1000	1250	1600	2000	2500	3200	4000	5000
Bar cross-section (mm)	60 x 6	80 x 6	100 x 6	160 x 6	200 x 6	240 x 6	2 x (160 x 6)	2 x (200 x 6)	2 x (240 x 6)	
Weight 3L (kg/m)	21	26	30	43	52	61	85	102	120	
Weight 3L + N (kg/m)	22	29	34	48	58	68	95	115	125	
Weight 3L + N + PE (kg/m)	22	35	40	58	69	81	113	137	161	
Rating (A)	Copper	1000	1350	1600	2000	2500	3200	4000	5000	6300
Bar cross-section (mm)	60 x 6	80 x 6	100 x 6	160 x 6	200 x 6	240 x 6	2 x (160 x 6)	2 x (200 x 6)	2 x (240 x 6)	
Weight 3L (kg/m)	30	36	43	64	77	92	126	155	182	
Weight 3L + N (kg/m)	31	41	48	72	87	103	142	174	205	
Weight 3L + N + PE (kg/m)	34	49	59	87	105	125	172	211	249	

Dimensions (mm)



### Ordering

Complete the catalogue number by replacing the first "●" by the material type and the next "●●●" by the rating.

**Important:**

- for the 800 A rating, add a "0" in the catalogue number: **KRA0800**
- add the dimensions of the selected component as a technical comment.

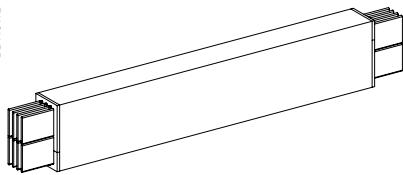
**Example:** the catalogue number of an 800 A feeder length, 3L + N + PE, 1435 mm long, is:

**KRA0800ET515, X = 1435**

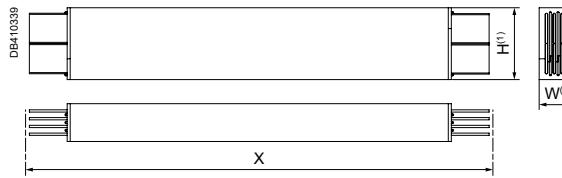


### ET - Straight feeder lengths

DE410172



Type	Length "X" (mm)	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	300 to 1000	KR●●●●●ET310	KR●●●●●ET410	KR●●●●●ET510	
	1001 to 1500	KR●●●●●ET315	KR●●●●●ET415	KR●●●●●ET515	
	1501 to 2000	KR●●●●●ET320	KR●●●●●ET420	KR●●●●●ET520	
	2001 to 2500	KR●●●●●ET325	KR●●●●●ET425	KR●●●●●ET525	
	2501 to 3000	KR●●●●●ET330	KR●●●●●ET430	KR●●●●●ET530	



(1) Dimensions see table page 28

A

B

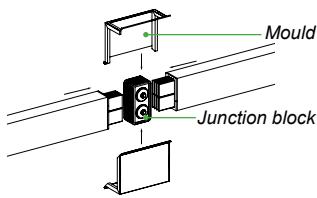
C

D

# Catalogue numbers and dimensions

## Junction of elements

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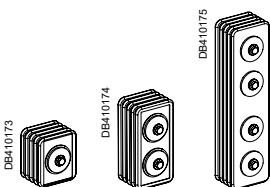


The junction between two sections is made using a joint block and by casting a resin mix in a mould prepared with a demoulding agent.

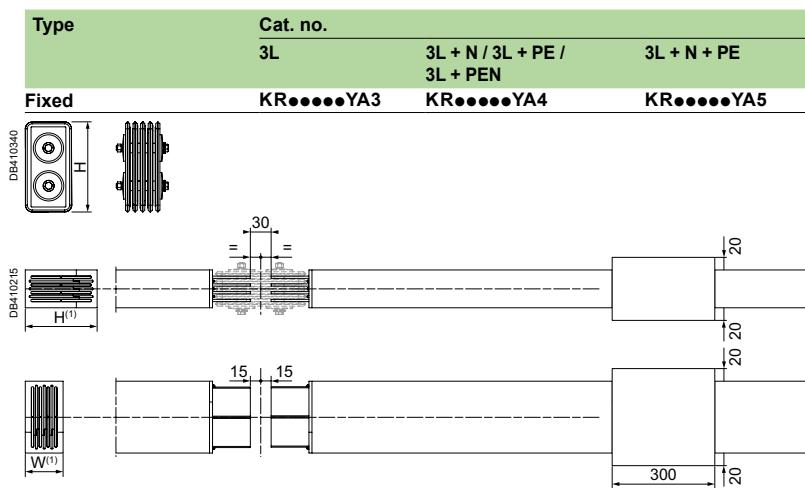
A

### YA - Junction block

Not included with run sections.



Rating (A)		Nb of bolts	Torque (N.m)
KRA	KRC		
0800	1000	1	54
1000	1350	1	84
1250	1600	1	84
1600	2000	2	84
2000	2500	2	84
2500	3200	2	84
3200	4000	4	84
4000	5000	4	84
5000	6300	4	84



(1) Dimensions see table page 28

### RH - Resin and hardener



Kit of resin and hardener

Type	Weight (kg)	Cat. no.
<b>Kit including:</b>		
- 1 resin box	1.9	
- 1 hardener box	0.6	KRB0000RH1

### MF - Mineral filler



Bucket of sand

Type	Weight (kg)	Cat. no.
1 bucket	12	KRB0000MF1

The correct proportion of products to mix together is : 1 box of resin + 1 box of hardener + 1 bucket of mineral filler or the equivalent ratio if needed. The quantity of resin mix needed for one junction depends of the size of the busway (see table).

#### Example:

Quantity to order for 1 line of KRC1600 3L+N with 9 junctions and 1 line of KRC2500 3L+N with 20 junctions

#### Resin + hardener

$0.8 \times 9 + 1.2 \times 20 = 31.2 \rightarrow 32$  references KRB0000RH1

#### Mineral filler

$0.8 \times 9 + 1.2 \times 20 = 31.2 \rightarrow 32$  references KRB0000MF1

The quantity proposed in the table takes into account the fact that all junctions will not be molded during the same batch and that scrap can be created. CanBrass software makes the calculation in compliance with the example above.

**Fire resistant units (FT, FP, FC) have the size of the just above equivalent rating.**

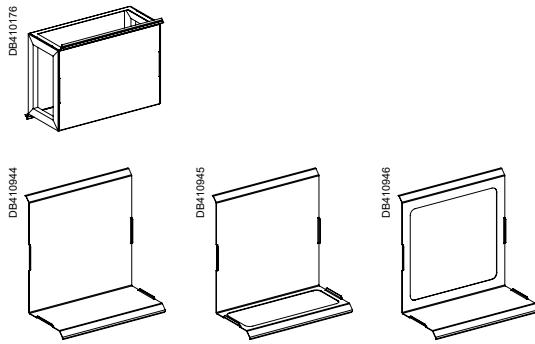
#### Quantity of unit per 1 junction

Rating (A)		Nb of cond.	KRB0000RH1	KRB0000MF1
KRA	KRC			
0800	1000	3 or 4	0.70	0.70
		5	0.70	0.70
1000	1350	3 or 4	0.80	0.80
		5	0.90	0.90
1250	1600	3 or 4	0.80	0.80
		5	1.00	1.00
1600	2000	3 or 4	1.00	1.00
		5	1.20	1.20
2000	2500	3 or 4	1.20	1.20
		5	1.40	1.40
2500	3200	3 or 4	1.30	1.30
		5	1.50	1.50
3200	4000	3 or 4	2.00	2.00
		5	2.20	2.20
4000	5000	3 or 4	2.10	2.10
		5	2.30	2.30
5000	6300	3 or 4	2.30	2.30
		5	2.70	2.70

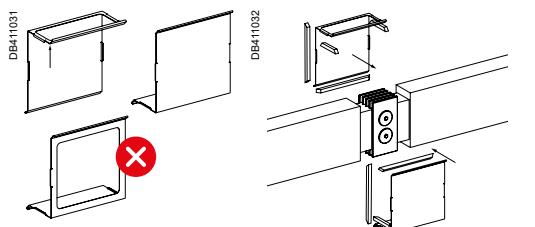
# Catalogue numbers and dimensions

## Junction of elements

### EM - Casting mould

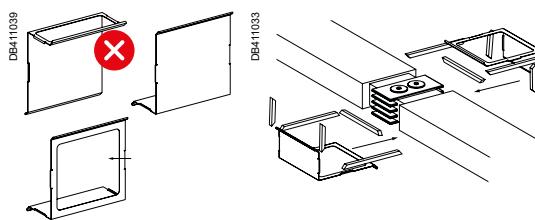
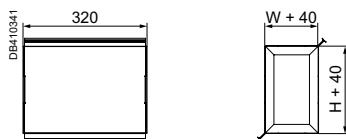


Horizontal installation KRB~~0000~~EM~~00~~ = Qty 1 unit



Type	Rating of the trunking (A)		Nb of cond.	Cat. no.
Casting mould	KRA	KRC		
	0800	1000	3, 4 or 5	KRB0090EM09
	1000	1350	3 or 4	KRB0110EM10
			5	KRB0110EM12
	1250	1600	3 or 4	KRB0130EM10
			5	KRB0130EM12
	1600	2000	3 or 4	KRB0190EM10
			5	KRB0190EM12
	2000	2500	3 or 4	KRB0230EM10
			5	KRB0230EM12
	2500	3200	3 or 4	KRB0270EM10
			5	KRB0270EM12
	3200	4000	3 or 4	KRB0380EM10
			5	KRB0380EM12
	4000	5000	3 or 4	KRB0460EM10
			5	KRB0460EM12
	5000	6300	3 or 4	KRB0540EM10
			5	KRB0540EM12

The reference includes mold parts for lines installed edgewise or flat.



### Quantity table

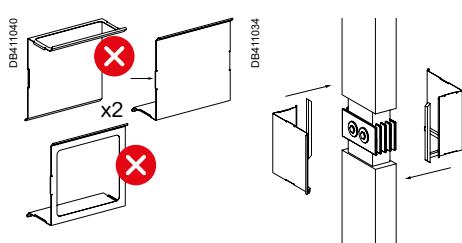
Rating (A)	Quantity	No. of junctions
KRA	KRC	
0800 to 5000	1000 to 6300	1 mould 4(1)

(1) The minimum quantity of moulds per line is 4, in order to be able to mold all junctions of short runs in the same time

NOTE: Each casting mould contains 3 parts as shown in picture, suitable for horizontal flatwise and edgewise junction molding.

For vertical risers installation 2 casting moulds are required for one junction to mould.

Vertical installation KRB~~0000~~EM~~00~~ = Qty 2 unit



### DA - Demoulding agent



Type	Weight (kg)	Cat. no.
1 demoulding agent box	0.5	KRB0000DA1

Demoulding agent

### Quantity table

Rating (A)	Quantity	No. of connections
KRA	KRC	
0800 to 1250	1000 to 1600	1 box 1 to 20
1600 to 2500	2000 to 3200	1 box 1 to 15
3200 to 5000	4000 to 6300	1 box 1 to 10

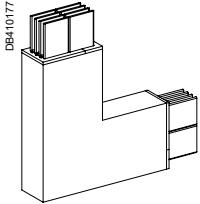
# Catalogue numbers and dimensions

## Changes of direction

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A

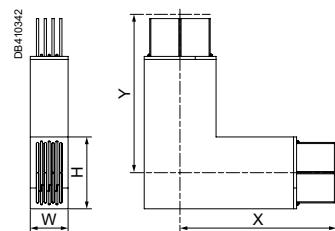
### LC - Edgewise elbow



DB410177

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••LC3A	KR•••••LC4A	KR•••••LC5A
Made to measure	Short branche KR•••••LC3B	KR•••••LC4B	KR•••••LC5B
	Long branche KR•••••LC3C	KR•••••LC4C	KR•••••LC5C

B

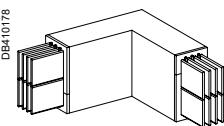


Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		LC•A		LC•B			LC•C		
KRA	KRC	X	Y	X	Y	(X+Y) max	X	Y	(X+Y) max
0800	1000	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
1000	1350	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
1250	1600	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
1600	2000	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
2000	2500	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
2500	3200	350	350	350 to 650	350 to 650	1000	350 to 1150	350 to 1150	1500
3200	4000	500	500	500 to 1000	500 to 1000	1500	-	-	-
4000	5000	500	500	500 to 1000	500 to 1000	1500	-	-	-
5000	6300	500	500	500 to 1000	500 to 1000	1500	-	-	-

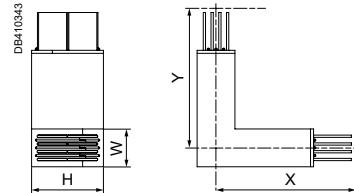
C

### LP - Flat elbow



DB410178

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••LP3A	KR•••••LP4A	KR•••••LP5A
Made to measure	Short branche KR•••••LP3B	KR•••••LP4B	KR•••••LP5B
	Long branche KR•••••LP3C	KR•••••LP4C	KR•••••LP5C



Dimensions (For H and W, see the "Trunking cross section" table - page 28)

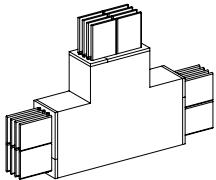
Rating (A)		LP•A		LP•B			LP•C		
KRA	KRC	X	Y	X	Y	(X+Y) max	X	Y	(X+Y) max
0800	1000	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
1000	1350	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
1250	1600	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
1600	2000	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
2000	2500	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
2500	3200	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
3200	4000	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
4000	5000	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500
5000	6300	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500

# Catalogue numbers and dimensions

## Changes of direction

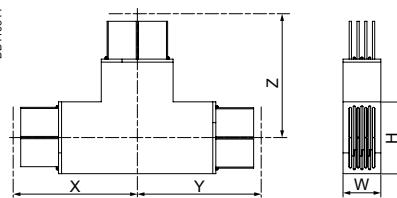
### TC - Edgewise tee

DB410179



Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••TC3A	KR•••••TC4A	KR•••••TC5A
Made to measure	KR•••••TC3B	KR•••••TC4B	KR•••••TC5B

DB410344



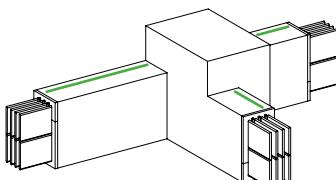
Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		TC•A			TC•B			
KRA	KRC	X	Y	Z	X	Y	Z	(X+Y+Z) max
0800	1000	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1000	1350	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1250	1600	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1600	2000	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
2000	2500	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
2500	3200	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
3200	4000	500	500	500	500 to 1000	500 to 1000	500 to 700	2000
4000	5000	500	500	500	500 to 1000	500 to 1000	500 to 700	2000
5000	6300	500	500	500	500 to 1000	500 to 1000	500 to 700	2000

A

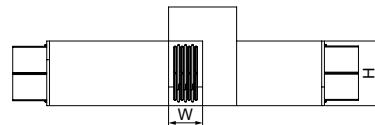
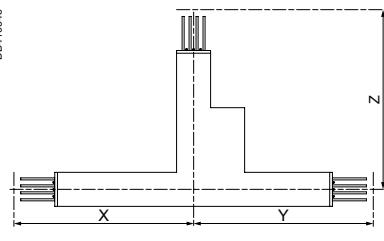
### TD - Flatwise tee

DB410180



Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••TD3A	KR•••••TD4A	KR•••••TD5A
Made to measure	KR•••••TD3B	KR•••••TD4B	KR•••••TD5B

DB410345



Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		TD•A			TD•B			
KRA	KRC	X	Y	Z	X	Y	Z	(X+Y+Z) max
0800	1000	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1000	1350	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1250	1600	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
1600	2000	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
2000	2500	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
2500	3200	350	350	350	350 to 1150	350 to 1150	350 to 500	2000
3200	4000	500	500	500	500 to 1000	500 to 1000	500 to 700	2000
4000	5000	500	500	500	500 to 1000	500 to 1000	500 to 700	2000
5000	6300	500	500	500	500 to 1000	500 to 1000	500 to 700	2000

D

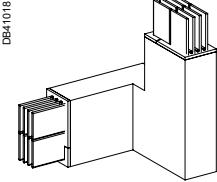
# Catalogue numbers and dimensions

## Multiple changes of direction

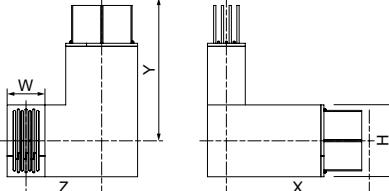
www.se.com

A

### CP•1 - Edgewise and flat zed



DB410181

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••CP31	KR•••••CP41	KR•••••CP51
DB410346			
			

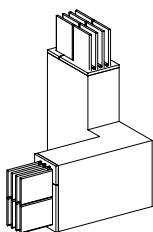
B

Dimensions (For H and W, see the "Trunking cross section" table - page 28)

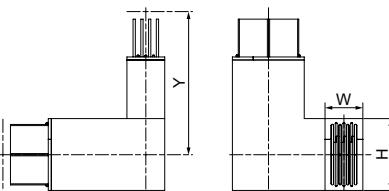
Rating (A)		CP•1				
KRA	KRC	X	Y	Z	(X+Y+Z) max	
				3 or 4 cond.	5 cond.	
0800	1000	300 to 700	350 to 700	90 to 700	90 to 700	1400
1000	1350	300 to 700	350 to 700	105 to 700	115 to 700	1400
1250	1600	300 to 700	350 to 700	115 to 700	125 to 700	1400
1600	2000	300 to 700	350 to 700	145 to 700	155 to 700	1400
2000	2500	300 to 700	350 to 700	165 to 700	175 to 700	1400
2500	3200	300 to 700	350 to 700	185 to 700	195 to 700	1400
3200	4000	300 to 700	500 to 1000	240 to 1000	250 to 1000	2000
4000	5000	300 to 700	500 to 1000	280 to 1000	290 to 1000	2000
5000	6300	300 to 700	500 to 1000	320 to 1000	330 to 1000	2000

C

### CP•2 - Edgewise and flat zed



DB410182

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••CP32	KR•••••CP42	KR•••••CP52
DB410347			
			

D

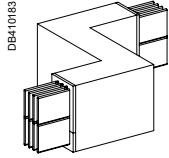
Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		CP•2				
KRA	KRC	X	Y	Z	(X+Y+Z) max	
				3 or 4 cond.	5 cond.	
0800	1000	300 to 700	350 to 700	90 to 700	90 to 700	1400
1000	1350	300 to 700	350 to 700	105 to 700	115 to 700	1400
1250	1600	300 to 700	350 to 700	115 to 700	125 to 700	1400
1600	2000	300 to 700	350 to 700	145 to 700	155 to 700	1400
2000	2500	300 to 700	350 to 700	165 to 700	175 to 700	1400
2500	3200	300 to 700	350 to 700	185 to 700	195 to 700	1400
3200	4000	300 to 700	500 to 1000	240 to 1000	250 to 1000	2000
4000	5000	300 to 700	500 to 1000	280 to 1000	290 to 1000	2000
5000	6300	300 to 700	500 to 1000	320 to 1000	330 to 1000	2000

# Catalogue numbers and dimensions

## Multiple changes of direction

### ZP - Flat zed unit



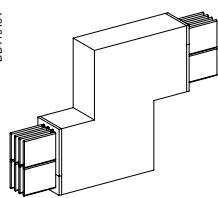
DB410183

Type	Cat. no.		
3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE	
Made to measure	KR•••••ZP3	KR•••••ZP4	KR•••••ZP5
DB410348			

Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		ZP•			
KRA	KRC	X	Y	Z	(X+Y+Z) max
0800	1000	300 to 700	300 to 700	1 to 700	1200
1000	1350	300 to 700	300 to 700	1 to 700	1200
1250	1600	300 to 700	300 to 700	1 to 700	1200
1600	2000	300 to 700	300 to 700	1 to 700	1200
2000	2500	300 to 700	300 to 700	1 to 700	1200
2500	3200	300 to 700	300 to 700	1 to 700	1200
3200	4000	300 to 700	300 to 700	1 to 700	1200
4000	5000	300 to 700	300 to 700	1 to 700	1200
5000	6300	300 to 700	300 to 700	1 to 700	1200

### ZC - Edgewise zed unit



DB410184

Type	Cat. no.		
3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE	
Made to measure	KR•••••ZC3	KR•••••ZC4	KR•••••ZC5
DB410349			

Dimensions (For H and W, see the "Trunking cross section" table - page 28)

Rating (A)		ZC•			
KRA	KRC	X	Y	Z	(X+Y+Z) max
0800	1000	350 to 700	350 to 700	10 to 700	1400
1000	1350	350 to 700	350 to 700	10 to 700	1400
1250	1600	350 to 700	350 to 700	10 to 700	1400
1600	2000	350 to 700	350 to 700	10 to 700	1400
2000	2500	350 to 700	350 to 700	10 to 700	1400
2500	3200	350 to 700	350 to 700	10 to 700	1400
3200	4000	500 to 700	500 to 700	10 to 1000	2000
4000	5000	500 to 700	500 to 700	10 to 1000	2000
5000	6300	500 to 700	500 to 700	10 to 1000	2000

A

B

C

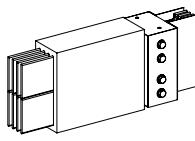
D

# Catalogue numbers and dimensions

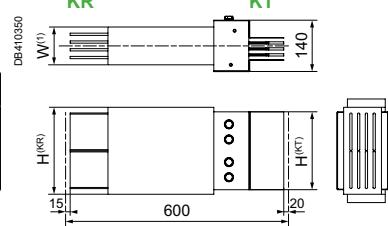
## Additional run components

www.se.com

RT - KR/KT adaptor IP55 (indoor only)				
A	Type	Length "X" (mm)	Cat. no.	
	Fixed	600	KR•••••RT33	KR•••••RT43 KR•••••RT44
		-		KR•••••RT54 KR•••••RT55



KR•••••RT••



(1) Dimensions see table page 28

B

NOTICE	
KT junction blocks are not provided with this reference and should be ordered separately with the KT products.	

**!** The adaptor is IP55 and must be only installed indoor

KRA		KTA	
Rating (A)	H(KR) (mm)	Rating (A)	H(KT) (mm)
800	90	800	74
1000	110	1000	104
1250	130	1250	124
1600	190	1600	164
2000	230	2000	204
2500	270	2500	244
3200	380	3200	324
4000	460	4000	404

KRC		KTC	
Rating (A)	H(KR) (mm)	Rating (A)	H(KT) (mm)
1000	90	1000	74
1350	110	1350	104
1600	130	1600	124
2000	190	2000	164
2500	230	2500	204
3200	270	3200	244
4000	380	4000	324
5000	460	5000	404

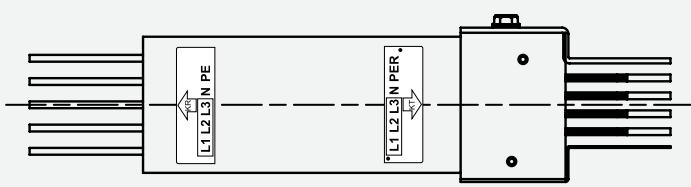
Canalis KR and Canalis KT have different concepts regarding the PE conductor. For this reason the selection of the correct reference has to be done carefully.

Canalis KR			Canalis KT		
Cond. config.	Cross sections	Nb of cond.	Nb of cond.	Cross sections	Cond. config.
3L	No PE	3	3	PE = casing	3L + PE
3L + PE	PE = 100%L	4	3	PE = casing	3L + PE
3L + N / 3L + PEN	N = 100%L PEN = 100%L	4	4	N = 100%L PE = casing	3L + N + PE / 3L + PEN
3L + N + PE	N = 100% PE = 100%L	5	4	N = 100%L PE = casing	3L + N + PE
3L + N + PE	N = 100%L PE = 100%	5	5	N = 100%L PER = 50%L + casing	3L + N + PER

Exemple of the labeling system

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

D841120



L1 L2 L3 N PE

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

L1 L2 L3 N PE

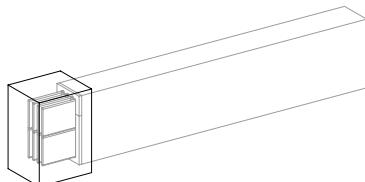
L1 L2 L3

# Catalogue numbers and dimensions

## Additional run components

### FA - End cover

DB410225



Type	Rating of the trunking (A)		Nb of cond.	Cat. no.
	KRA	KRC		
End cover	0800	1000	3, 4 or 5	KRB0090FA09
	1000	1350	3 or 4	KRB0110FA10
		5		KRB0110FA12
	1250	1600	3 or 4	KRB0130FA10
		5		KRB0130FA12
	1600	2000	3 or 4	KRB0190FA10
		5		KRB0190FA12
	2000	2500	3 or 4	KRB0230FA10
		5		KRB0230FA12
	2500	3200	3 or 4	KRB0270FA10
		5		KRB0270FA12
	3200	4000	3 or 4	KRB0380FA10
		5		KRB0380FA12
	4000	5000	3 or 4	KRB0460FA10
		5		KRB0460FA12
	5000	6300	3 or 4	KRB0540FA10
		5		KRB0540FA12

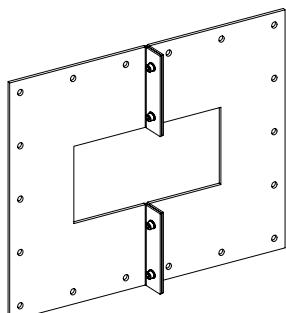


(1) Dimensions see table page 28

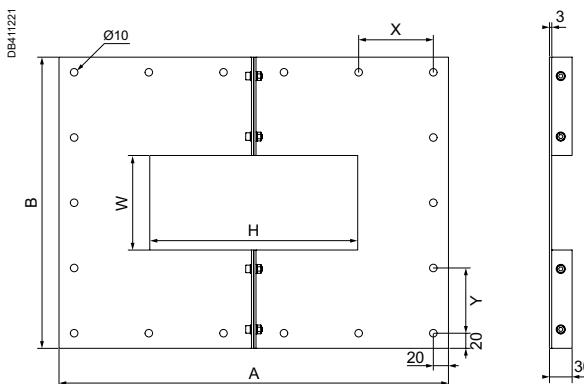
### WF - Wall flange

Sheet metal is made of stainless steel 316.

DB410271



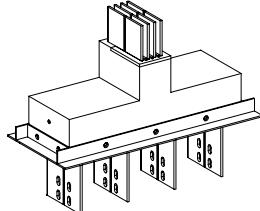
Type	Rating of the trunking (A)		Nb of cond.	H	W	A	B	X	Y	Cat.no.
	KRA	KRC								
1 unit per reference	800	1000	3, 4 or 5	90	90	490	490	90	150	KRB0090WF09
	1000	1350	3 or 4	110	100	510	500	94	92	KRB0110WF10
		5		110	120	510	520	94	96	KRB0110WF12
	1250	1600	3 or 4	130	100	530	500	98	92	KRB0130WF10
		5		130	120	530	520	98	96	KRB0130WF12
	1600	2000	3 or 4	190	100	590	500	110	92	KRB0190WF10
		5		190	120	590	520	110	96	KRB0190WF12
	2000	2500	3 or 4	230	100	630	500	118	92	KRB0230WF10
		5		230	120	630	520	118	96	KRB0230WF12
	2500	3200	3 or 4	270	100	670	500	126	92	KRB0270WF10
		5		270	120	670	520	126	160	KRB0270WF12
	3200	4000	3 or 4	380	100	780	500	148	115	KRB0380WF10
		5		380	120	780	520	148	120	KRB0380WF12
	4000	5000	3 or 4	460	100	860	500	164	115	KRB0460WF10
		5		460	120	860	520	164	160	KRB0460WF12
	5000	6300	3 or 4	540	100	940	500	180	115	KRB0540WF10
		5		540	120	940	520	180	120	KRB0540WF12



# Feed units

## Standard

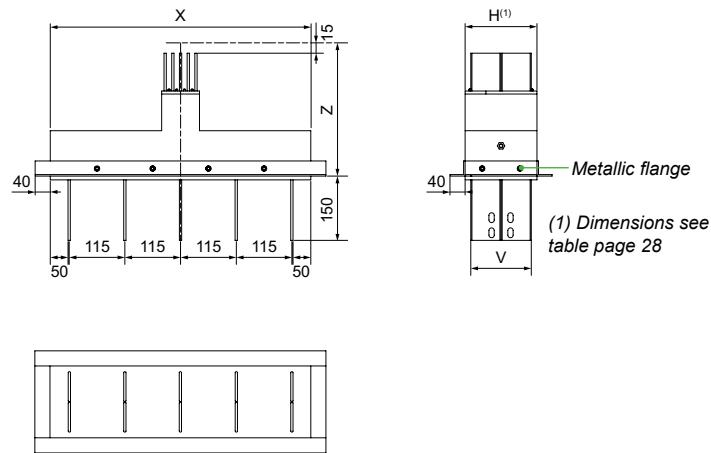
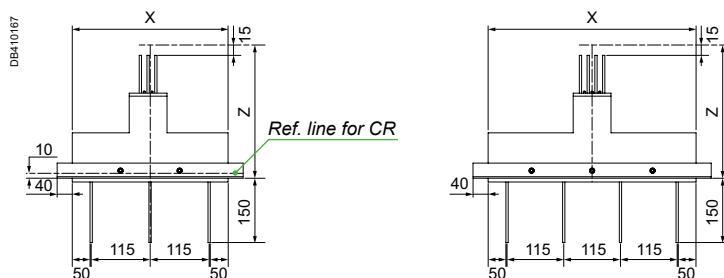
### ER•1 - Straight feed unit



Bare copper or tinned aluminium connection pads

Rating (A)		Dimensions (mm)				
KRA	KRC	X	Z	H		
		3 cond.	4 cond.	5 cond.		
0800	1000	330	445	560	300	90
1000	1350	330	445	560	300	110
1250	1600	330	445	560	300	130
1600	2000	330	445	560	300	190
2000	2500	330	445	560	300	230
2500	3200	330	445	560	300	270
3200	4000	330	445	560	300	380
4000	5000	330	445	560	300	460
5000	6300	330	445	560	300	540

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed		KR•••••ER31	KR•••••ER41	KR•••••ER51

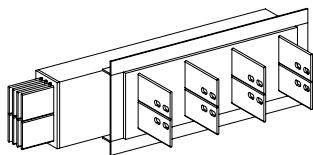


### Dimensions of connection pads for standard end feed units ER•1 and EL•1

Rating (A)	KRA	0800	1000	1250	1600	2000	2500	3200	4000	5000
KRC	1000	1350	1600	2000	2500	3200	4000	430	5000	6300
Dimensions (mm) V	60	80	100	160	200	240	350	430	510	
Drilling for connection (mm)										
Thickness of conductor = 6 mm	60	80	100	160	200	240	350	430	510	
	40	40	50	40	50	60	40	200	240	
	20	14x26				190	40	30	200	
	60	80	100	160	200	240	350	430	510	
	40	40	50	40	50	60	40	200	240	
	20	14x26				190	40	30	200	
	60	80	100	160	200	240	350	430	510	
	40	40	50	40	50	60	40	200	240	
	20	14x26				190	40	30	200	

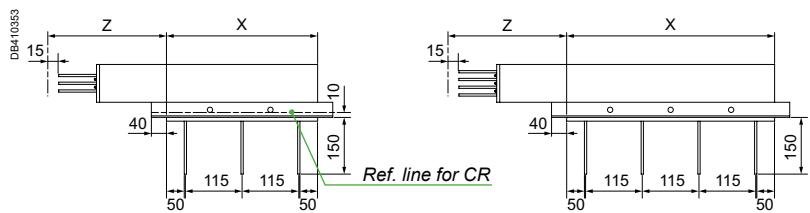
**EL•1 - Long feed unit**

DB410187

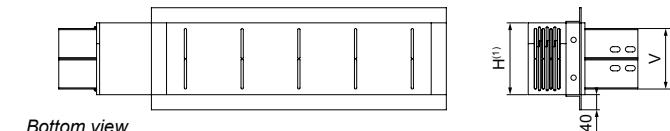
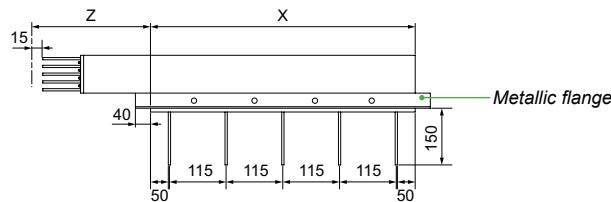


Bare copper or tinned aluminium connection pads

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••EL31	KR•••••EL41	KR•••••EL51	



Rating (A)	Dimensions (mm)					
	KRA	KRC	X	Z	H	
			3 cond.	4 cond.	5 cond.	
0800	1000	1000	330	445	560	300 90
1000	1350	1350	330	445	560	300 110
1250	1600	1600	330	445	560	300 130
1600	2000	2000	330	445	560	300 190
2000	2500	2500	330	445	560	300 230
2500	3200	3200	330	445	560	300 270
3200	4000	4000	330	445	560	300 380
4000	5000	5000	330	445	560	300 460
5000	6300	6300	330	445	560	300 540

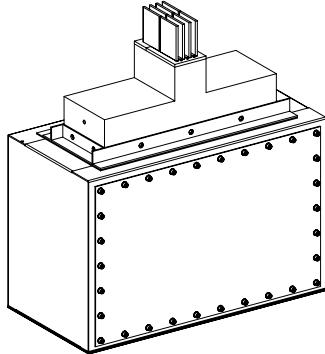
**Dimensions of connection pads for standard end feed units ER•1 and EL•1**

Rating (A)	KRA	0800	1000	1250	1600	2000	2500	3200	4000	5000
KRC	1000	1350	1600	2000	2500	3200	4000	5000	5000	6300
Dimensions (mm) V	60	80	100	160	200	240	350	430	430	510
<b>Drilling for connection (mm)</b>										
Thickness of conductor = 6 mm	60	80	100	160	200	240	350	430	430	510
	14x26	40	50	40	50	60	40 190 40	50 230 50	60 270 60	240 30 240

# Feed units

## Standard

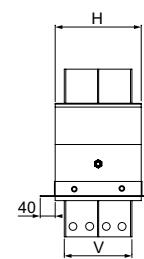
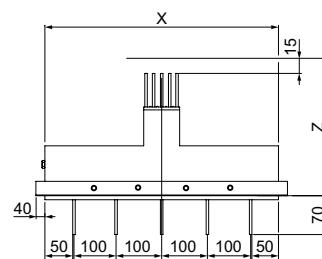
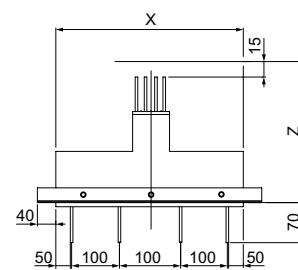
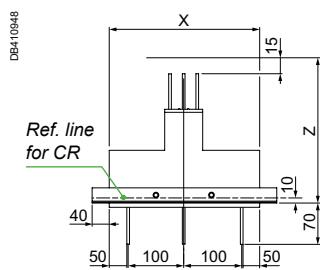
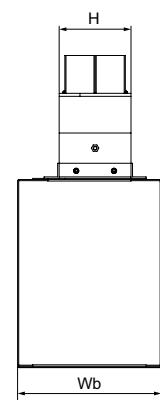
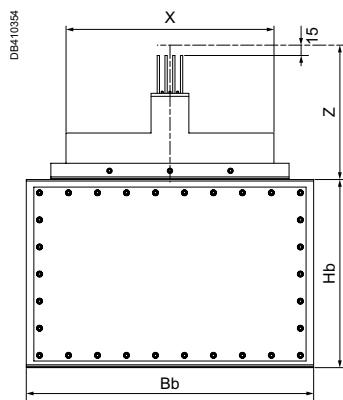
### ER•9 - Cable end feed unit



Bare copper or tinned aluminium connection pads

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	KR•••••ER39	KR•••••ER49	KR•••••ER59	

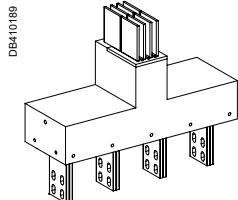
Reference includes feed unit in resin + metallic box.  
The box is made of stainless steel SS316 3 mm thickness.



KRA	KRC	Rating of the trunking (A)			Element outer dimension (mm)			Cable-Box outer dimension (mm)		
		X			Z	H	Bb	Hb Wb		
		3 cond.	4 cond.	5 cond.	3 cond.	4 cond.	5 cond.	3 cond.	4 cond.	5 cond.
800	1000	300	400	500	300	90	420	520	620	400 210
1000	1350	300	400	500	300	110	420	520	620	600 230
1250	1600	300	400	500	300	130	420	520	620	600 250
1600	2000	300	400	500	300	190	420	520	620	800 310
2000	2500	300	400	500	300	230	420	520	620	800 350
2500	3200	300	400	500	300	270	420	520	620	800 390
3200	4000	300	400	500	300	380	420	520	620	900 500
4000	5000	300	400	500	300	460	420	520	620	900 580
5000	6300	300	400	500	300	540	420	520	620	900 660

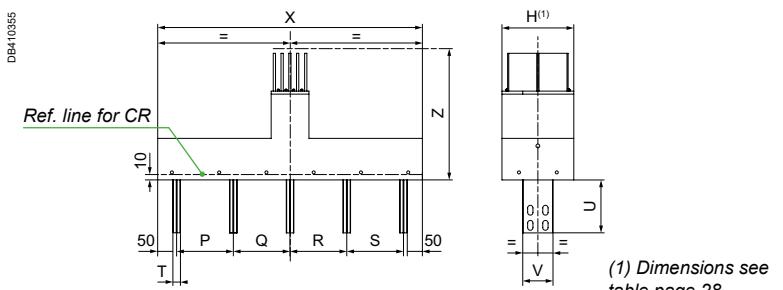
# Feed units

## Made to measure

**ER•2 - Straight feed unit**

Tinned connection pads

Type	Cat. no.	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••ER32	KR•••••ER42	KR•••••ER52



(1) Dimensions see table page 28

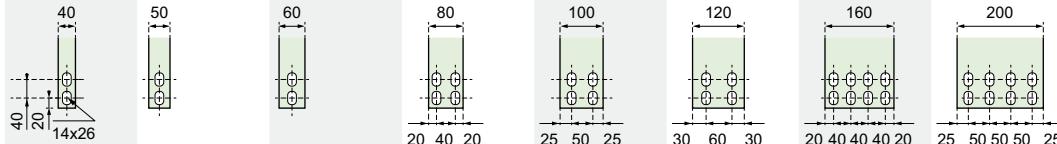
Polarity	T*	P, Q min with P + Q < X - 100 - T	X	U	Z
3L	6	62	230 to 800	90 to 250	(V + 245) to 500
	10	70	250 to 800	90 to 250	(V + 245) to 500
	12	74	260 to 800	90 to 250	(V + 245) to 500
	20	90	300 to 800	90 to 250	(V + 245) to 500
	30	110	350 to 800	90 to 250	(V + 245) to 500
	40	130	400 to 800	90 to 250	(V + 245) to 500
	50	150	450 to 800	90 to 250	(V + 245) to 500
Polarity	T*	P, Q, R min with P + Q + R < X - 100 - T	X	U	Z
3L + N	6	62	292 to 800	90 to 250	(V + 245) to 500
	10	70	320 to 800	90 to 250	(V + 245) to 500
	12	74	334 to 800	90 to 250	(V + 245) to 500
	20	90	390 to 800	90 to 250	(V + 245) to 500
	30	110	460 to 800	90 to 250	(V + 245) to 500
	40	130	530 to 800	90 to 250	(V + 245) to 500
	50	150	600 to 800	90 to 250	(V + 245) to 500
Polarity	T*	P, Q, R, S min with P + Q + R + S < X - 100 - T	X	U	Z
3L + N + PE	6	62	354 to 800	90 to 250	(V + 245) to 500
	10	70	390 to 800	90 to 250	(V + 245) to 500
	12	74	408 to 800	90 to 250	(V + 245) to 500
	20	90	480 to 800	90 to 250	(V + 245) to 500
	30	110	570 to 800	90 to 250	(V + 245) to 500
	40	130	660 to 800	90 to 250	(V + 245) to 500
	50	150	750 to 800	90 to 250	(V + 245) to 500

NOTE: For ordering separate ER and CR, consult front end.

\* See following table.

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

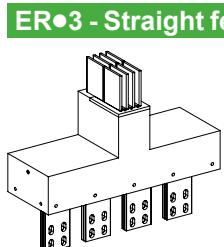
Rating (A)		Bars width (V)								
KRA	KRC	40	50	60	80	100	120	160	200	
0800	1000	12	10	6						
1000	1350		20	10	10					
1250	1600		20	20	10	10				
1600	2000		20	20	10	10				
2000	2500			20	20	20				
2500	3200				30	20		10	10	
3200	4000					40	30	20	20	
4000	5000					50	40	30	20	
5000	6300						50	40	30	



## Catalogue numbers and dimensions

## Feed units

## Made to measure



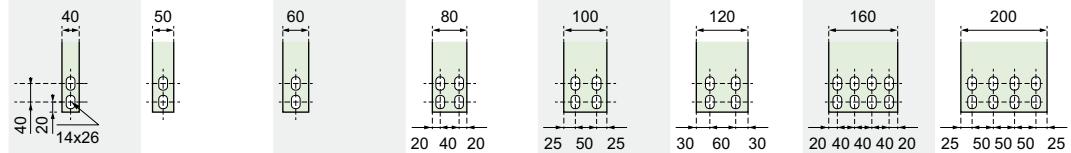
### *Tinned connection pads*

Minimum Phase distance = V + 25 mm.

Polarity	V	W1	P, Q min with P + Q < X - 100 - V	X	U	Z
3L	40	T + 85	65	270 to 1200	90 to 250	(T + 245) to 500
	50	T + 85	75	300 to 1200	90 to 250	(T + 245) to 500
	60	T + 85	85	330 to 1200	90 to 250	(T + 245) to 500
	80	T + 85	105	390 to 1200	90 to 250	(T + 245) to 500
	100	T + 85	125	450 to 1200	90 to 250	(T + 245) to 500
	120	T + 85	145	510 to 1200	90 to 250	(T + 245) to 500
	160	T + 85	185	630 to 1200	90 to 250	(T + 245) to 500
	200	T + 85	225	750 to 1200	90 to 250	(T + 245) to 500
Polarity	V	W1	P, Q, R min with P + Q + R < X - 100 - V	X	U	Z
3L + N	40	T + 85	65	335 to 1200	90 to 250	(T + 245) to 500
	50	T + 85	75	375 to 1200	90 to 250	(T + 245) to 500
	60	T + 85	85	415 to 1200	90 to 250	(T + 245) to 500
	80	T + 85	105	495 to 1200	90 to 250	(T + 245) to 500
	100	T + 85	125	575 to 1200	90 to 250	(T + 245) to 500
	120	T + 85	145	655 to 1200	90 to 250	(T + 245) to 500
	160	T + 85	185	815 to 1200	90 to 250	(T + 245) to 500
	200	T + 85	225	975 to 1200	90 to 250	(T + 245) to 500
Polarity	V	W1	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	U	Z
3L + N + PE	40	T + 125	65	400 to 1200	90 to 250	(T + 285) to 500
	50	T + 125	75	450 to 1200	90 to 250	(T + 285) to 500
	60	T + 125	85	500 to 1200	90 to 250	(T + 285) to 500
	80	T + 125	105	600 to 1200	90 to 250	(T + 285) to 500
	100	T + 125	125	700 to 1200	90 to 250	(T + 285) to 500
	120	T + 125	145	800 to 1200	90 to 250	(T + 285) to 500
	160	T + 125	185	1000 to 1200	90 to 250	(T + 285) to 500
	200	T + 125	225	1200 to 1200	90 to 250	(T + 285) to 500

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

Rating (A)		Bars width (V)									
KRA	KRC	40	50	60	80	100	120	160	200		
0800	1000	12	10	6							
1000	1350		20	10	10						
1250	1600		20	20	10	10					
1600	2000			20	20	10	10				
2000	2500				20	20	20				
2500	3200					30	20	10	10		
3200	4000					40	30	20	20		
4000	5000					50	40	30	20		
5000	6300						50	40	30		



# Feed units

## Made to measure

### How to order?

Complete the catalogue number by replacing the first "●" by the material type and the next "●●●" by the rating.

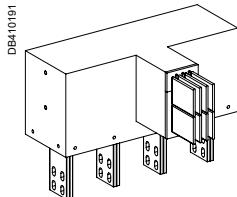
#### Example:

- Rating 2500 A, Conductors in copper, 3L+N
- Distance between bars = 115 mm
- Bars length = 180 mm
- Bars wide = 100 mm.

**KRC2500EL44**

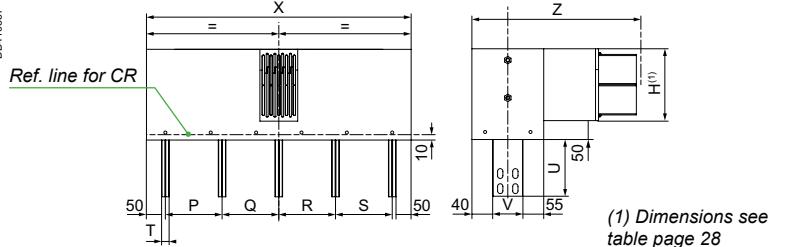
Z = 345, P = 115, Q = 115, R = 115, U = 180, V = 100

### ER●4 - Edgewise elbow feed unit



Tinned connection pads

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR●●●●ER34	KR●●●●ER44	KR●●●●ER54	

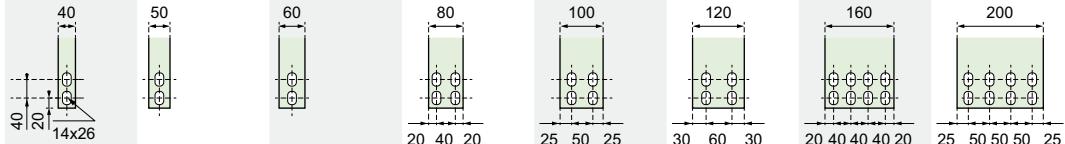


Polarity	T*	P, Q min with P + Q < X - 100 - T	X	Z	U
3L	6	62	230 to 800	(V + 255) to 500	90 to 250
	10	70	250 to 800	(V + 255) to 500	90 to 250
	12	74	260 to 800	(V + 255) to 500	90 to 250
	20	90	300 to 800	(V + 255) to 500	90 to 250
	30	110	350 to 800	(V + 255) to 500	90 to 250
	40	130	400 to 800	(V + 255) to 500	90 to 250
	50	150	450 to 800	(V + 255) to 500	90 to 250
Polarity	T*	P, Q, R min with P + Q + R < X - 100 - T	X	Z	U
3L + N	6	62	292 to 800	(V + 255) to 500	90 to 250
	10	70	320 to 800	(V + 255) to 500	90 to 250
	12	74	334 to 800	(V + 255) to 500	90 to 250
	20	90	390 to 800	(V + 255) to 500	90 to 250
	30	110	460 to 800	(V + 255) to 500	90 to 250
	40	130	530 to 800	(V + 255) to 500	90 to 250
	50	150	600 to 800	(V + 255) to 500	90 to 250
Polarity	T*	P, Q, R, S min with P + Q + R + S < X - 100 - T	X	Z	U
3L + N + PE	6	62	354 to 800	(V + 255) to 500	90 to 250
	10	70	390 to 800	(V + 255) to 500	90 to 250
	12	74	408 to 800	(V + 255) to 500	90 to 250
	20	90	480 to 800	(V + 255) to 500	90 to 250
	30	110	570 to 800	(V + 255) to 500	90 to 250
	40	130	660 to 800	(V + 255) to 500	90 to 250
	50	150	750 to 800	(V + 255) to 500	90 to 250

\* See following table.

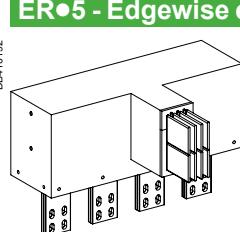
### Possible terminal width (V) and thickness (T) for made to measure feed units only

Rating (A)		Bars width (V)							
KRA	KRC	40	50	60	80	100	120	160	200
0800	1000	12	10	6					
1000	1350		20	10	10				
1250	1600		20	20	10	10			
1600	2000			20	20	10	10		
2000	2500				20	20	20		
2500	3200					30	20	10	10
3200	4000					40	30	20	20
4000	5000					50	40	30	20
5000	6300						50	40	30



# Feed units

## Made to measure



#### *Tinned connection pads*

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••ER35	KR•••••ER45	KR•••••ER55

Ref. line for CR

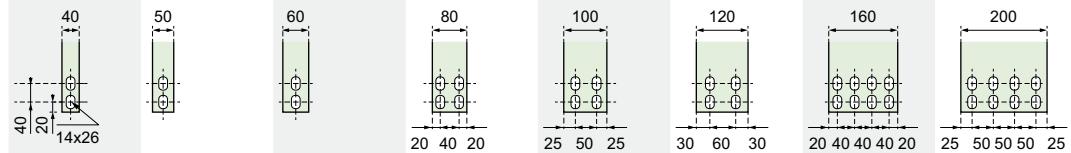
U8410358

Minimum Phase distance = V + 25 mm.

Polarity	V	P, Q min with P + Q < X - 100 - V	X	Z	Y	U
3L	40	65	270 to 1200	(T + 260) to 500	60	90 to 250
	50	75	300 to 1200	(T + 260) to 500	60	90 to 250
	60	85	330 to 1200	(T + 260) to 500	60	90 to 250
	80	105	390 to 1200	(T + 260) to 500	60	90 to 250
	100	125	450 to 1200	(T + 260) to 500	60	90 to 250
	120	145	510 to 1200	(T + 260) to 500	60	90 to 250
	160	185	630 to 1200	(T + 260) to 500	60	90 to 250
	200	225	750 to 1200	(T + 260) to 500	60	90 to 250
Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	Z	Y	U
3L + N	40	65	335 to 1200	(T + 260) to 500	60	90 to 250
	50	75	375 to 1200	(T + 260) to 500	60	90 to 250
	60	85	415 to 1200	(T + 260) to 500	60	90 to 250
	80	105	495 to 1200	(T + 260) to 500	60	90 to 250
	100	125	575 to 1200	(T + 260) to 500	60	90 to 250
	120	145	655 to 1200	(T + 260) to 500	60	90 to 250
	160	185	815 to 1200	(T + 260) to 500	60	90 to 250
	200	225	975 to 1200	(T + 260) to 500	60	90 to 250
Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	Z	Y	U
3L + N + PE	40	65	400 to 1200	(T + 300) to 500	100	90 to 250
	50	75	450 to 1200	(T + 300) to 500	100	90 to 250
	60	85	500 to 1200	(T + 300) to 500	100	90 to 250
	80	105	600 to 1200	(T + 300) to 500	100	90 to 250
	100	125	700 to 1200	(T + 300) to 500	100	90 to 250
	120	145	800 to 1200	(T + 300) to 500	100	90 to 250
	160	185	1000 to 1200	(T + 300) to 500	100	90 to 250
	200	225	1200 to 1200	(T + 300) to 500	100	90 to 250

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

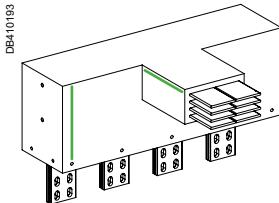
Rating (A)	Bars width (V)									
KRA	KRC	40	50	60	80	100	120	160	200	
0800	1000	12	10	6						
1000	1350		20	10	10					
1250	1600		20	20	10	10				
1600	2000			20	20	10	10			
2000	2500				20	20	20			
2500	3200					30	20	10	10	
3200	4000					40	30	20	20	
4000	5000					50	40	30	20	
5000	6300						50	40	30	



## Feed units

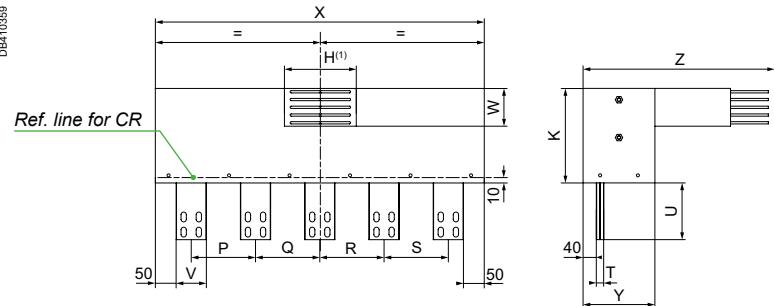
# Made to measure

## ER●6 - Flat elbow feed unit



### *Tinned connection pads*

Type	Cat. no.		
	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••ER36	KR•••••ER46	KR•••••ER56



(1) Dimensions see table page 28

Minimum Phase distance = V + 25 mm.

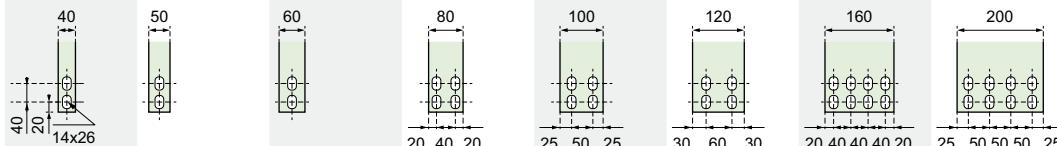
Polarity	V	P, Q min with $P + Q < X - 100 - V$	X	Y (max 480)	Z	K	U
3L	40	65	270 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	50	75	300 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	60	85	330 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	80	105	390 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	100	125	450 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	120	145	510 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	160	185	630 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250
	200	225	750 to 1200	H + T + 140	(Y + 160) to 700	T + 164	90 to 250

Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	Y (max 480)	Z	K	U
3L + N	40	65	335 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	50	75	375 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	60	85	415 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	80	105	495 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	100	125	575 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	120	145	655 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	160	185	815 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250
	200	225	975 to 1200	H + T + 140	(Y + 160) to 700	2 x T + 206	90 to 250

Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	Y (max 480)	Z	K	U
3L + N + PE	40	65	400 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	50	75	450 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	60	85	500 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	80	105	600 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	100	125	700 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	120	145	800 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	160	185	1000 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250
	200	225	1200 to 1200	H + T + 140	(Y + 160) to 700	3 x T + 248	90 to 250

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

Rating (A)	KRA	Bars width (V)								
		40	50	60	80	100	120	160	200	
0800	1000	12	10	6						
1000	1350		20	10	10					
1250	1600		20	20	10	10				
1600	2000			20	20	10	10			
2000	2500				20	20	20			
2500	3200					30	20	10	10	
3200	4000					40	30	20	20	
4000	5000					50	40	30	20	
5000	6300						50	40	30	



## Feed units

## Made to measure

A

## How to order?

Complete the catalogue number by replacing the first "●" by the material type and the next "●●●" by the rating.

## Example:

- Rating 2500 A, Conductors in copper, 3L + N
- Distance between bars = 115 mm
- Bars length = 180 mm
- Bars wide = 100 mm.

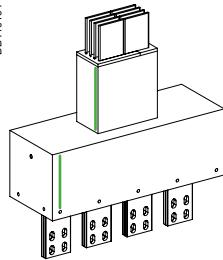
KRC2500EL47

Z = 490, P = 115, Q = 115, R = 115, U = 180, V = 100

B

## ER●7 - Straight feed unit

DB410194



Tinned connection pads

Minimum Phase distance = V + 25 mm.

Polarity	V	P, Q min with P + Q < X - 100 - V
----------	---	--------------------------------------

3L	V	X	K (max 370)	Z	Y	U
40	65	270 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
50	75	300 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
60	85	330 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
80	105	390 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
100	125	450 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
120	145	510 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
160	185	630 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250
200	225	750 to 1200	H + 100	(K + 160) to 700	T + 164	90 to 250

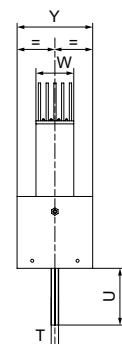
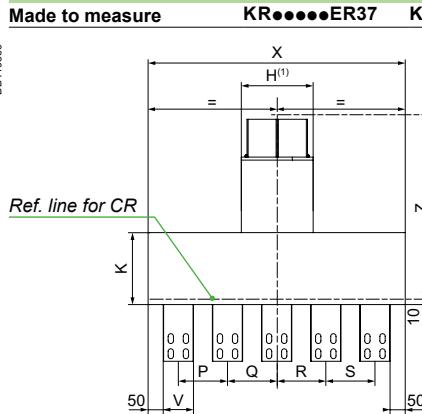
Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	K (max 370)	Z	Y	U
----------	---	---	---	----------------	---	---	---

3L + N	40	65	335 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	50	75	375 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	60	85	415 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	80	105	495 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	100	125	575 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	120	145	655 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	160	185	815 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	200	225	975 to 1200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250

Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	K (max 370)	Z	Y	U
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3L + N + PE	40	65	400 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	50	75	450 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	60	85	500 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	80	105	600 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	100	125	700 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	120	145	800 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	160	185	1000 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	200	225	1200 to 1200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250

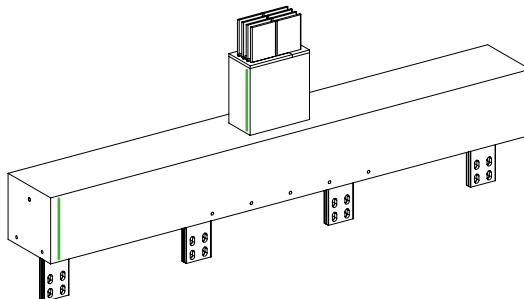
DB410380



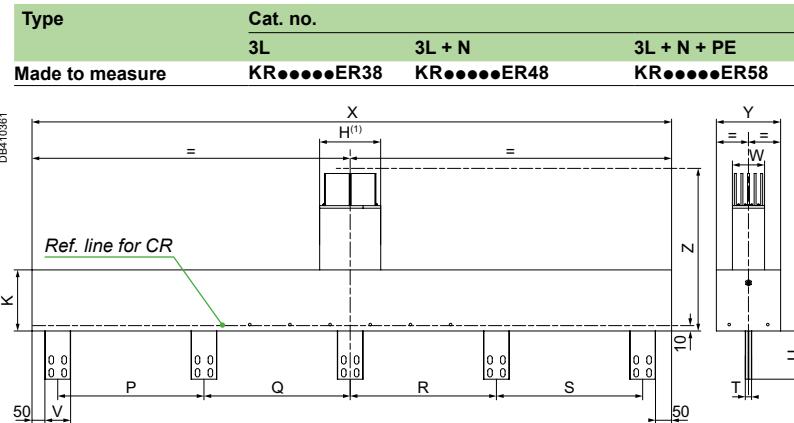
(1) Dimensions see table page 28

**ER•8 - Straight feed unit dry TR**

DB410195



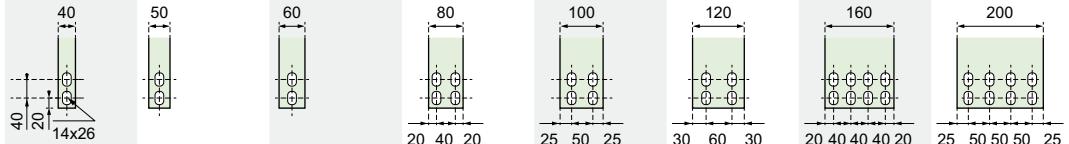
Tinned connection pads



Polarity	V	P, Q min with P + Q < X - 100 - V	X	K (max 370)	Z	Y	U
3L	40	530	270 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	50	525	300 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	60	520	330 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	80	510	390 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	100	500	450 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	120	490	510 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	160	470	630 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
	200	450	750 to 2200	H + 100	(K + 160) to 700	T + 164	90 to 250
Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	K (max 370)	Z	Y	U
3L + N	40	354	335 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	50	350	375 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	60	347	415 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	80	340	495 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	100	334	575 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	120	327	655 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	160	314	815 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
	200	300	975 to 2200	H + 100	(K + 160) to 700	2 x T + 206	90 to 250
Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	K (max 370)	Z	Y	U
3L + N + PE	40	265	400 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	50	263	450 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	60	260	500 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	80	255	600 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	100	250	700 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	120	245	800 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	160	235	1000 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250
	200	225	1200 to 2200	H + 100	(K + 160) to 700	3 x T + 248	90 to 250

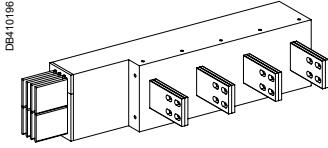
**Possible terminal width (V) and thickness (T) for made to measure feed units only**

Rating (A)		Bars width (V)							
KRA	KRC	40	50	60	80	100	120	160	200
0800	1000	12	10	6					
1000	1350		20	10	10				
1250	1600		20	20	10	10			
1600	2000		20	20	10	10			
2000	2500			20	20	20			
2500	3200				30	20		10	10
3200	4000					30	20	20	
4000	5000					50	40	30	20
5000	6300						50	40	30



## Feed units

## Made to measure

**EL•2 - Long feed unit**

Tinned connection pads

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••EL32	KR•••••EL42	KR•••••EL52	

DB410362

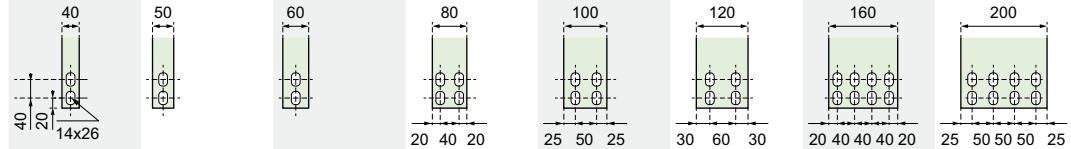
(1) Dimensions see table page 28

Polarity	T*	P, Q min with P + Q < X - 100 - T	X	Z	U
3L	6	62	230 to 800	200 to 500	90 to 250
	10	70	250 to 800	200 to 500	90 to 250
	12	74	260 to 800	200 to 500	90 to 250
	20	90	300 to 800	200 to 500	90 to 250
	30	110	350 to 800	200 to 500	90 to 250
	40	130	400 to 800	200 to 500	90 to 250
	50	150	450 to 800	200 to 500	90 to 250
Polarity	T*	P, Q, R min with P + Q + R < X - 100 - T	X	Z	U
3L + N	6	62	292 to 800	200 to 500	90 to 250
	10	70	320 to 800	200 to 500	90 to 250
	12	74	334 to 800	200 to 500	90 to 250
	20	90	390 to 800	200 to 500	90 to 250
	30	110	460 to 800	200 to 500	90 to 250
	40	130	530 to 800	200 to 500	90 to 250
	50	150	600 to 800	200 to 500	90 to 250
Polarity	T*	P, Q, R, S min with P + Q + R + S < X - 100 - T	X	Z	U
3L + N + PE	6	62	354 to 800	200 to 500	90 to 250
	10	70	390 to 800	200 to 500	90 to 250
	12	74	408 to 800	200 to 500	90 to 250
	20	90	480 to 800	200 to 500	90 to 250
	30	110	570 to 800	200 to 500	90 to 250
	40	130	660 to 800	200 to 500	90 to 250
	50	150	750 to 800	200 to 500	90 to 250

\* See following table.

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

Rating (A)	Bars width (V)	40	50	60	80	100	120	160	200
KRA	KRC	40	50	60	80	100	120	160	200
0800	1000	12	10	6					
1000	1350		20	10	10				
1250	1600		20	20	10	10			
1600	2000		20	20	10	10			
2000	2500			20	20	20			
2500	3200				30	20	10	10	
3200	4000				40	30	20	20	
4000	5000				50	40	30	20	
5000	6300					50	40	30	



# Feed units

## Made to measure

### How to order?

Complete the catalogue number by replacing the first "●" by the material type and the next "●●●" by the rating.

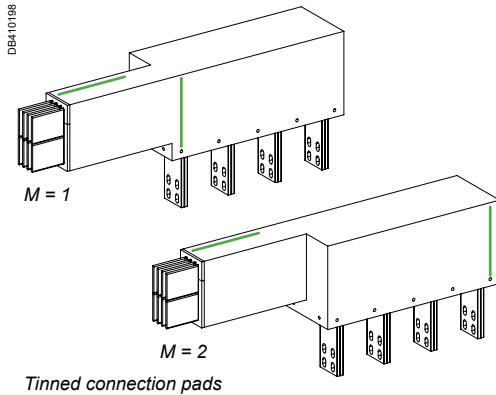
#### Example:

- Rating 2500 A, Conductors in copper, 3L+N
- Distance between bars = 115 mm
- Bars length = 180 mm
- Bars wide = 100 mm.

KRC2500EL43

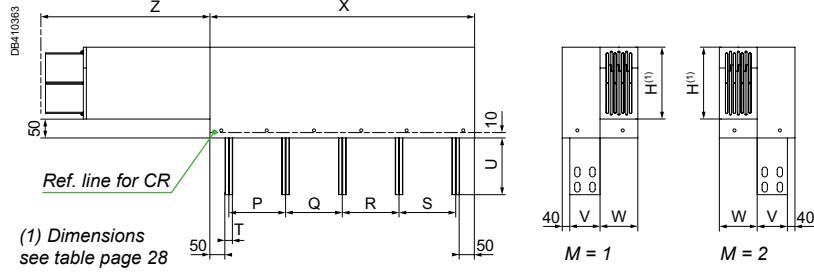
Z = 200, M = 1, P = 115, Q = 115, R = 115, U = 180, V = 100

### EL●3 - Long feed unit



Tinned connection pads

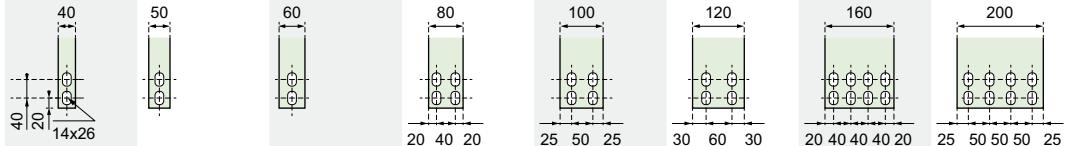
Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR●●●●●EL33	KR●●●●●EL43	KR●●●●●EL53	



Polarity	T	P, Q min with P + Q < X - 100 - T	X	Z	U
3L	6	62	230 to 800	200 to 500	90 to 250
	10	70	250 to 800	200 to 500	90 to 250
	12	74	260 to 800	200 to 500	90 to 250
	20	90	300 to 800	200 to 500	90 to 250
	30	110	350 to 800	200 to 500	90 to 250
	40	130	400 to 800	200 to 500	90 to 250
	50	150	450 to 800	200 to 500	90 to 250
Polarity	T	P, Q, R min with P + Q + R < X - 100 - T	X	Z	U
3L + N	6	62	292 to 800	200 to 500	90 to 250
	10	70	320 to 800	200 to 500	90 to 250
	12	74	334 to 800	200 to 500	90 to 250
	20	90	390 to 800	200 to 500	90 to 250
	30	110	460 to 800	200 to 500	90 to 250
	40	130	530 to 800	200 to 500	90 to 250
	50	150	600 to 800	200 to 500	90 to 250
Polarity	T	P, Q, R, S min with P + Q + R + S < X - 100 - T	X	Z	U
3L + N + PE	6	62	354 to 800	200 to 500	90 to 250
	10	70	390 to 800	200 to 500	90 to 250
	12	74	408 to 800	200 to 500	90 to 250
	20	90	480 to 800	200 to 500	90 to 250
	30	110	570 to 800	200 to 500	90 to 250
	40	130	660 to 800	200 to 500	90 to 250
	50	150	750 to 800	200 to 500	90 to 250

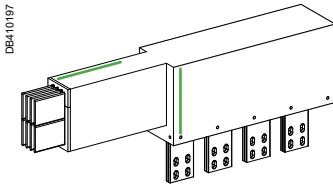
### Possible terminal width (V) and thickness (T) for made to measure feed units only

Rating (A)		Bars width (V)							
KRA	KRC	40	50	60	80	100	120	160	200
0800	1000	12	10	6					
1000	1350		20	10	10				
1250	1600		20	20	10	10			
1600	2000			20	20	10	10		
2000	2500				20	20	20		
2500	3200					30	20	10	10
3200	4000					40	30	20	20
4000	5000					50	40	30	20
5000	6300						50	40	30



## Feed units

## Made to measure

**EL•4 - Long feed unit**

Tinned connection pads

A

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••EL34	KR•••••EL44	KR•••••EL54	

(1) Dimensions see table page 28

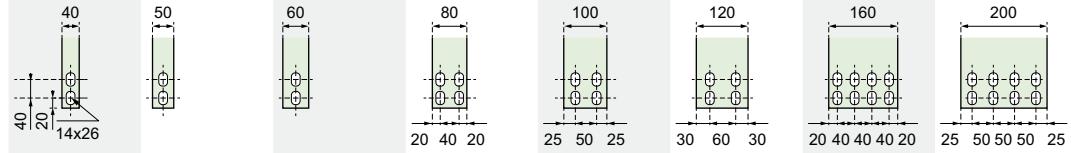
Minimum Phase distance = V + 25 mm.

Polarity	V	P, Q min with P + Q < X - 100 - V	X	Z	Y	U
3L	40	65	270 to 1200	200 to 500	T + 152	90 to 250
	50	75	300 to 1200	200 to 500	T + 152	90 to 250
	60	85	330 to 1200	200 to 500	T + 152	90 to 250
	80	105	390 to 1200	200 to 500	T + 152	90 to 250
	100	125	450 to 1200	200 to 500	T + 152	90 to 250
	120	145	510 to 1200	200 to 500	T + 152	90 to 250
	160	185	630 to 1200	200 to 500	T + 152	90 to 250
	200	225	750 to 1200	200 to 500	T + 152	90 to 250
Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	Z	Y	U
3L + N	40	65	335 to 1200	200 to 500	2 x T + 188	90 to 250
	50	75	375 to 1200	200 to 500	2 x T + 188	90 to 250
	60	85	415 to 1200	200 to 500	2 x T + 188	90 to 250
	80	105	495 to 1200	200 to 500	2 x T + 188	90 to 250
	100	125	575 to 1200	200 to 500	2 x T + 188	90 to 250
	120	145	655 to 1200	200 to 500	2 x T + 188	90 to 250
	160	185	815 to 1200	200 to 500	2 x T + 188	90 to 250
	200	225	975 to 1200	200 to 500	2 x T + 188	90 to 250
Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	Z	Y	U
3L + N + PE	40	65	400 to 1200	200 to 500	3 x T + 224	90 to 250
	50	75	450 to 1200	200 to 500	3 x T + 224	90 to 250
	60	85	500 to 1200	200 to 500	3 x T + 224	90 to 250
	80	105	600 to 1200	200 to 500	3 x T + 224	90 to 250
	100	125	700 to 1200	200 to 500	3 x T + 224	90 to 250
	120	145	800 to 1200	200 to 500	3 x T + 224	90 to 250
	160	185	1000 to 1200	200 to 500	3 x T + 224	90 to 250
	200	225	1200 to 1200	200 to 500	3 x T + 224	90 to 250

\* See following table.

**Possible terminal width (V) and thickness (T) for made to measure feed units only**

Rating (A)	Bars width (V)	40	50	60	80	100	120	160	200
KRA	KRC	1000	12	10	6				
0800	1000								
1000	1350		20	10	10				
1250	1600		20	20	10	10			
1600	2000		20	20	20	10	10		
2000	2500			20	20	20			
2500	3200				30	20	10	10	
3200	4000				40	30	20	20	
4000	5000				50	40	30	20	
5000	6300					50	40	30	

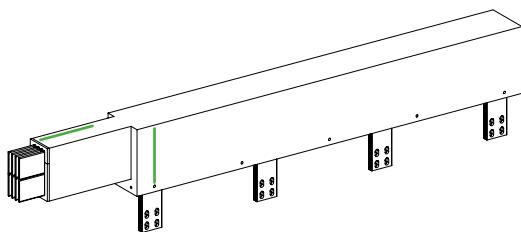


# Feed units

## Made to measure

### EL•5 - Long feed unit dry TR

DB410199



Tinned connection pads

Type	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	KR•••••EL35	KR•••••EL45	KR•••••EL55	
DB410365	Z	X		
	Ref. line for CR	P	Q	R
	V	50	50	50
				50
				T
			H <sup>(1)</sup>	

(1) Dimensions see table page 28

A

B

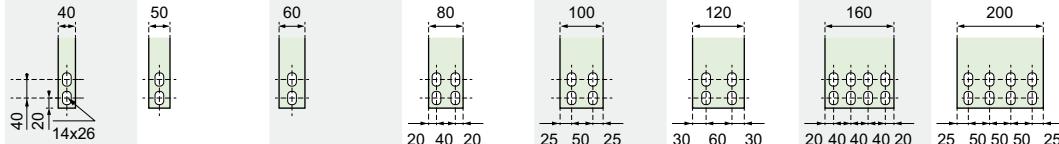
C

D

Polarity	V	P, Q min with P + Q < X - 100 - V	X	Z	Y	U
3L	40	530	1200 to 2200	200 to 500	T + 152	90 to 250
	50	525	1200 to 2200	200 to 500	T + 152	90 to 250
	60	520	1200 to 2200	200 to 500	T + 152	90 to 250
	80	510	1200 to 2200	200 to 500	T + 152	90 to 250
	100	500	1200 to 2200	200 to 500	T + 152	90 to 250
	120	490	1200 to 2200	200 to 500	T + 152	90 to 250
	160	470	1200 to 2200	200 to 500	T + 152	90 to 250
	200	450	1200 to 2200	200 to 500	T + 152	90 to 250
Polarity	V	P, Q, R min with P + Q + R < X - 100 - V	X	Z	Y	U
3L + N	40	354	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	50	350	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	60	347	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	80	340	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	100	334	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	120	327	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	160	314	1200 to 2200	200 to 500	2 x T + 188	90 to 250
	200	300	1200 to 2200	200 to 500	2 x T + 188	90 to 250
Polarity	V	P, Q, R, S min with P + Q + R + S < X - 100 - V	X	Z	Y	U
3L + N + PE	40	265	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	50	263	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	60	260	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	80	255	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	100	250	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	120	245	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	160	235	1200 to 2200	200 to 500	3 x T + 224	90 to 250
	200	225	1200 to 2200	200 to 500	3 x T + 224	90 to 250

### Possible terminal width (V) and thickness (T) for made to measure feed units only

Rating (A)		Bars width (V)								
KRA	KRC	40	50	60	80	100	120	160	200	
0800	1000	12	10	6						
1000	1350		20	10	10					
1250	1600		20	20	10	10				
1600	2000		20	20	10	10				
2000	2500			20	20	20				
2500	3200				30	20	10	10		
3200	4000					40	30	20	20	
4000	5000					50	40	30	20	
5000	6300						50	40	30	



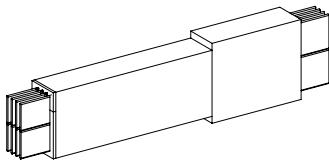
# Catalogue numbers and dimensions

## Fire resistant elements

www.se.com

A

### RU - Reduction unit



DB410200

The nominal rating of this unit corresponds to the maximum capacity of the small side.

The large side has the dimensions of the upper rating.

*NOTE: If this unit is not to connect fire resistant products, it must be used in conjunction with appropriate protection.*

Type	Length "X" (mm)	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed	1000	KR•••••RU3	KR•••••RU4	KR•••••RU5	

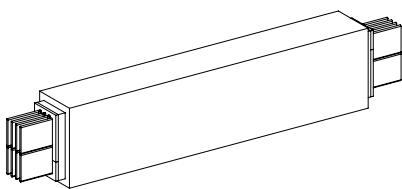
DB410366

(1) Dimensions see table page 28

Rating (A)	Dimensions (mm)		
KRA	KRC	H	A
0800	1000	90	110
1000	1350	110	130
1250	1600	130	190
1600	2000	190	230
2000	2500	230	270
2500	3200	270	380
3200	4000	380	460
4000	5000	460	540

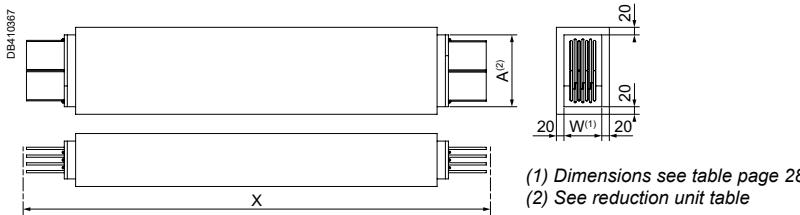
B

### FT - Fire rated straight length



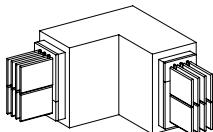
DB410201

Type	Length "X" (mm)	Cat. no.	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Made to measure	500 to 1000	KR•••••FT310	KR•••••FT410	KR•••••FT510	
	1001 to 1500	KR•••••FT315	KR•••••FT415	KR•••••FT515	
	1501 to 2000	KR•••••FT320	KR•••••FT420	KR•••••FT520	
	2001 to 2500	KR•••••FT325	KR•••••FT425	KR•••••FT525	
	2501 to 3000	KR•••••FT330	KR•••••FT430	KR•••••FT530	



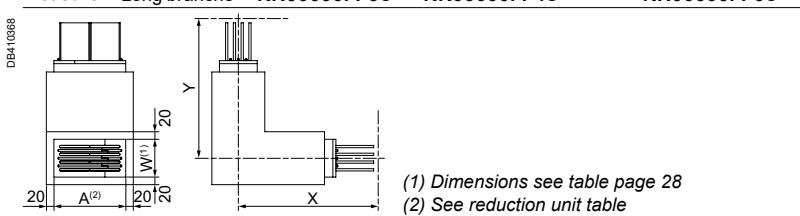
C

### FP - Fire rated flat elbow



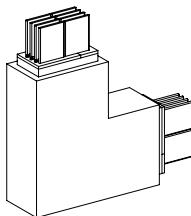
DB410202

Type	Cat. no.
Fixed	KR•••••FP3A
Made to measure	KR•••••FP3B
Long branche	KR•••••FP3C
	KR•••••FP4A
	KR•••••FP4B
	KR•••••FP4C
	KR•••••FP5A
	KR•••••FP5B
	KR•••••FP5C



Rating (A)		FP•A		FP•B		FP•C			
KRA	KRC	X	Y	X	Y	(X+Y) max	X	Y	(X+Y) max
800 to 5000	1000 to 6300	300	300	300 to 700	300 to 700	1000	300 to 1200	300 to 1200	1500

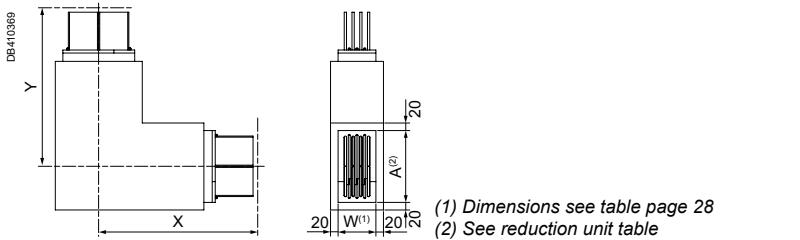
### FC - Fire rated edgewise elbow



DB410203

Type	Cat. no.
Fixed	KR•••••FC3A
Made to measure	KR•••••FC3B
Short branche	KR•••••FC4A
	KR•••••FC4B
	KR•••••FC5A
	KR•••••FC5B

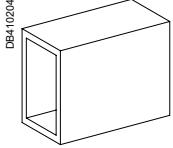
Rating (A)		FC•A		FC•B		(X+Y) max
KRA	KRC	X	Y	X	Y	
800 to 5000	1000 to 6300	500	500	500 to 1000	500 to 1000	1500



# Catalogue numbers and dimensions

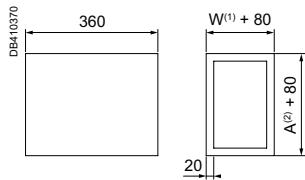
## Fire resistant elements

### FM - Fire rated casting mould



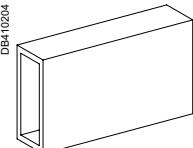
DB410204

Type	Rating of the trunking (A)		Nb of cond.	Cat. no.
	KRA	KRC		
Fire rated casting mould	0800 1000 1250 1600 2000 2500 3200 4000	1000 1350 1600 2000 2500 3200 4000 5000	3 or 4	KRB0110FM10
			5	KRB0110FM12
			3 or 4	KRB0130FM10
			5	KRB0130FM12
			3 or 4	KRB0190FM10
			5	KRB0190FM12
			3 or 4	KRB0230FM10
			5	KRB0230FM12
			3 or 4	KRB0270FM10
			5	KRB0270FM12



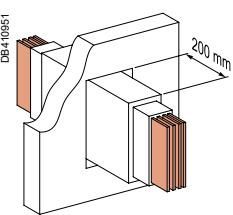
(1) Dimensions see table page 28  
(2) See reduction unit table page 52

### CF - Fire barrier S120

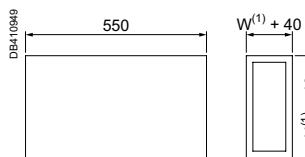


DB410204

Type	Rating of the trunking (A)		Nb of cond.	Cat. no.
	KRA	KRC		
Composed of single unit of 550 mm	0800 1000 1250 1600 2000 2500 3200 4000 5000	1000 1350 1600 2000 2500 3200 4000 5000	3, 4 or 5	KRB0090CF09
			3 or 4	KRB0110CF10
			5	KRB0110CF12
			3 or 4	KRB0130CF10
			5	KRB0130CF12
			3 or 4	KRB0190CF10
			5	KRB0190CF12
			3 or 4	KRB0230CF10
			5	KRB0230CF12
			3 or 4	KRB0270CF10



Fire barrier kit (Promatec 200)



(1) Dimensions see table page 28

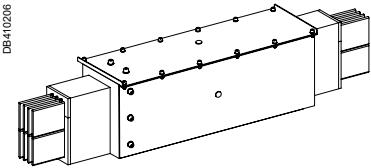
# Catalogue numbers and dimensions

## Other run sections

www.se.com

A

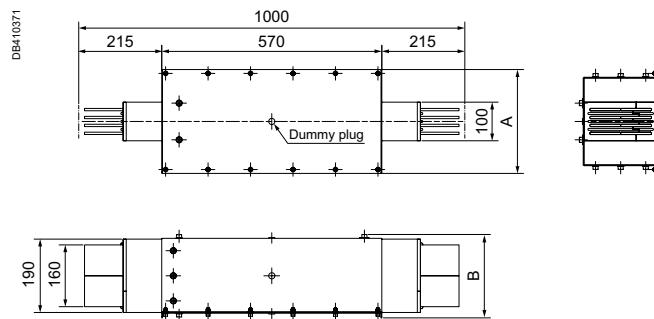
### DB - Expansion unit



DB410206

Rating of the trunking (A)		Nb of cond.	A	B
KRA	KRC			
800	1000	3 or 4	290	117
		5	330	117
1000	1250	3 or 4	310	137
		5	350	137
1250	1600	3 or 4	310	157
		5	350	157
1600	2000	3 or 4	310	217
		5	350	217
2000	2500	3 or 4	310	257
		5	350	257
2500	3200	3 or 4	310	297
		5	350	297
3200	4000	3 or 4	260	450
		5	310	450
4000	5000	3 or 4	260	530
		5	310	530
5000	6300	3 or 4	260	610
		5	310	610

Type	Length "X" (mm)	Cat. no.
		3L      3L + N / 3L + PE / 3L + PEN
Fixed	1000	KR••••DB3      KR••••DB4      KR••••DB5

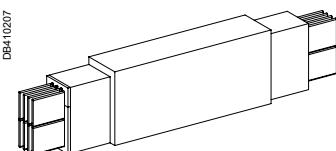


B

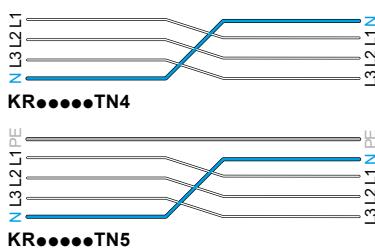
Rating of the trunking (A)		Nb of cond.	A	B
KRA	KRC			
800	1000	3 or 4	290	117
		5	330	117
1000	1250	3 or 4	310	137
		5	350	137
1250	1600	3 or 4	310	157
		5	350	157
1600	2000	3 or 4	310	217
		5	350	217
2000	2500	3 or 4	310	257
		5	350	257
2500	3200	3 or 4	310	297
		5	350	297
3200	4000	3 or 4	260	450
		5	310	450
4000	5000	3 or 4	260	530
		5	310	530
5000	6300	3 or 4	260	610
		5	310	610

C

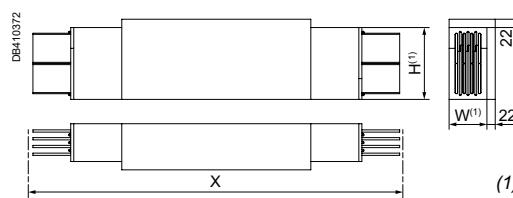
### TN - Neutral crossover



DB410207



Type	Length "X" (mm)	Cat. no.
Fixed	1000	-      3L      3L + N / 3L + PE / 3L + PEN      3L + N + PE



(1) Dimensions see table page 28

D

# Catalogue numbers and dimensions

## Other run sections

### TP - Phase crossover

DB410207

**Type**      **Length "X" (mm)**      **Cat. no.**

	1000	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed		KR•••••TP3	KR•••••TP4	KR•••••TP5

(1) Dimensions see table page 28

DB410372

L3 L2 L1      L1 L2 L3  
KR•••••TP3

L3 L2 L1      L1 L2 L3  
KR•••••TP4

L3 L2 L1      L1 L2 L3  
N PE  
KR•••••TP5

A

B

C

D

### TO - Phases balance

Phase balance unit is mandatory if the run length is over 90 m.  
In this case 3 units have to be installed inevitably under the following repartition.

Phase indication is labeled in each phase conductor.

DB410207

**Type**      **Length "X" (mm)**      **Cat. no.**

	1000	3L	3L + N / 3L + PE / 3L + PEN	3L + N + PE
Fixed		KR•••••TO3	KR•••••TO4	KR•••••TO5

DB410372

DB410166

L3 L2 L1      L1 L2 L3      L2 L1 L3      L3 L2 L1  
L3 L2 L1 N      L1 L3 L2 N      L2 L1 L3 N      L2 L1 L3 N  
L3 L2 L1 N PE      L1 L3 L2 N PE      L2 L1 L3 N PE      L3 L2 L1 N PE

# Catalogue numbers and dimensions

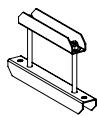
## Supports

www.se.com

A

### ZA1 - Horizontal flat support

Sheet metals and bolts are made of stainless steel 316.

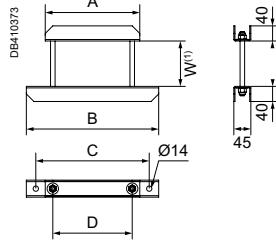


DB410208

Type	Rating of the trunking (A)		Cat. no.
	KRA	KRC	
Horizontal flat support	0800	1000	KRB0090ZA1
	1000	1350	KRB0110ZA1
	1250	1600	KRB0130ZA1
	1600	2000	KRB0190ZA1
	2000	2500	KRB0230ZA1
	2500	3200	KRB0270ZA1
	3200	4000	KRB0380ZA1
	4000	5000	KRB0460ZA1
	5000	6300	KRB0540ZA1

B

Rating (A)		Dimensions (mm)			
KRA	KRC	A	B	C	D
0800	1000	150	250	200	110
1000	1350	170	270	220	130
1250	1600	190	290	240	150
1600	2000	250	350	300	210
2000	2500	290	390	340	250
2500	3200	330	430	380	290
3200	4000	440	540	490	400
4000	5000	520	620	570	480
5000	6300	600	700	650	560



(1) Dimensions see table page 28

C

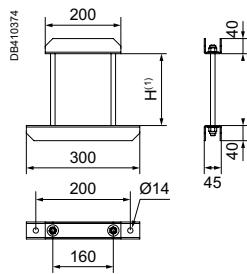
### ZA2 - Horizontal edgewise support

Sheet metals and bolts are made of stainless steel 316.



DB410209

Type	Rating of the trunking (A)		Cat. no.
	KRA	KRC	
Horizontal edgewise support	0800	1000	KRB0090ZA2
	1000	1350	KRB0110ZA2
	1250	1600	KRB0130ZA2
	1600	2000	KRB0190ZA2
	2000	2500	KRB0230ZA2
	2500	3200	KRB0270ZA2
	3200	4000	KRB0380ZA2
	4000	5000	KRB0460ZA2
	5000	6300	KRB0540ZA2



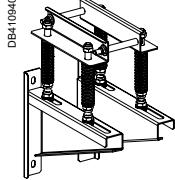
(1) Dimensions see table page 28

D

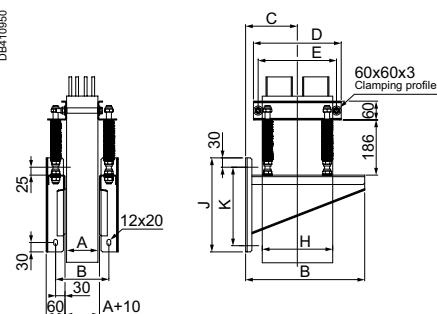
Rating (A)		Dimensions (mm)
KRA	KRC	H
0800	1000	90
1000	1350	110
1250	1600	130
1600	2000	190
2000	2500	230
2500	3200	270
3200	4000	380
4000	5000	460
5000	6300	540

**ZA5 - Vertical wall spring support**

Sheet metals and bolts are made of stainless steel 316.



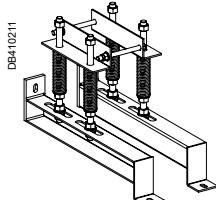
Type	Cat. no.	
	3, 4 cond.	5 cond.
Vertical wall spring support	KR••••ZA45	KR••••ZA55



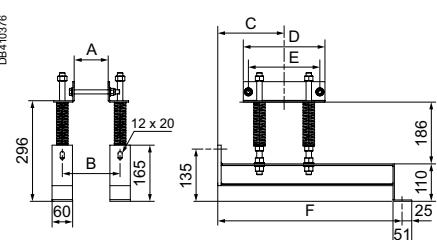
Rating (A)		Dimensions (mm)									
KRA	KRC	H	A	B	C	D	E	G	J	K	Nb of slots
800	1000	3 or 4	90	90	160	90-145	140	110	235	220	160 2
	5	90	90	160	90-145	140	110	235	220	160	2
1000	1350	3 or 4	110	100	170	105-155	160	130	235	220	160 2
	5	110	120	190	105-155	160	130	235	220	160	2
1250	1600	3 or 4	130	100	170	115-165	180	150	235	220	160 2
	5	130	120	190	115-165	180	150	235	220	160	2
1600	2000	3 or 4	190	100	170	145-195	240	210	295	300	240 2
	5	190	120	190	145-195	240	210	295	300	240	2
2000	2500	3 or 4	230	100	170	165-215	280	250	380	300	240 2
	5	230	120	190	165-215	280	250	380	300	240	2
2500	3200	3 or 4	270	100	170	185-235	320	290	380	300	240 2
	5	270	120	190	185-235	320	290	380	300	240	2
3200	4000	3 or 4	380	100	170	240-290	430	400	490	380	320 3
	5	380	120	190	240-290	430	400	490	380	320	3
4000	5000	3 or 4	460	100	170	280-330	510	480	570	380	320 3
	5	460	120	190	280-330	510	480	570	380	320	3
5000	6300	3 or 4	540	100	170	320-370	590	560	650	380	320 3
	5	540	120	190	320-370	590	560	650	380	320	3

**ZA6 - Vertical floor spring support**

Sheet metals and bolts are made of stainless steel 316.



Type	Cat. no.	
	3, 4 cond.	5 cond.
Vertical wall spring support	KR••••ZA46	KR••••ZA56

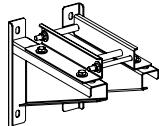


Rating (A)	Nb of cond.	Dimensions (mm)						
KRA	KRC	A	B	C	D	E	F	
0800	1000	3 or 4	90	160	95 to 145	140	110	430
	5	90	160	95 to 145	140	110	430	
1000	1350	3 or 4	100	170	105 to 155	160	130	550
	5	120	190	105 to 155	160	130	550	
1250	1600	3 or 4	100	170	115 to 165	180	150	550
	5	120	190	115 to 165	180	150	550	
1600	2000	3 or 4	100	170	145 to 195	240	210	550
	5	120	190	145 to 195	240	210	550	
2000	2500	3 or 4	100	170	165 to 215	280	250	550
	5	120	190	165 to 215	280	250	550	
2500	3200	3 or 4	100	170	185 to 235	320	290	550
	5	120	190	185 to 235	320	290	550	
3200	4000	3 or 4	100	170	240 to 290	430	400	660
	5	120	190	240 to 290	430	400	660	
4000	5000	3 or 4	100	170	280 to 330	510	480	820
	5	120	190	280 to 330	510	480	820	
5000	6300	3 or 4	100	170	320 to 370	590	560	820
	5	120	190	320 to 370	590	560	820	

# Supports

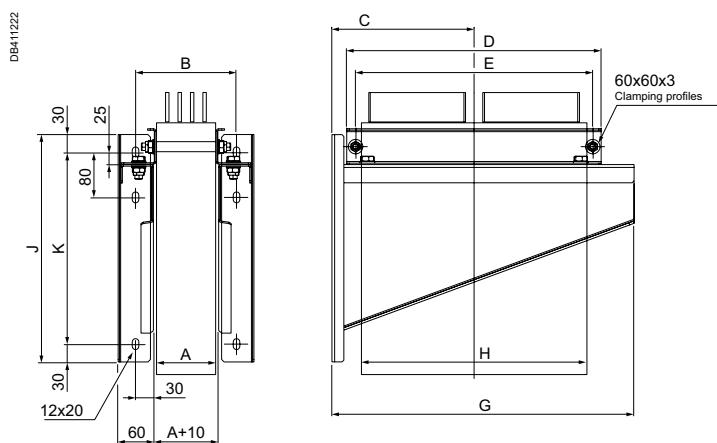
## ZA7 - Vertical wall fix point support

Sheet metals and bolts are made of stainless steel 316.



DB410941

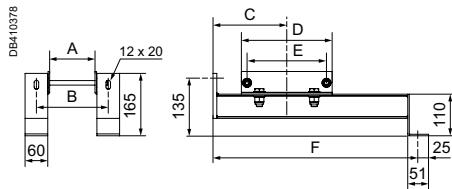
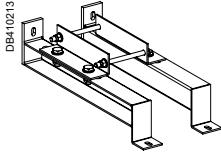
Type	Rating of the trunking (A)		Cat. no.	
	KRA	KRC	3, 4 cond.	5 cond.
Vertical wall fix point support	0800	1000	KRB0090ZA47	KRB0090ZA57
	1000	1350	KRB0110ZA47	KRB0110ZA57
	1250	1600	KRB0130ZA47	KRB0130ZA57
	1600	2000	KRB0190ZA47	KRB0190ZA57
	2000	2500	KRB0230ZA47	KRB0230ZA57
	2500	3200	KRB0270ZA47	KRB0270ZA57
	3200	4000	KRB0380ZA47	KRB0380ZA57
	4000	5000	KRB0460ZA47	KRB0460ZA57
	5000	6300	KRB0540ZA47	KRB0540ZA57



Rating (A)	Nb of cond.	Dimensions (mm)	H	A	B	C	D	E	G	J	K	Nb of slots
KRA	KRC											
800	1000	3 or 4	90	90	160	90-145	140	110	235	220	160	2
		5	90	90	160	90-145	140	110	235	220	160	2
1000	1350	3 or 4	110	100	170	105-155	160	130	235	220	160	2
		5	110	120	190	105-155	160	130	235	220	160	2
1250	1600	3 or 4	130	100	170	115-165	180	150	235	220	160	2
		5	130	120	190	115-165	180	150	235	220	160	2
1600	2000	3 or 4	190	100	170	145-195	240	210	295	300	240	2
		5	190	120	190	145-195	240	210	295	300	240	2
2000	2500	3 or 4	230	100	170	165-215	280	250	380	300	240	2
		5	230	120	190	165-215	280	250	380	300	240	2
2500	3200	3 or 4	270	100	170	185-235	320	290	380	300	240	2
		5	270	120	190	185-235	320	290	380	300	240	2
3200	4000	3 or 4	380	100	170	240-290	430	400	490	380	320	3
		5	380	120	190	240-290	430	400	490	380	320	3
4000	5000	3 or 4	460	100	170	280-330	510	480	570	380	320	3
		5	460	120	190	280-330	510	480	570	380	320	3
5000	6300	3 or 4	540	100	170	320-370	590	560	650	380	320	3
		5	540	120	190	320-370	590	560	650	380	320	3

**ZA8 - Vertical floor fix point support**

Sheet metals and bolts are made of stainless steel 316.

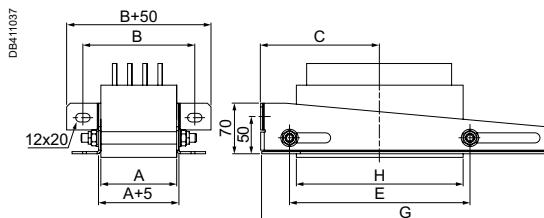
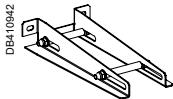


Type	Rating of the trunking (A)		Cat. no.		
Vertical floor fix point support	KRA	KRC	3, 4 cond.	5 cond.	
0800	1000	KRB0090ZA48	KRB0090ZA58		
1000	1350	KRB0110ZA48	KRB0110ZA58		
1250	1600	KRB0130ZA48	KRB0130ZA58		
1600	2000	KRB0190ZA48	KRB0190ZA58		
2000	2500	KRB0230ZA48	KRB0230ZA58		
2500	3200	KRB0270ZA48	KRB0270ZA58		
3200	4000	KRB0380ZA48	KRB0380ZA58		
4000	5000	KRB0460ZA48	KRB0460ZA58		
5000	6300	KRB0540ZA48	KRB0540ZA58		

Rating (A)	Nb of cond.		Dimensions (mm)						
	KRA	KRC	H	A	B	C	D	E	F
0800	3 or 4	90	90	160	95 to 145	140	110	430	
	5	90	90	160	95 to 145	140	110	430	
1000	3 or 4	110	100	170	105 to 155	160	130	550	
	5	110	120	190	105 to 155	160	130	550	
1250	3 or 4	130	100	170	115 to 165	180	150	550	
	5	130	120	190	115 to 165	180	150	550	
1600	3 or 4	190	100	170	145 to 195	240	210	550	
	5	190	120	190	145 to 195	240	210	550	
2000	3 or 4	230	100	170	165 to 215	280	250	550	
	5	230	120	190	165 to 215	280	250	550	
2500	3 or 4	270	100	170	185 to 235	320	290	550	
	5	270	120	190	185 to 235	320	290	550	
3200	3 or 4	380	100	170	240 to 290	430	400	660	
	5	380	120	190	240 to 290	430	400	660	
4000	3 or 4	460	100	170	280 to 330	510	480	820	
	5	460	120	190	280 to 330	510	480	820	
5000	3 or 4	540	100	170	320 to 370	590	560	820	
	5	540	120	190	320 to 370	590	560	820	

**ZA9 - Vertical wall guiding support**

Sheet metals and bolts are made of stainless steel 316.



Type	Rating of the trunking (A)		Cat. no.				
	KRA	KRC	3, 4 cond.	5 cond.			
Vertical wall guiding support	0800	1000	KRB0090ZA49	KRB0090ZA59			
	1000	1350	KRB0110ZA49	KRB0110ZA59			
	1250	1600	KRB0130ZA49	KRB0130ZA59			
	1600	2000	KRB0190ZA49	KRB0190ZA59			
	2000	2500	KRB0230ZA49	KRB0230ZA59			
	2500	3200	KRB0270ZA49	KRB0270ZA59			
	3200	4000	KRB0380ZA49	KRB0380ZA59			
	4000	5000	KRB0460ZA49	KRB0460ZA59			
	5000	6300	KRB0540ZA49	KRB0540ZA59			

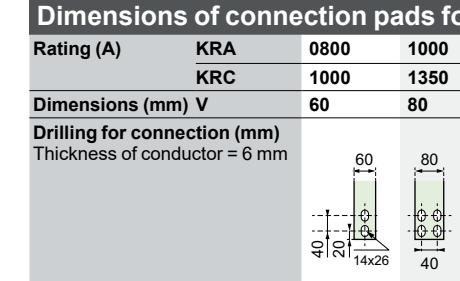
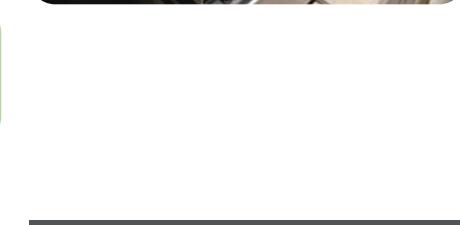
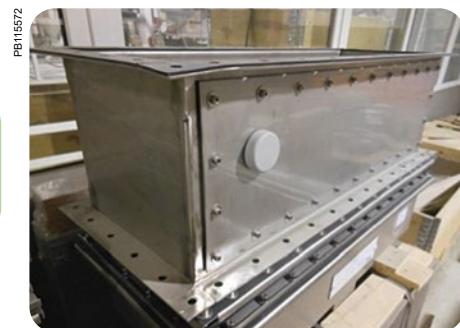
Rating (A)	Nb of cond.		Dimensions (mm)					
	KRA	KRC	H	A	B	C	E	G
800	3 or 4	90	90	135	90-145	110	220	
	5	90	90	135	90-145	110	220	
1000	3 or 4	110	100	155	105-155	130	280	
	5	110	120	175	105-155	130	280	
1250	3 or 4	130	100	155	115-165	150	280	
	5	130	120	175	115-165	150	280	
1600	3 or 4	190	100	155	145-195	210	320	
	5	190	120	175	145-195	210	320	
2000	3 or 4	230	100	155	165-215	250	400	
	5	230	120	175	165-215	250	400	
2500	3 or 4	270	100	155	185-235	290	400	
	5	270	120	175	185-235	290	400	
3200	3 or 4	380	100	155	240-290	400	510	
	5	380	120	175	240-290	400	510	
4000	3 or 4	460	100	155	280-330	480	590	
	5	460	120	175	280-330	480	590	
5000	3 or 4	540	100	155	320-370	560	670	
	5	540	120	175	320-370	560	670	

# Catalogue numbers and dimensions

## Protective flanges and covers

### How to connect Canalis KR?

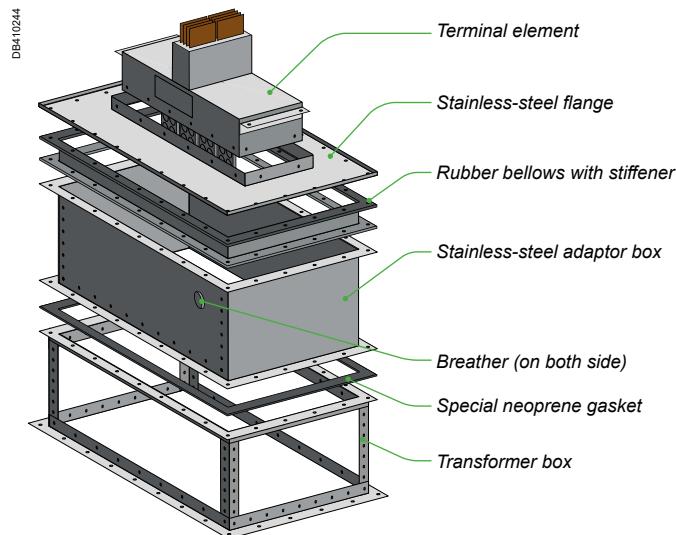
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### Transformer / switchboard connection units

End feed units connect lines to transformers, switchboards, generators, ups, etc., both mechanically and electrically.

The mechanical connection is possible with assembly flange using boxes, adapter flanges, sealing's and/or bellows in accordance with the project need.



All flanges and boxes according project specifications. Flanges and boxes are made from SS316 / 4 mm.

Adapter boxes and transformer boxes are equipped with breathers on two sides. Heaters with hygrostats and thermostats on request.

#### Dimensions of connection pads for standard end feed units ER•1 and EL•1

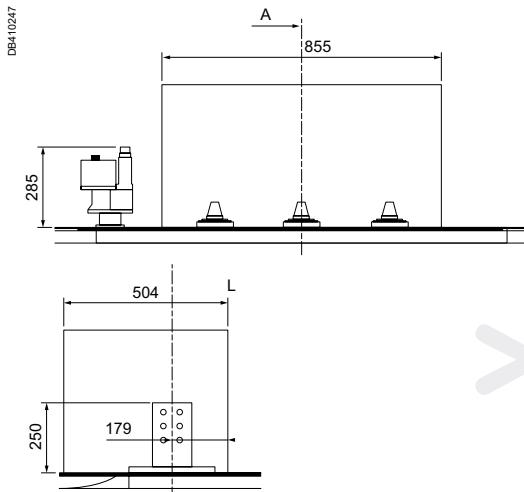
Rating (A)	KRA	0800	1000	1250	1600	2000	2500	3200	4000	5000
	KRC	1000	1350	1600	2000	2500	3200	4000	5000	6300
Dimensions (mm) V		60	80	100	160	200	240	350	430	510
Drilling for connection (mm)										
Thickness of conductor = 6 mm		60	80	100	160	200	240	350	430	510

#### Possible terminal width (V) and thickness (T) for made to measure feed units only

Rating (A)		Bars width (V)								
KRA	KRC	40	50	60	80	100	120	160	200	
0800	1000	12	10	6						
1000	1350		20	10	10					
1250	1600		20	20	10	10				
1600	2000			20	20	10	10			
2000	2500				20	20	20			
2500	3200					30	20	10	10	
3200	4000					40	30	20	20	
4000	5000					50	40	30	20	
5000	6300						50	40	30	

# Catalogue numbers and dimensions

## Protective flanges and covers



## How to order?

## Example:

Protective cover dimensions for an end feed unit KRC3200EL44 connected to a transformer box

- Distance between bars = 170 mm
  - Bars wide = 120 mm
  - High = 300 mm
  - $X = 170 + 170 + 170 + 120 + 100 = 730 \text{ mm}$
  - $Y = V + 84 = 120 + 84 = 224 \text{ mm}$
  - M = 300 mm

- Dimensions from the transformer box are  
A = 504 - 179 = 325, B = 179, C = 855 / 2 = 427.5, D = 855 / 2 = 427.5  
E = 52, F = 100, G = 5, H = 27.5, I = 100, J = 9, K = 12

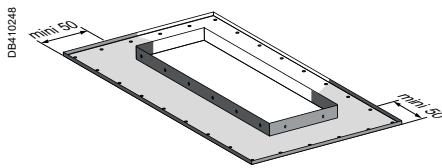
KRB0020CR3

**A = 325, B = 179, C = 427, D = 428, E = 52, F = 100, G = 5, H = 27,  
I = 100, J = 9, K = 12, X = 730, Y = 224, M = 300**

If drilling information (dimensions E to K) are not provided flanges or covers will be provided without fixing holes. Do not use decimal numbers:  
C = 427.5, D = 427.5 need to be registered C = 427, D = 428

## **CR1 - Protective flange IP55**

Sheet metals and bolts are made of stainless steel 316.  
Gaskets are made of neoprene.



Type	KRA	KRC	Cat. no.
Made to measure	0800 to 1250	1000 to 1600	KRB0010CR1
	1600 to 2500	2000 to 3200	KRB0020CR1
	3200 to 5000	4000 to 6300	KRB0030CR1

Dimension **X** is determined by the between centres dimensions (**P**, **Q**, **R**, **S**) and the thickness (**T**) or width (**V**) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
  - $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
  - $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

Data to use to determine Y of the flange.

<b>ER•1</b>	H
<b>ER•2</b>	H
<b>ER•3</b>	H
<b>ER•4</b>	V + 95
<b>ER•5</b>	Y + T + 40
<b>ER•6</b>	Y
<b>ER•7</b>	Y
<b>ER•8</b>	Y
<b>EL•1</b>	H
<b>EL•2</b>	H
<b>EL•3</b>	V + W + 40
<b>EL•4</b>	Y
<b>EL•5</b>	Y

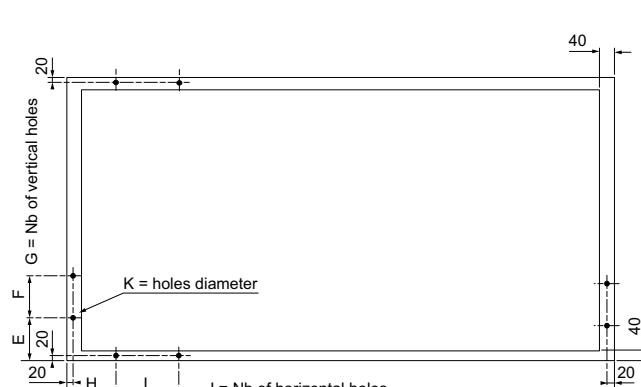
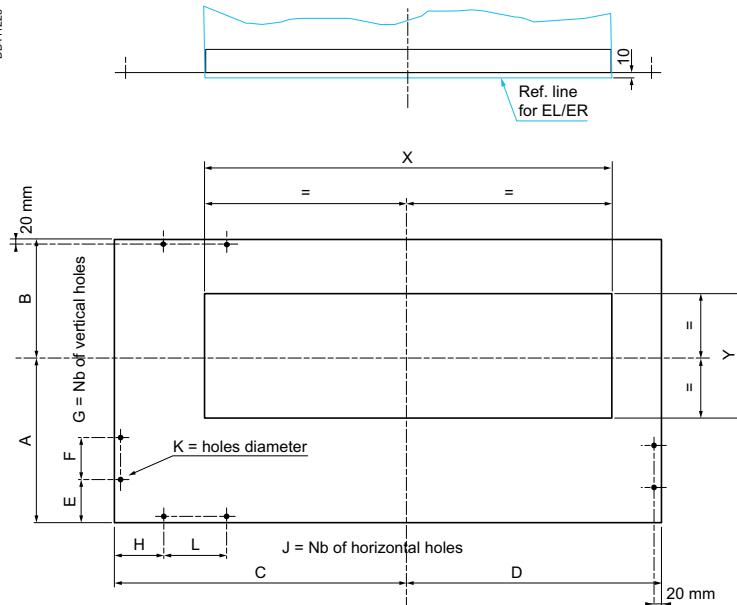
- A-Y/2 > 40 mm**
- B-Y/2 > 40 mm**
- C-X/2 > 40 mm**
- D-X/2 ≥ 40 mm**

#### Steps to define E, I, F and H:

- Steps to define F, L, E and H:**

  - 1 Define J and G: number of holes.
  - 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
  - 3 Keep the end holes at equidistant from ends,  $\dim{}$  should be multiple of 1 mm, which defines F and H

**NOTE:** If  $E < 25 \text{ mm}$  then  $H$  should be  $> 60 \text{ mm}$ ,  
and if  $H < 25 \text{ mm}$ , then  $E$  should be  $> 60 \text{ mm}$ .



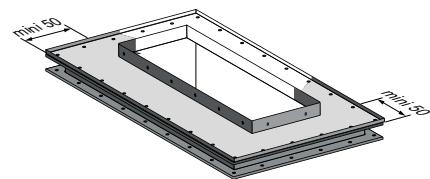
# Catalogue numbers and dimensions

## Protective flanges and covers

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### CR2 - Protective flange with bellows IP55

Sheet metals and bolts are made of stainless steel 316.  
Bellows and gasket are made of neoprene.



Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

**Data to use to determine Y of the flange.**

ER•1	H	EL•1	H
ER•2	H	EL•2	H
ER•3	H	EL•3	V + W + 40
ER•4	V + 95	EL•4	Y
ER•5	Y + T + 40	EL•5	Y

A-Y/2 > 40 mm

B-Y/2 > 40 mm

C-X/2 > 40 mm

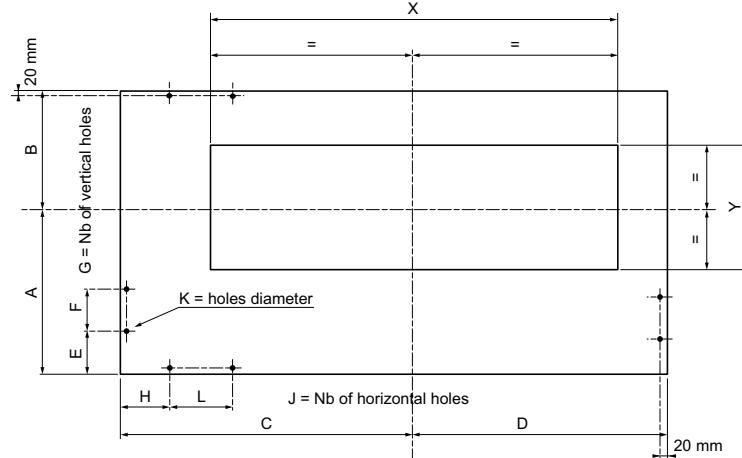
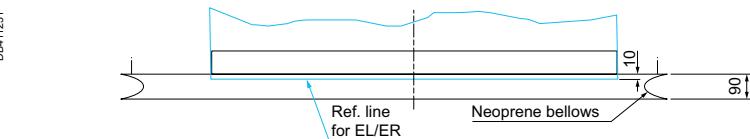
D-X/2 > 40 mm

**Steps to define F, L, E and H:**

- 1 Define J and G: number of holes.
- 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
- 3 Keep the end holes at equidistant from ends, dim. should be multiple of 1 mm, which defines E and H.

**NOTE:** If E < 25 mm then H should be > 60 mm, and if H < 25 mm, then E should be > 60 mm.

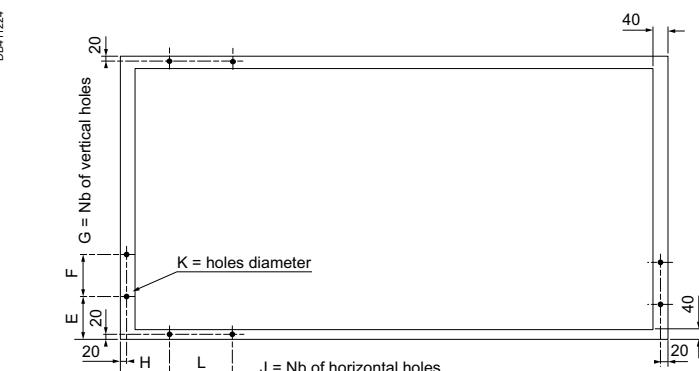
Type Made to measure	KRA	KRC	Cat. no.
	0800 to 1250	1000 to 1600	KRB0010CR2
	1600 to 2500	2000 to 3200	KRB0020CR2
	3200 to 5000	4000 to 6300	KRB0030CR2



K = diameter of holes = diameter of screws + 4 mm.

Rating (A)		Dimensions (mm)							
KRA	KRC	A	B	With A + B max	C	D	With C + D max	M	N
800	1000	95 to 505	95 to 505	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
1000	1350	105 to 495	105 to 495	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
1250	1600	115 to 485	105 to 495	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
1600	2000	145 to 455	145 to 455	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
2000	2500	165 to 435	165 to 435	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
2500	3200	185 to 415	185 to 415	600	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
3200	4000	240 to 460	240 to 460	700	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
4000	5000	280 to 420	280 to 420	700	200 to 1100	200 to 1100	1300	100 to 350	100 to 400
5000	6300	320 to 380	320 to 380	700	200 to 1100	200 to 1100	1300	100 to 350	100 to 400

**NOTE:** If M and N is less than 250 then breather will be assembled on side sheet of box.

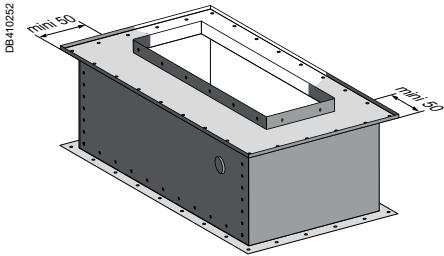


# Catalogue numbers and dimensions

## Protective flanges and covers

### CR3 - Protective cover IP55

Sheet metals and bolts are made of stainless steel 316.  
Bellows and gasket are made of neoprene.



Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

**Data to use to determine Y of the cover.**

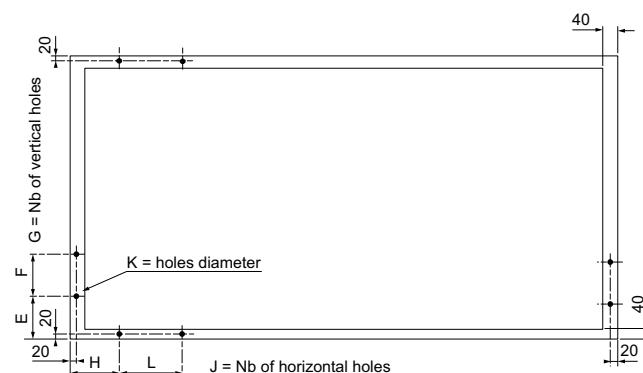
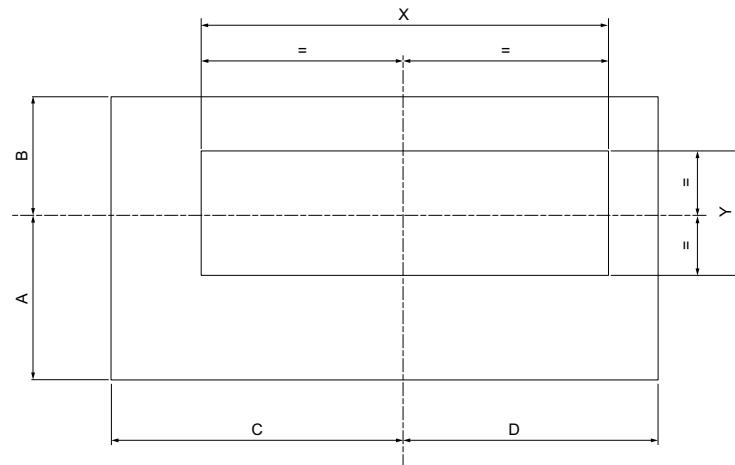
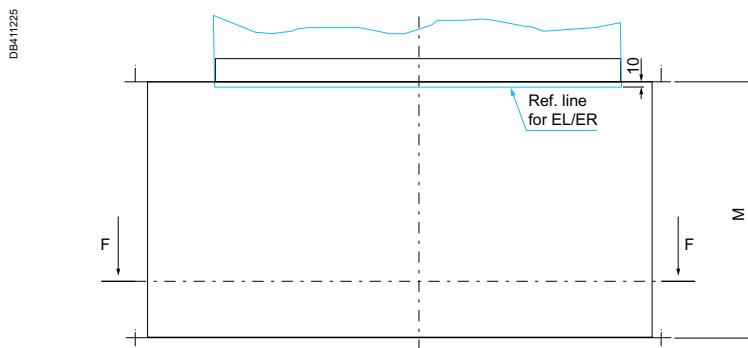
ER•1	H	EL•1	H
ER•2	H	EL•2	H
ER•3	H	EL•3	V + W + 40
ER•4	V + 95	EL•4	Y
ER•5	Y + T + 40	EL•5	Y
ER•6	Y		
ER•7	Y		
ER•8	Y		
A-Y/2 > 40 mm			
B-Y/2 > 40 mm			
C-X/2 > 40 mm			
D-X/2 > 40 mm			

**Steps to define F, L, E and H:**

- 1 Define J and G: number of holes.
- 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
- 3 Keep the end holes at equidistant from ends, dim. should be multiple of 1 mm, which defines E and H.

**NOTE:** If  $E < 25$  mm then  $H$  should be  $> 60$  mm,  
and if  $H < 25$  mm, then  $E$  should be  $> 60$  mm.

Type Made to measure	KRA	KRC	Cat. no.
	0800 to 1250	1000 to 1600	KRB0010CR3
	1600 to 2500	2000 to 3200	KRB0020CR3
	3200 to 5000	4000 to 6300	KRB0030CR3



$K = \text{diameter of holes} = \text{diameter of screws} + 4$  mm.

**NOTE:** For maximum height of protective covers refer to CR2 protective flange with bellows IP55 table.

# Catalogue numbers and dimensions

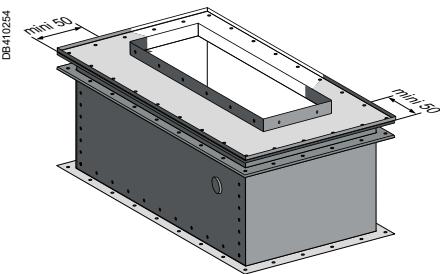
## Protective flanges and covers

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A

### CR4 - Protective cover with bellows IP55

Sheet metals and bolts are made of stainless steel 316.  
Bellows and gasket are made of neoprene.



B

Dimension X is determined by the between centres dimensions (**P, Q, R, S**) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

C

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

#### Data to use to determine Y of the cover.

<b>ER•1</b>	H	<b>EL•1</b>	H
<b>ER•2</b>	H	<b>EL•2</b>	H
<b>ER•3</b>	H	<b>EL•3</b>	V + W + 40
<b>ER•4</b>	V + 95	<b>EL•4</b>	Y
<b>ER•5</b>	Y + T + 40	<b>EL•5</b>	Y
<b>ER•6</b>	Y		
<b>ER•7</b>	Y		
<b>ER•8</b>	Y		
<b>A-Y/2 &gt; 40 mm</b>			
<b>B-Y/2 &gt; 40 mm</b>			
<b>C-X/2 &gt; 40 mm</b>			
<b>D-X/2 &gt; 40 mm</b>			

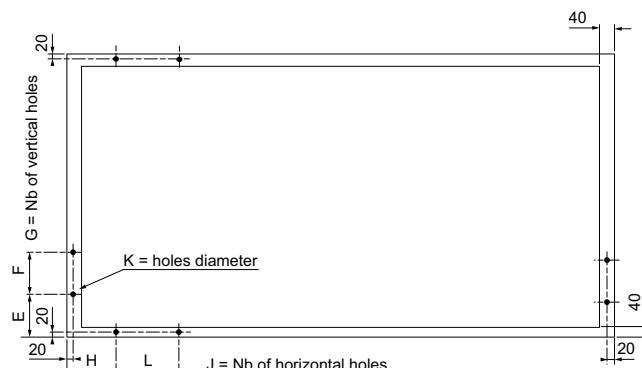
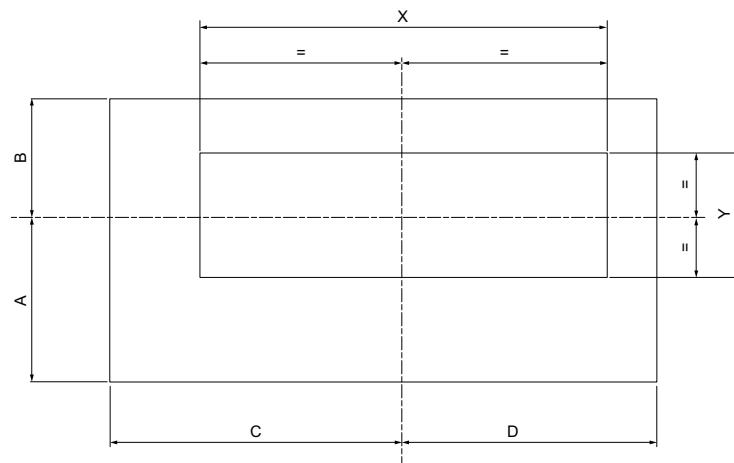
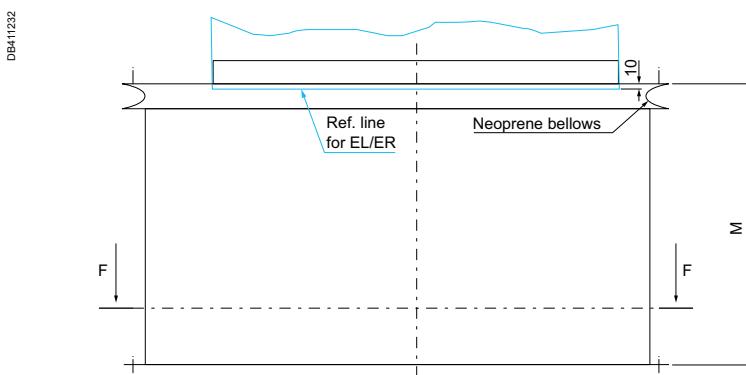
D

#### Steps to define F, L, E and H:

- 1 Define J and G: number of holes.
- 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
- 3 Keep the end holes at equidistant from ends, dim. should be multiple of 1 mm, which defines E and H.

*NOTE: If E < 25 mm then H should be > 60 mm, and if H < 25 mm, then E should be > 60 mm.*

Type Made to measure	KRA	KRC	Cat. no.
	0800 to 1250	1000 to 1600	<b>KRB0010CR4</b>
	1600 to 2500	2000 to 3200	<b>KRB0020CR4</b>
	3200 to 5000	4000 to 6300	<b>KRB0030CR4</b>



$K = \text{diameter of holes} = \text{diameter of screws} + 4 \text{ mm.}$

*NOTE: For maximum height of protective covers refer to CR2 protective flange with bellows IP55 table.*

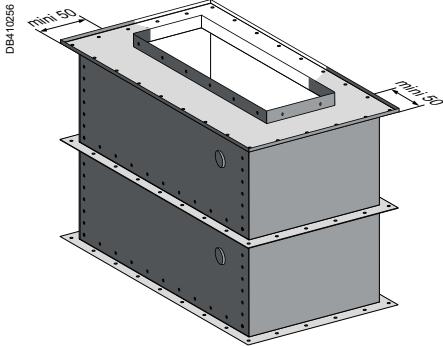
# Catalogue numbers and dimensions

## Protective flanges and covers

### CR5 - Protective cover with extra transformer box IP55

To allow a future exchange of transformer, bar bushings have to be covered by a separate box. If the transformer is not delivered with its own box, this reference with the extra box has to be used.

Sheet metals and bolts are made of stainless steel 316. Bellows and gasket are made of neoprene.



Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

Data to use to determine Y of the cover.

ER•1	H
ER•2	H
ER•3	H
ER•4	V + 95
ER•5	Y + T + 40
ER•6	Y
ER•7	Y
ER•8	Y
A-Y/2 > 40 mm	
B-Y/2 > 40 mm	
C-X/2 > 40 mm	
D-X/2 > 40 mm	

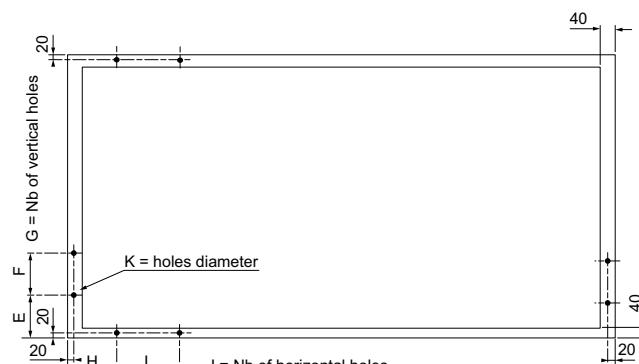
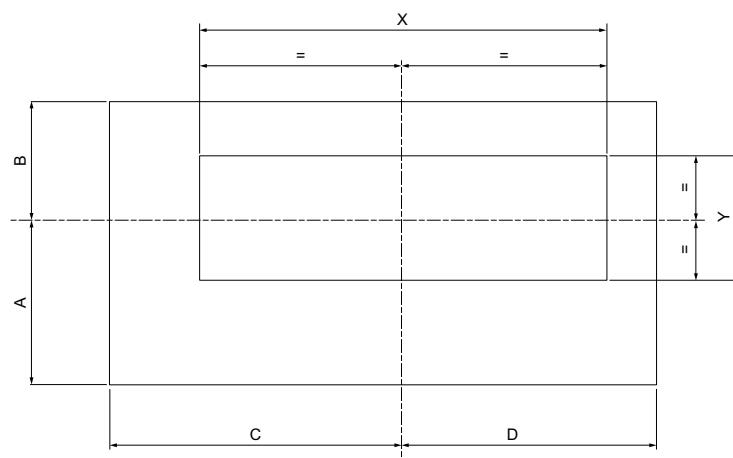
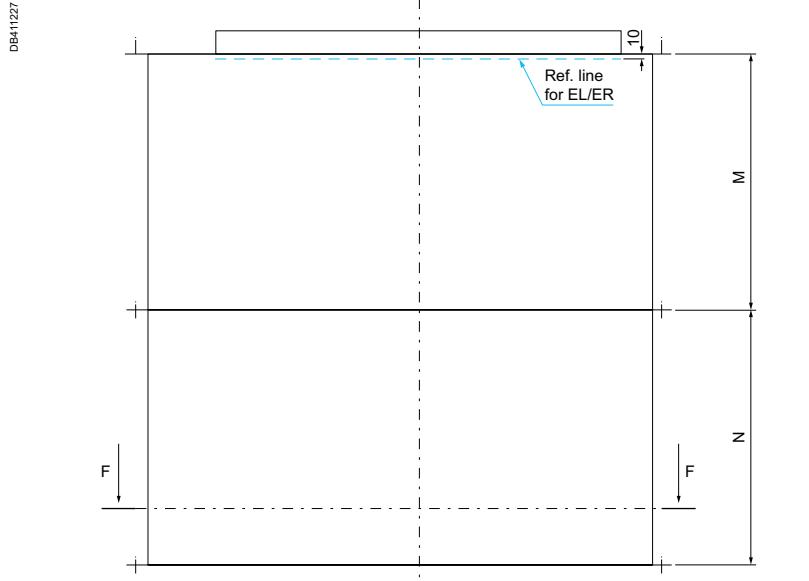
EL•1	H
EL•2	H
EL•3	V + W + 40
EL•4	Y
EL•5	Y

#### Steps to define F, L, E and H:

- 1 Define J and G: number of holes.
- 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
- 3 Keep the end holes at equidistant from ends, dim. should be multiple of 1 mm, which defines E and H.

NOTE: If  $E < 25$  mm then  $H$  should be  $> 60$  mm, and if  $H < 25$  mm, then  $E$  should be  $> 60$  mm.

Type Made to measure	KRA	KRC	Cat. no.
0800 to 1250	1000 to 1600	<b>KRB0010CR5</b>	
1600 to 2500	2000 to 3200	<b>KRB0020CR5</b>	
3200 to 5000	4000 to 6300	<b>KRB0030CR5</b>	



NOTE: For maximum height of protective covers refer CR2 protective flange with bellows IP55 table.

# Catalogue numbers and dimensions

## Protective flanges and covers

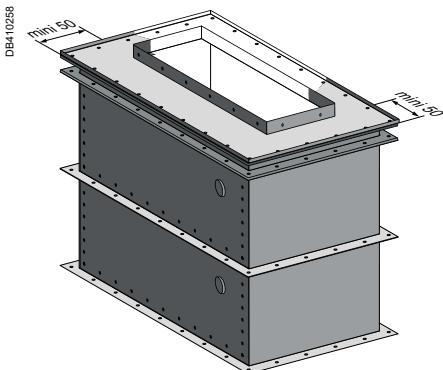
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A

### CR6 - Protective cover with extra transformer box and bellows IP55

To allow a future exchange of transformer, bar bushings have to be covered by a separate box. If the transformer is not delivered with its own box, this reference with the extra box has to be used.

Sheet metals and bolts are made of stainless steel 316. Bellows and gasket are made of neoprene.



Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

#### Data to use to determine Y of the cover.

<b>ER•1</b>	H
<b>ER•2</b>	H
<b>ER•3</b>	H
<b>ER•4</b>	V + 95
<b>ER•5</b>	Y + T + 40
<b>ER•6</b>	Y
<b>ER•7</b>	Y
<b>ER•8</b>	Y
<b>A-Y/2 &gt; 40 mm</b>	
<b>B-Y/2 &gt; 40 mm</b>	
<b>C-X/2 &gt; 40 mm</b>	
<b>D-X/2 &gt; 40 mm</b>	

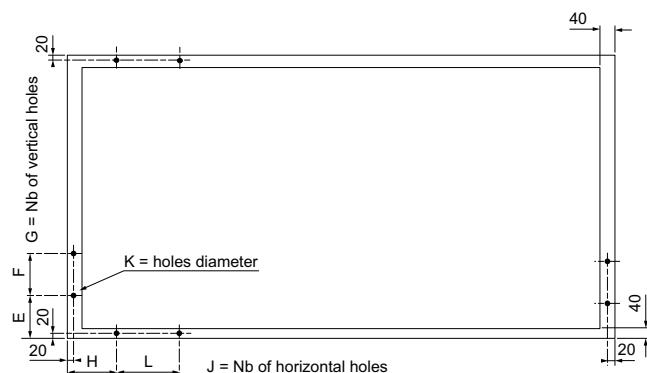
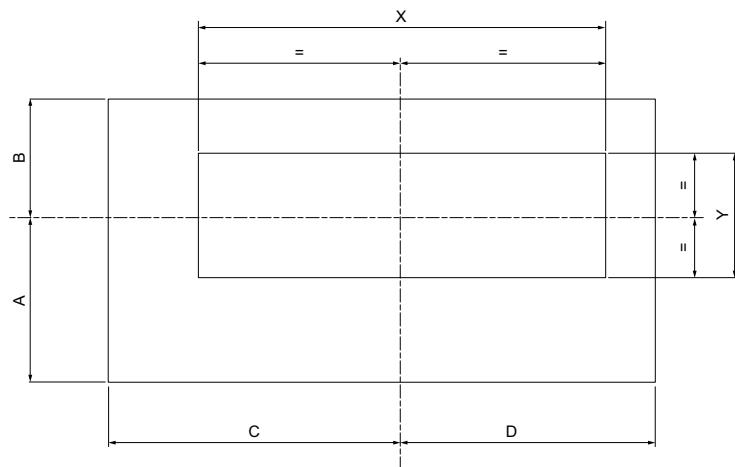
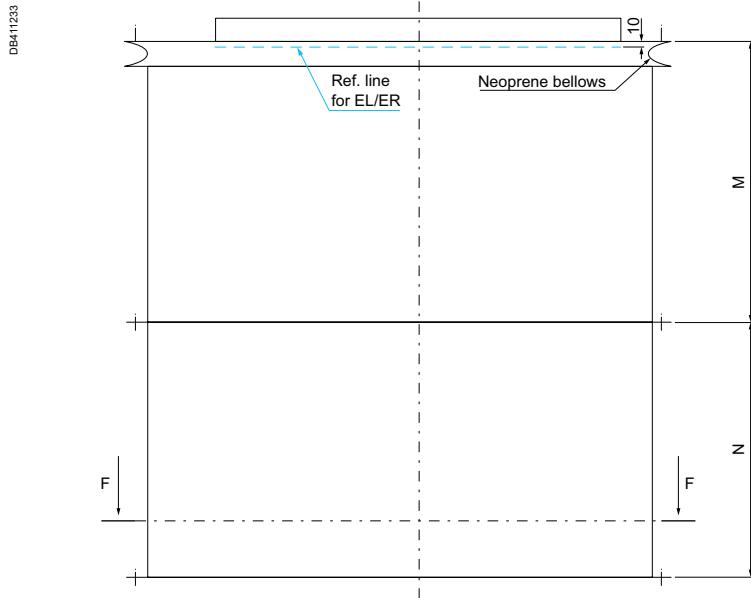
<b>EL•1</b>	H
<b>EL•2</b>	H
<b>EL•3</b>	V + W + 40
<b>EL•4</b>	Y
<b>EL•5</b>	Y

#### Steps to define F, L, E and H:

- 1 Define J and G: number of holes.
- 2 Adjust F and L such a way that it should be in multiple of 1 mm (integer).
- 3 Keep the end holes at equidistant from ends, dim. should be multiple of 1 mm, which defines E and H.

NOTE: If  $E < 25$  mm then  $H$  should be  $> 60$  mm, and if  $H < 25$  mm, then  $E$  should be  $> 60$  mm.

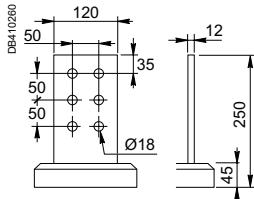
Type Made to measure	KRA	KRC	Cat. no.
	0800 to 1250	1000 to 1600	<b>KRB0010CR6</b>
	1600 to 2500	2000 to 3200	<b>KRB0020CR6</b>
	3200 to 5000	4000 to 6300	<b>KRB0030CR6</b>



NOTE: For maximum height of protective covers refer CR2 protective flange with bellows IP55 table.

# Catalogue numbers and dimensions

## Connection accessories



### How to order?

#### Example:

Connect an end feed unit KRC3200ER41 to a transformer bushing

- Length of the link: 400 mm
- Drilling dimensions of the bushing: see picture
- Width of the links: 120 mm
- Surface treatment: Tinned copper.

**KRB0120YC205T**

**L = 400, A = 50, B = 25, C = 25, D = 50, E = 3, F = 2**

A

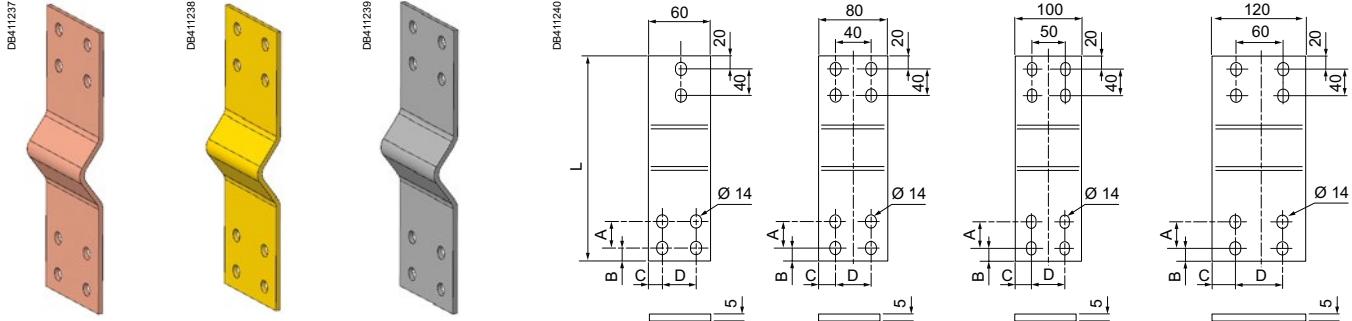
B

C

D

### YC2 - Made to measure copper flexible links

Type	Surface treatment	Width (mm)	Thickness (mm)	Length (mm)	Cross section (mm <sup>2</sup> )	Cat. no.	Weight (kg)
<b>Made to measure</b>	Bare copper	60	5	310 to 500	300	<b>KRB0060YC205B</b>	1.3
		80	5	310 to 500	400	<b>KRB0080YC205B</b>	1.8
		100	5	310 to 500	500	<b>KRB0100YC205B</b>	2.2
		120	5	310 to 500	600	<b>KRB0120YC205B</b>	2.7
	Tinned copper	60	5	310 to 500	300	<b>KRB0060YC205T</b>	1.3
		80	5	310 to 500	400	<b>KRB0080YC205T</b>	1.8
		100	5	310 to 500	500	<b>KRB0100YC205T</b>	2.2
		120	5	310 to 500	600	<b>KRB0120YC205T</b>	2.7
	Silvered copper	60	5	310 to 500	300	<b>KRB0060YC205S</b>	1.3
		80	5	310 to 500	400	<b>KRB0080YC205S</b>	1.8
		100	5	310 to 500	500	<b>KRB0100YC205S</b>	2.2
		120	5	310 to 500	600	<b>KRB0120YC205S</b>	2.7



**KRB\*\*\*\*YC205B    KRB\*\*\*\*YC205T    KRB\*\*\*\*YC205S**  
Bare copper      Tinned copper      Silvered copper

**KRB0060YC205•    KRB0080YC205•    KRB0100YC205•    KRB0120YC205•**

E = Nb of vertical holes  
F = Nb of horizontal holes

<b>L</b>	<b>D</b>
<b>A</b>	<b>E</b>
<b>B</b>	<b>F</b>
<b>C</b>	

**NOTE:** The hole position 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.

If the data on the number and position of the holes are not filled, then the parts will be delivered without drilling concerned.

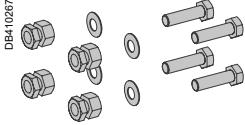
# Catalogue numbers and dimensions

## Connection accessories

www.se.com

A

### YB1 - Bolt set



Type	Screw dimensions	Cat. no.	Weight (kg)
Set of 8 stainless steel M12 bolt including screws, nuts and washers	M12-40	KRB0040YB112	0.6
	M12-50	KRB0050YB112	0.7
	M12-60	KRB0060YB112	0.8
	M12-70	KRB0070YB112	0.8
	M12-80	KRB0080YB112	0.9
	M12-100	KRB0100YB112	1.0
	M12-120	KRB0120YB112	1.2

B



C

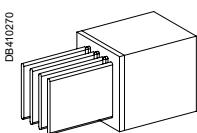
### SJ - Sample junction



Type	Rating (A)	Cat. no.	Weight (kg)
1 unit per reference	KRA1000	KRA1000SJ41	9
	KRC1350	KRC1350SJ41	11

D

### SE - Sample extremity



Type	Rating (A)	Cat. no.	Weight (kg)
1 unit per reference	KRA1000	KRA1000SE41	4
	KRC1350	KRC1350SE41	5

# Catalogue numbers and dimensions

## Size and number of connection parts

- 1- Identify the width (V) of the end feed unit pad to connect
- 2- Use the table 1 to select the correct reference of links to use
- 3- In the table 2 find the number of links per phase
- 4- Identify the thickness (T) of the end feed unit pad to connect
- 5- Select the length of the bolt set

Terminal pads (V)								
40	50	60	80	100	120	160	200	
Connection links								
KRB0060YC•••••	KRB0080YC•••••	KRB0100YC•••••	KRB0120YC•••••	KRB0080YC•••••	KRB0100YC•••••			

Terminal pads (V)			
240	350	430	510
Connection links			
KRB0120YC•••••	KRB0080YC•••••	KRB0100YC•••••	KRB0120YC•••••

Number of links per phase								
Rating (A) Maximum density of current = 1.4 A/mm <sup>2</sup>								
	KRB0060YC•05•	KRB0060YC•10•	KRB0080YC•05•	KRB0080YC•10•	KRB0100YC•05•	KRB0100YC•10•	KRB0120YC•05•	KRB0120YC•10•
60X5 300 mm <sup>2</sup>	60X10 600 mm <sup>2</sup>	80X5 400 mm <sup>2</sup>	80X10 800 mm <sup>2</sup>	100X5 500 mm <sup>2</sup>	100X10 1000 mm <sup>2</sup>	120X5 600 mm <sup>2</sup>	120X10 1200 mm <sup>2</sup>	
KRA0800	2	1						
KRA1000	3	2	2	1				
KRA1250	3	2	3	2	2	1		
KRA1600	4	2	3	2	3	2	2	1
KRA2000			4	2	3	2	3	2
KRA2500				5	3	4	3	2
KRA3200				6	3	5	4	2
KRA4000				8	4	6	3	3
KRA5000				9	5	8	4	3
KRC1000	3	2						
KRC1350	4	2	3	2				
KRC1600	4	2	3	2	3	2		
KRC2000	5	3	4	2	3	2	3	2
KRC2500			5	3	4	2	3	2
KRC3200			6	3	5	3	4	2
KRC4000			8	4	6	3	5	3
KRC5000			9	5	8	4	6	3
KRC6300			12	6	10	5	8	4

A

B

C

D

# Design guide

## Characteristics

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C

# Characteristics

## Canalis KRA

### Aluminium conductors

A

General characteristics	Symbol	Unit	Busbar trunking rating										
			KRA0800	KRA1000	KRA1250	KRA1600	KRA2000	KRA2500	KRA3200	KRA4000	KRA5000		
Compliance with standards			IEC 61439-1 and IEC 61439-6										
Protection degree	IP		68										
Shock resistance	IK		10										
Nominal rated current at an ambient temperature of 35°C	I <sub>nc</sub>	A	800	1000	1250	1600	2000	2500	3200	4000	5000		
Rated insulation Voltage	U <sub>i</sub>	V	1000										
Rated operation Voltage	U <sub>e</sub>	V	1000										
Operating frequency	f	Hz	50 / 60 (for 60 to 400 Hz AC or for DC, consult us)										

NOTE: For fire rated busway need to consider one rating higher.

B

**Short circuit current withstand**

Allowable rated short time withstand current (t=1s)	I <sub>cw</sub>	kA	27	27	53	53	65	80	100	100	100
Allowable rated peak current	I <sub>pk</sub>	kA	56	56	117	117	143	176	220	220	220
Maximum thermal stress I <sup>2</sup> t (t=1s)	I <sup>2</sup> t	A <sup>2</sup> .s10 <sup>6</sup>	729	729	2809	2809	4225	6400	10000	10000	10000

C

**Phase Conductors**

Average resistance at an ambient temperature of 20°C	R <sub>20</sub>	mΩ/m	0.078	0.060	0.048	0.030	0.023	0.020	0.015	0.012	0.010
Average resistance at I <sub>nc</sub> and at 35°C	R <sub>1</sub>	mΩ/m	0.095	0.073	0.058	0.035	0.029	0.025	0.019	0.015	0.013
Average reactance at I <sub>nc</sub> and at 35°C and at 50 Hz	X <sub>1</sub>	mΩ/m	0.026	0.053	0.050	0.046	0.030	0.029	0.024	0.025	0.022
Average impedance at I <sub>nc</sub> and at 35°C and at 50 Hz	Z <sub>1</sub>	mΩ/m	0.098	0.091	0.077	0.058	0.042	0.038	0.030	0.029	0.026

D

**Fault loop characteristics**

Symmetrical components method												
Ph/PE at 20°C	Average resistance	R <sub>0 ph/PE</sub>	mΩ/m	0.254	0.197	0.157	0.096	0.079	0.067	0.050	0.040	0.033
	Average reactance	X <sub>0 ph/PE</sub>	mΩ/m	0.422	0.349	0.280	0.218	0.209	0.201	0.194	0.191	0.165
	Average impedance	Z <sub>0 ph/PE</sub>	mΩ/m	0.493	0.401	0.321	0.238	0.224	0.212	0.201	0.195	0.169

**Impedance method**

At 20°C	Average resistance	Ph/Ph	R <sub>b0 ph/ph</sub>	mΩ/m	0.156	0.123	0.096	0.060	0.048	0.040	0.029	0.021	0.018
		Ph/PE	R <sub>b0 ph/PE</sub>	mΩ/m	0.156	0.123	0.096	0.060	0.048	0.040	0.029	0.021	0.018
At Inc and at 35°C	Average resistance	Ph/Ph	R <sub>b1 ph/ph</sub>	mΩ/m	0.191	0.148	0.118	0.072	0.059	0.049	0.036	0.027	0.024
		Ph/PE	R <sub>b1 ph/PE</sub>	mΩ/m	0.191	0.148	0.118	0.072	0.059	0.049	0.036	0.027	0.024
At Inc and at 35°C and at 50 Hz	Average reactance	Ph/Ph	X <sub>b ph/ph</sub>	mΩ/m	0.154	0.146	0.116	0.090	0.115	0.117	0.092	0.083	0.067
		Ph/PE	X <sub>b ph/PE</sub>	mΩ/m	0.154	0.146	0.116	0.090	0.115	0.117	0.092	0.083	0.067

**Other characteristics**

Voltage drop	Line-to-line voltage drop, in volts (V) per 100 metres and per amp (A) at 50 Hz with load concentrated at the end of a run. This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.										
--------------	---	--	--	--	--	--	--	--	--	--	--

For cos φ of	1		0.0166	0.0128	0.0102	0.0062	0.0050	0.0045	0.0033	0.0026	0.0023
	0.9		0.0169	0.0157	0.0130	0.0091	0.0069	0.0062	0.0048	0.0043	0.0038
	0.8		0.0160	0.0160	0.0134	0.0098	0.0072	0.0066	0.0051	0.0048	0.0042
	0.7		0.0149	0.0158	0.0133	0.0101	0.0074	0.0067	0.0053	0.0050	0.0044

**Average weight**

Bus duct total weight 3/4/5 conductors	kg/m	21/22/22	26/29/35	30/34/40	43/48/58	52/58/69	61/68/81	85/95/113	102/115/137	120/135/161
--	------	----------	----------	----------	----------	----------	----------	-----------	-------------	-------------

**Fire load value**

Fire Load	kWh/m	11.8	15.7	19.2	31.4	35	37.3	62.8	70.1	74.5
-----------	-------	------	------	------	------	----	------	------	------	------

**Radiated Magnetic field**

Radiated magnetic field strength 1 meter from the trunking	B	µT	8.79	12.42	14.68	17.30	22.10	27.94	37.09	44.03	58.44
--	---	----	------	-------	-------	-------	-------	-------	-------	-------	-------

# Design guide

## Characteristics

### Canalis KRC

#### Copper conductors

<b>General characteristics</b>	<b>Symbol</b>	<b>Unit</b>	<b>Busbar trunking rating</b>																			
			KRC1000	KRC1350	KRC1600	KRC2000	KRC2500	KRC3200	KRC4000	KRC5000	KRC6300											
Compliance with standards			IEC 61439-1 and IEC 61439-6																			
Protection degree	IP		68																			
Shock resistance	IK		10																			
Nominal rated current at an ambient temperature of 35°C	Inc	A	1000	1350	1600	2000	2500	3200	4000	5000	6300											
Rated insulation Voltage	Ui	V	1000V																			
Rated operation Voltage	Ue	V	1000V																			
Operating frequency	f	Hz	50 / 60 (for 60 to 400 Hz AC or for DC, consult us)																			
NOTE: For fire rated busway need to consider one rating higher.																						
<b>Short circuit current withstand</b>																						
Allowable rated short time withstand current (t=1s)	Icw	kA	38	38	65	80	80	100	100	125	125											
Allowable rated peak current	Ipk	kA	80	80	143	176	176	220	220	275	275											
Maximum thermal stress $I^2t$ (t=1s)	$I^2t$	$A^2 \cdot s \cdot 10^6$	1444	1444	4225	4225	6400	6400	10000	10000	10000											
<b>Phase Conductors</b>																						
Average resistance at an ambient temperature of 20°C	R <sub>20</sub>	mΩ/m	0.049	0.039	0.031	0.019	0.016	0.014	0.010	0.008	0.006											
Average resistance at Inc and at 35°C	R <sub>1</sub>	mΩ/m	0.060	0.048	0.039	0.024	0.019	0.018	0.013	0.010	0.008											
Average reactance at Inc and at 35°C and at 50 Hz	X <sub>1</sub>	mΩ/m	0.069	0.051	0.046	0.034	0.031	0.029	0.014	0.012	0.011											
Average impedance at Inc and at 35°C and at 50 Hz	Z <sub>1</sub>	mΩ/m	0.091	0.070	0.060	0.041	0.037	0.034	0.019	0.016	0.013											
<b>Fault loop characteristics</b>																						
<b>Symmetrical components method</b>																						
Ph/PE at 20°C	Average resistance	R <sub>0 ph/PE</sub>	mΩ/m	0.170	0.141	0.113	0.077	0.062	0.052	0.045	0.037	0.030										
	Average reactance	X <sub>0 ph/PE</sub>	mΩ/m	0.191	0.162	0.137	0.099	0.083	0.071	0.065	0.056	0.047										
	Average impedance	Z <sub>0 ph/PE</sub>	mΩ/m	0.256	0.214	0.177	0.125	0.104	0.088	0.079	0.067	0.056										
<b>Impedance method</b>																						
At 20°C	Average resistance	Ph/Ph	R <sub>b0 ph/ph</sub>	mΩ/m	0.095	0.076	0.058	0.038	0.030	0.023	0.017	0.014	0.010									
		Ph/PE	R <sub>b0 ph/PE</sub>	mΩ/m	0.095	0.076	0.058	0.038	0.030	0.023	0.017	0.014	0.010									
At Inc and at 35°C	Average resistance	Ph/Ph	R <sub>b1 ph/ph</sub>	mΩ/m	0.115	0.092	0.073	0.047	0.037	0.030	0.021	0.018	0.013									
		Ph/PE	R <sub>b1 ph/PE</sub>	mΩ/m	0.115	0.092	0.073	0.047	0.037	0.030	0.021	0.018	0.013									
At Inc and at 35°C and at 50 Hz	Average reactance	Ph/Ph	X <sub>b ph/ph</sub>	mΩ/m	0.158	0.135	0.114	0.083	0.070	0.059	0.052	0.044	0.038									
		Ph/PE	X <sub>b ph/PE</sub>	mΩ/m	0.158	0.135	0.114	0.083	0.070	0.059	0.052	0.044	0.038									
<b>Other characteristics</b>																						
Voltage drop	Line-to-line voltage drop, in volts (V) per 100 metres and per amp (A) at 50 Hz with load concentrated at the end of a run. This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.																					
For cos φ of		1		0.0104	0.0083	0.0068	0.0042	0.0033	0.0031	0.0023	0.0017	0.0014										
		0.9		0.0146	0.0113	0.0096	0.0063	0.0053	0.0050	0.0031	0.0025	0.0021										
		0.8		0.0155	0.0120	0.0102	0.0069	0.0059	0.0055	0.0033	0.0026	0.0023										
		0.7		0.0158	0.0121	0.0104	0.0071	0.0061	0.0058	0.0033	0.0027	0.0023										
<b>Average weight</b>																						
Bus duct total weight 3/4/5 conductors		kg/m	30/31/34	36/41/49	43/48/59	64/72/87	77/87/105	92/103/125	126/142/172	155/174/211	182/205/249											
<b>Fire load value</b>																						
Fire Load		kWh/m	11.8	18.7	22.8	27.5	32	36.7	55	64.1	73.3											
<b>Radiated Magnetic field</b>																						
Radiated magnetic field strength 1 meter from the trunking	B	µT	8.79	11.50	14.68	17.30	22.10	27.94	37.09	44.03	58.44											

# Characteristics

## Select the good product

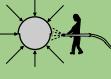
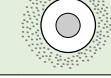
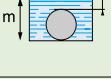
Verify that Canalis KR is the appropriate product for your applications:

	Standard applications	Risk of immersion	Risk of explosion (ATEX)	Chemical aggressions	Fire resistance needed
Indoor distribution	Canalis KT	Ask to your vendor			
Indoor transport	Canalis KT	Canalis KR	Canalis KR	Canalis KR	Canalis KR
Outdoor transport	Canalis KR	Canalis KR	Canalis KR	Canalis KR	-

### Degree of protection

- Canalis KT = IP55
- Canalis KR = IP68

Standard IEC 60529 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.

1 <sup>st</sup> characteristic numeral: corresponds to protection of equipment against penetration of solid objects and protection of persons against direct contact with live parts.		2 <sup>nd</sup> characteristic numeral: corresponds to protection of equipment against penetration of water with harmful effects.	
<b>Protection of equipment</b>		<b>Protection of persons</b>	
Dust protected (no harmful deposits).	Protected against direct contact with a 1 mm diameter wire.	<b>5</b> DD210018 	Protected against water jets in all directions. Test duration: 1 mn/m² casing <b>5</b> DD210010 
Dust tight.	Protected against direct contact with a 1 mm diameter wire.	<b>6</b> DD210019 	Protected against powerful jets of water and waves. <b>6</b> DD210011 
			Protected against the effects of temporary immersion. <b>7</b> DD210012 
			Protected against the effects of prolonged immersion under specified conditions. <b>8</b> DD210013 

### Behavior in event of fire

As required by the standards IEC61439-6, Canalis KR busbar trunking complies with:

#### Resistance to flame-propagation

The test is suitable for all types or sizes of BTU to characterize the resistance to flame propagation of the BTS in mounting and grouping conditions met in practice. The test shall be performed according to IEC 60332-3-10, with a flame application time of 40 min.

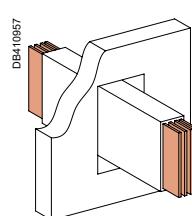
This performance is required by the busbar trunking standard IEC 61439-6. Canalis KR complies with requirement.

#### Fire resistance in building penetrations

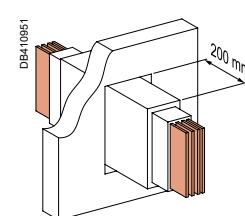
The test is suitable for fire barrier BTU designed to prevent the spread of fire through building penetration. The test shall be performed according to ISO 834-1 for fire resistance times of 60 min, 90 min, 120 min, 180 min or 240 min.

The trunking standard IEC 61439-6 requires manufacturer test this performance. Canalis KR has several time performances link to solution used.

Range	Solution	DIN 4102-9
KRA or KRC	Standard product	60 mn (S60)
	With external fire barrier kit (CF units)	120 mn (S120)



Standard product



Fire barrier kit (Promatec 200)

In addition of the IEC 61439-6 standard the conservation of the integrity of circuit can be required.

# Design guide

## Characteristics

### Fire rated Canalis KR ordering guidelines

#### Commercial reference selection

For fire rated busway, due to added insulation from promat, cross section is increased from 1 level.

Ratings are limited for KRA 4000 A maximum (not 5000 A) and for KRC 5000 A maximum (not 6300 A as in standard).

Order with same rated current regardless of standard or fire rated busway RU, FT, FP, FC. The delivered products will fit to the rating.

#### Guidelines to follow while selecting fire rated elements

- 1 Respective “Rated current  $I_n$ ” can be selected for fire rated straight length and flat elbows (valid for RU, FT, FP, FC).

*For more details, refer page 52.*

- 2 When selecting in the standard list of junctions, ensure to order an “higher” rating to get the adapted geometry.

*For example, for fire rated section, if need is  $I_n = 2000$  A; then order 2500 A junctions.*

- 3 Quantity of resin to order will be selected based on the rating of the junction.

*For more details, refer page 30.*

- 4 The mold selection is not dependent on rating, but on the geometry, so need to check for the height of the fire rated product “A”.

*For more details, refer “FM – fire rated casting mould” section on page 53.*

*NOTE: Order 1 mold per junction (not same quantity as standard KR). The mold will stay as it is part of the fire rated feature.*

- 5 For each “RU” Reducer, a metallic mold for fire rated width “A” is required.

*For more details, refer “RU-Reduction unit” section on page 52.*

# Characteristics

## Fire rated Canalis KR ordering guidelines

A

### Integrity of circuit in case of fire

In event of fire, electrical installations in buildings must continue to work to insure the evacuation of people and to allow fireman and rescue to be the most efficient. Alarm systems, emergency lightings, elevators, water pumps for sprinklers must remain operational for at least 30 minutes. Ventilation system Solution for safety stairways elevator shafts and the machine rooms of fire elevators must operate for at least 90 minutes.

B

The busbar trunking is often the main system to power these installations. To insure this mission the busbar trunking system must be fire resistant to conserve the integrity of circuits.

Canalis KR has been tested under fire conditions. The product is compliant with the international standard IEC 60331 and the German standard DIN 4102- 12.

Ranges	Solution	Standard	
		DIN 4102-12	IEC 60331
<b>KRA</b>	Only resin encapsulated units	Not tested	180 mn
	Resin + Promat encapsulated units (FT, FP, FC units)	90 mn (E90)	Not tested
<b>KRC</b>	Only resin encapsulated units	30 mn (E30)	180 mn
	Resin + Promat encapsulated units (FT, FP, FC units)	90 mn (E90)	Not tested

Elements with fire resistance performances (Code FT, FP, and FC) are encapsulated in a Promat sheath. The conductors of these units are oversized in order to take into account the lower thermal exchange due to Promat. Coeff 0,8. Canalis KR catalogue numbers system has been created to facilitate the use of fire resistant units.

Eg: Current need = 4000 Amps

Catalogue numbers for **not fire resistant** edgewise elbow: KRA4000LC430 / product cross section: 460 x 100

Catalogue number for **fire resistant** edgewise elbow: KRA4000FC430 / product cross section: 540 x 100

To start or end a fire resistant area a reduction unit will be used, eg: KRA4000RU4

C

D

### What is the difference between DIN4012-12 and IEC60331-21 standards?

The DIN4012-12 is the German standard used to describe the integrity of circuit of electrical cable systems up to 1kV in case of fire. This standard also clearly describes the test for busbar trunking systems. The sample is tested in an oven with a temperature of 1000°C. Only busbar trunking systems with fire protection construction panels like Promat can withstand the heat from all sides for a period of 90 minutes.

The IEC60331-21 is the international standard used for cables and insulated lines under fire conditions. Busbar trunking systems are not described in this standard however the test is performed using the same protocol as cables. The product is heated at the bottom with a temperature of approximately 750°C or 830°C by a gas flame for a defined period of time. This test performed in an open room has less impact on the product than the German standard.

# Characteristics

Calculating nominal current ( $I_n$ ) by applying a derating coefficient

## Allowable current as a function of ambient temperature

Canalis KR 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. Under this value the acceptable current can be higher.

$k_1$  = ambient temperature derating coefficient.

Max. ambient temperature °C	20	25	30	35	40	45	50	55	60
24h ambient temperature °C	15	20	25	30	35	40	45	50	55
Correction factor	1.20	1.15	1.10	1.05	1.00	0.96	0.90	0.89	0.84

Canalis KR can be used at ambient temperatures of minus 60°C to plus 60°C, without any effect on the mechanical properties of the system.

Canalis KR is waterproof over the entire run (IP68) and therefore does not require any additional protection against water.

When used outdoor within an average temperature of 45°C or above, additional sun shield canopy to prevent a temperature increase due to radiation from sun rays is required.

## Correction factor in function of level above sea

Canalis KR can be used in areas with high level above sea.

Table 2 indicates Multiplying Factor for rated current with respect to the above sea level.

$k_2$  = altitude derating coefficient

Level above sea (m)	0 to 999	1000 to 1999	2000 to 2999	3000 to 3999	above 4000
Indoor installation	1	1	0.99	0.96	0.90
Outdoor installation	1	0.98	0.94	0.89	0.83

Example:

Canalis KRA1250 A installed outdoor at 2556 m of altitude with a max ambient temperature of 45°C

$$I_n = I_b \times k_1 \times k_2 = I_z$$

$$I_n = 1250 \times 0.96 \times 0.94 = 1129 \text{ A}$$

# Characteristics

Calculating nominal current ( $I_n$ ) by applying a derating coefficient

A

B

C

D

## Effects due to harmonics presence

The presence of triplen harmonics due to the non-linear loads powered by busbar trunking systems, requires derating of the nominal rating in order to compensate its effects on the neutral conductor.

Choice of products when harmonics are present.

THD ≤ 15 %	15% < THD ≤ 33%	THD > 33%	Busbar Trunking	Rating (A)
800	630	500	KRA	800
1000	800	630	KRA	1000
1250	1000	800	KRA	1250
1600	1250	1000	KRA	1600
2000	1600	1250	KRA	2000
2500	2000	1600	KRA	2500
3200	2500	2000	KRA	3200
4000	3200	2500	KRA	4000
5000	4000	3200	KRA	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 KRA 3200 A.

Choice of products when harmonics are present.

THD ≤ 15 %	15% < THD ≤ 33%	THD > 33%	Busbar Trunking	Rating (A)
1000	800	630	KRC	1000
1350	1000	800	KRC	1350
1600	1350	1000	KRC	1600
2000	1600	1350	KRC	2000
2500	2000	1600	KRC	2500
3200	2500	2000	KRC	3200
4000	3200	2500	KRC	4000
5000	4000	3200	KRC	5000
6300	5000	4000	KRC	6300

Example. For a total rms current of 2356 A (estimation based on power drawn by loads, including harmonics), the operational current is 2500 A.

THD is estimated at 30 %. The appropriate trunking is KRC 3200 A.

## Effects due to the frequency

Canalis KR nominal ratings are given for 50 Hz.

In case of 400 Hz operation, nominal rating must be derated at 75% (KRA) and 55% (KRC).

# Characteristics

Choosing the busbar trunking rating and checking the rating

## Choosing the busbar trunking rating according to the nominal current In

KRA - Conductors in aluminium		KRC - Conductors in copper	
Nominal current In (A)	Busbar trunking	Nominal current In (A)	Busbar trunking
0 to 800	KRA0800	0 to 1000	KRC1000
801 to 1000	KRA1000	1001 to 1350	KRC1250
1001 to 1250	KRA1250	1351 to 1600	KRC1600
1251 to 1600	KRA1600	1601 to 2000	KRC2000
1601 to 2000	KRA2000	2001 to 2500	KRC2500
2001 to 2500	KRA2500	2501 to 3200	KRC3200
2501 to 3200	KRA3200	3201 to 4000	KRC4000
3201 to 4000	KRA4000	4001 to 5000	KRC5000
4001 to 5000	KRA5000	5001 to 6300	KRC6300

## 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.

Line-to-line voltage drop, in volts (V) per 100 metres and per amp (A) at 50 Hz with load concentrated at the end of a run.

This calculation table applies to three-phase loads. For single-phase loads, the voltage drop given in the table is divided by 1.732.

For cos φ of	Symbol	Busbar trunking rating									
		KRA0800	KRA1000	KRA1250	KRA1600	KRA2000	KRA2500	KRA3200	KRA4000	KRA5000	
For cos φ of	1	0.0166	0.0128	0.0102	0.0062	0.0050	0.0045	0.0033	0.0026	0.0023	
	0.9	0.0169	0.0157	0.0130	0.0091	0.0069	0.0062	0.0048	0.0043	0.0038	
	0.8	0.0160	0.0160	0.0134	0.0098	0.0072	0.0066	0.0051	0.0048	0.0042	
	0.7	0.0149	0.0158	0.0133	0.0101	0.0074	0.0067	0.0053	0.0050	0.0044	
For cos φ of	Symbol	Busbar trunking rating									
		KRC1000	KRC1350	KRC1600	KRC2000	KRC2500	KRC3200	KRC4000	KRC5000	KRC6300	
	1	0.0104	0.0083	0.0068	0.0042	0.0033	0.0031	0.0023	0.0017	0.0014	
	0.9	0.0146	0.0113	0.0096	0.0063	0.0053	0.0050	0.0031	0.0025	0.0021	
	0.8	0.0155	0.0120	0.0102	0.0069	0.0059	0.0055	0.0033	0.0026	0.0023	
	0.7	0.0158	0.0121	0.0104	0.0071	0.0061	0.0058	0.0033	0.0027	0.0023	

### Example:

For the KRC 1600 A busbar trunking:

- Ib = 1565 A
- In = 1600 A
- Length L = 78 m
- Cosine φ = 0.8

According to the above table, the voltage drop coefficient for 100 metres and per amp is equal to 0.01 V / 100 m / A.

$$0.01 \times 0.78 \times 1565 = 12.2 \text{ V}$$

For a voltage = 400 V, in percentages:  $12.2 / 400 = 0.0305$  that is to say 3 %.

# Characteristics

## Packaging, handling and transport advices



Chemical products should not be stored at temperatures below 0°C (short time transportation is accepted) and must be used at maximum 1 year after their delivery from the manufacture plant.

### Transport by road

Straight elements are supplied on pallets measuring 0.8 m x 3 m with a maximum load carrying capacity of 2000 kg.

No more than 2 pallets must be stacked on top of each other.

Smaller elements, form parts, accessories, etc. are packed on pallets measuring 0.8 m x 1.2 m with a maximum load carrying capacity of 1500 kg. No additional packing is required for cross-country road transport (truck freight).

### Transport by sea

For transport by sea, all pallets and crates are packed appropriately.

The standard crates are made of 30 mm thick spruce, the side panels of 20 mm thick spruce and the top cover akylux. The top and side panels are protected with clupac paper. The maximum load carrying capacity of such crates is 2500 kg.

All wood used is heat-treated to 75°C/165°F for 48 hours and IPPC stamped.

For larger projects, all pallets and frame pallets are loaded into marine containers with a maximum load carrying capacity of 20000 kg are used.

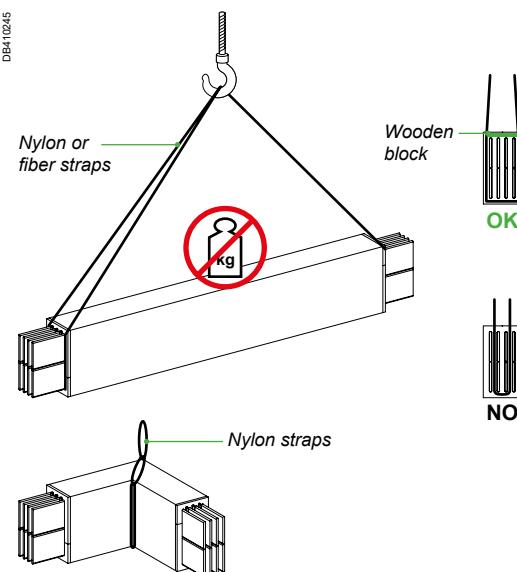
The stacking of 2 boxes is possible.

### Transport by air

For air transport, all cast resin busbar elements and accessories are packed on pallets with frames or in crates with plywood 12 mm side / top.

The epoxy resin, hardener and demoulding agent are required to make the cast resin mix for the joints on site. These materials are regarded as hazardous for the purpose of air transport.

They are shipped with special packing and labeling in accordance with the IATA regulations. This should be specified when ordering.



### Handling

Canalis KR units can be moved using a forklift truck and /or suspended from slings.

Pallets can be lifted and carried from all sides. All elements on the pallets are protected with wooden spacers and metal hoops.

For safe loading and unloading of marine containers, a minimum forklift hoisting power of 4.5 tons is required. To safely lift the pallets at the narrow side (0.8 m) the forklift must have a minimum fork length of 2 m.

Ensure that the elements do not get damaged when transport them with a forklift. Use rubber protection on the fork not to scratch the surface of elements.

Use fabric slings to suspend the cast resin busbar elements. Please always attach slings to lift the elements.

The elements must be lifted in a secure way. The suspended elements can be removed and placed in various positions, depending on their required application (see illustration).

*NOTE: Refer to NVE58348 instruction guide for more details*

# Design guide

## Characteristics

### Run optimization

CanBrass software can be used to design the busbar trunking line. The easy-to-use program creates a graphic model of the line, determines the length and draws up the list of Canalis KR parts to order.

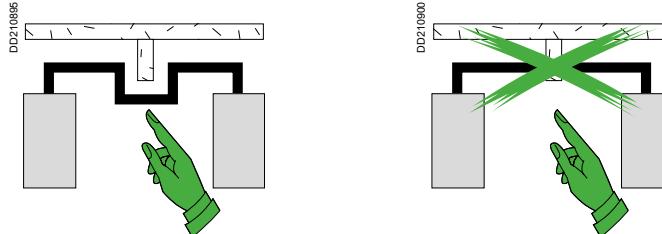
The Canalis KR line is easy to specify simply by indicating the required dimensions. However, it is strongly advised to use the shortest and simplest path possible between the transformer and the switchboard.

It is important to carefully plan the layout of the transformer and switchboard in order to use:

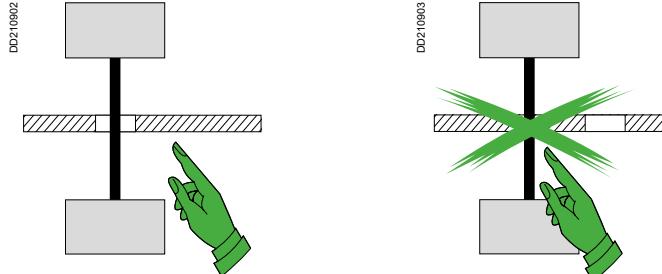
- The minimum number of components for changing direction
- Straight made-to-measure components rather than made-to-measure components for changing direction.

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

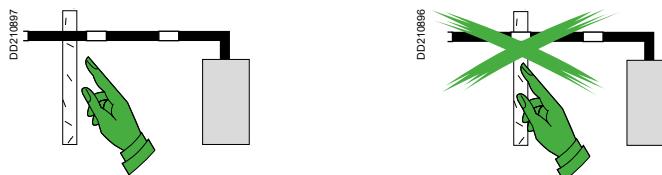
#### Obstacles that obstruct the busbar trunking such as beams, pipes, etc.



#### Badly positioned places for going through walls and floors.



#### Joint positions in the middle of a partition wall.



# Characteristics

## How to support Canalis KR?

**Canalis KR is usually attached to the structural elements of the building using supports provided by Schneider Electric (e.g. wall beams or stands for intermediate levels) and specific fixing brackets, threaded rods and C-profile.**

**Fixing material not available in the catalogue e.g. plugs, beams, suspension struts, etc.) must be provided by qualified electricians.**

### Rules to follow

The ideal distance for fixing is 1.5 m in straight busbar runs, or 2 m for 2 fixings in the case of straight length.

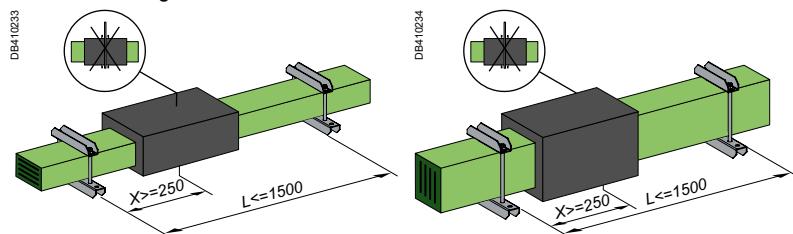
Take the following specifications into account: an element must never be left unsupported.

For easier leveling, always use two supports for each element wherever possible. A bracket must never coincide with a joint block. Always maintain a distance of at least 250 mm between the centre of joint block and the bracket.

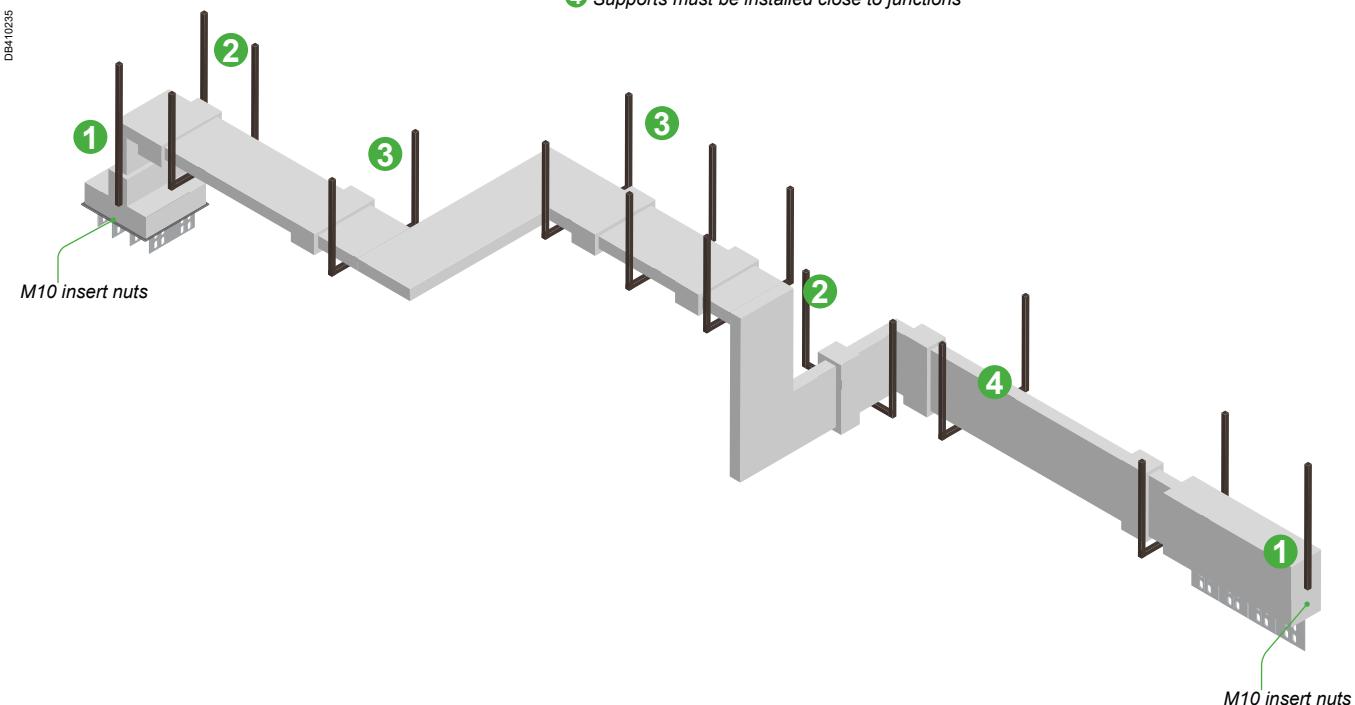
Never support an element at any point other than fixing bracket

The capacity of fixing brackets in terms of supporting is at least the weight of the cast resin busbar trunking system plus 90 kg, in accordance with IEC 61439-6.

> 1.500 mm length



- ① Terminals must be fixed by its own brackets not be supported by transformers or switchboards
- ② Vertical branches must be always supported the closer as possible to the elbow angle
- ③ Elbows and zeds must be supported individually.
- ④ Supports must be installed close to junctions



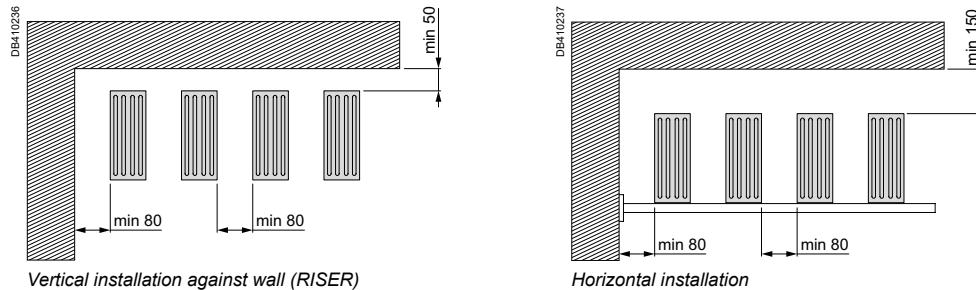
# Design guide

## Characteristics

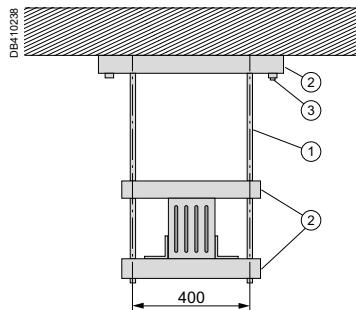
### How to support Canalis KR?

#### Distances from wall and ceilings

For Horizontal installation the minimum gap between ceiling and busway should be 150 mm, however the recommended gap should be 500 mm to easy assembly of junctions.

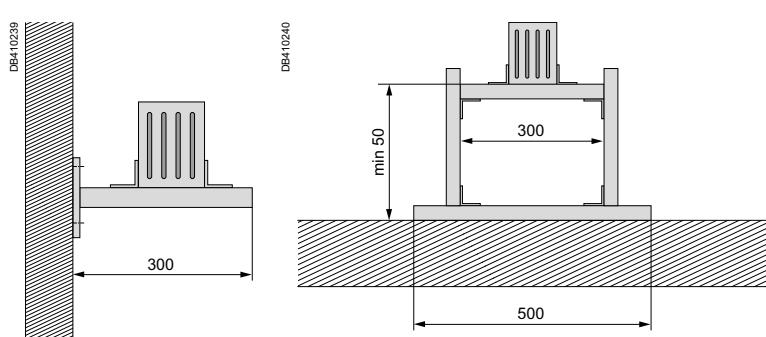


#### Fixation to the ceiling



#### Fixation on wall or floor

Attach the suspension bracket to the wall or another suitable structural support. Ensure that the wall or structural support is strong enough to hold the weight of the system. The exact configuration will depend on on-site conditions.



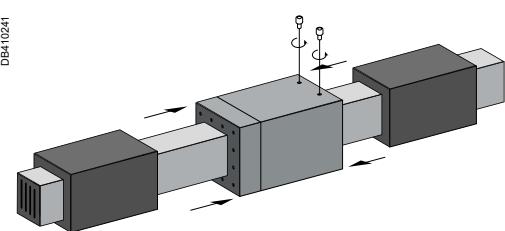
#### Fixation of expansion units

Fit the expansion unit in the same way as any other cast resin busbar trunking system element in the position indicated in the installation drawings.

Never install fixing brackets in the expansion area.

Do not attach expansion elements to the fixing bracket, as this will result in the temperature-dependent expansion of the run not fully compensated.

Attach one fixing bracket in front of the expansion area and one behind to ensure that the element works correctly. Two support points are provided for each expansion unit.



# Characteristics

## Junction assembly

A

B

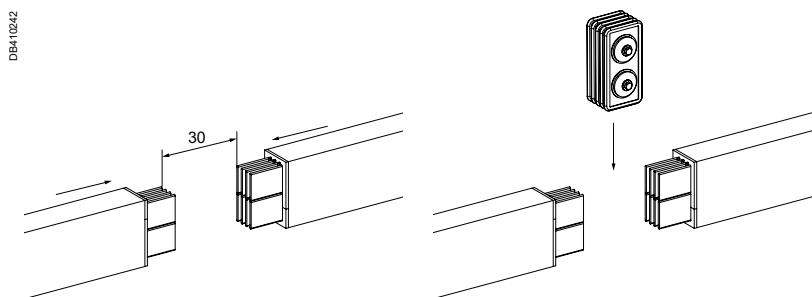
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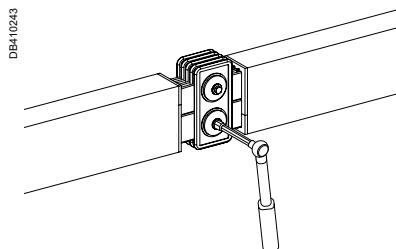
### Distance between units

The distance between the conductor ends of 2 cast resin busbar elements is 30 mm. To compensate for smaller construction tolerances, this distance can be reduced to 25 mm or extended to 35 mm.

The cast resin busbar element to be connected are aligned a levelled accordingly.



Tighten the connecting bolt on the joint block to 54 Nm (M10) using 17 mm torque wrench, or 84 Nm (M12) using a 19 mm torque wrench.



### Checking the electrical connection

Before start assembling, each element must be checked to ensure that the insulation resistance of the conductors is > 10 M-Ohm.

For an easy check, connect a sub-run of 6 units with junction blocks and test the insulation and the phase sequence.

No other equipments: transformer, switchboard, end feed unit must be connected at this time.

### Recommendation to organize the junction casting

Avoid drafts and ambient temperature below 5°C.  
The hardening time is usually around 5 to 14 hours.

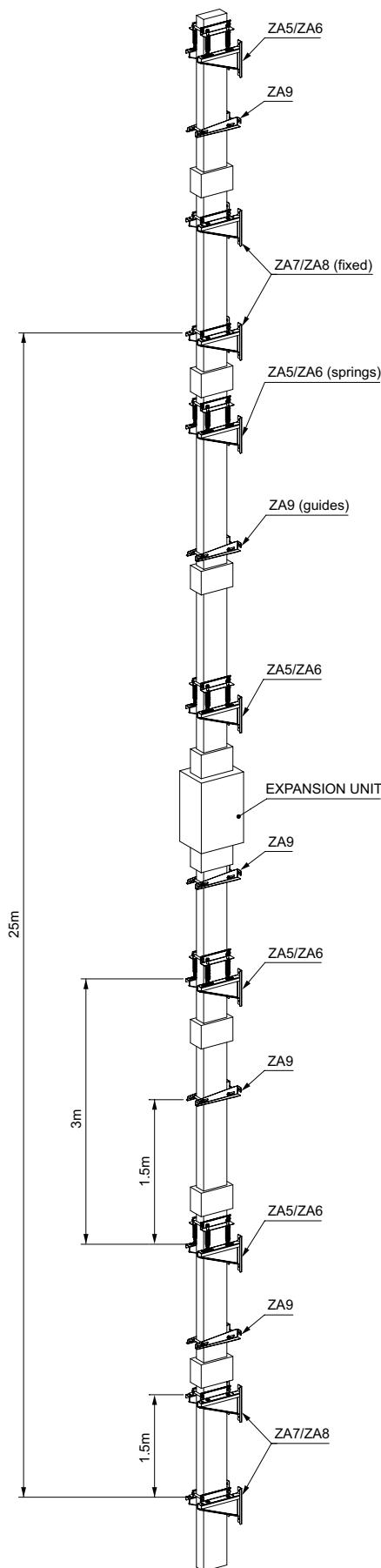
Ambient temperature	Max time to use mix	Hardening time
25°C	20 - 25	5 hours
15°C	25 - 30	7 hours
10°C	30 - 35	10 hours
5°C	35 - 40	14 hours

# Design guide

## Rising mains support selection

### General

DB410960



## Installing a raising main

### KR busway trunking support

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

This type of fixing support has the following advantages:

- assembly:
  - to a wall,
  - to a wall bracket,
  - to the floor.
- height and depth adjustment;
- spring adjustment to ensure distribution of the load at each floor;
- avoids the transmission of building forces to the busbar trunking (expansion and vibration).

### Installation principles

While installing KR rising mains, specific supports mentioned in the catalogue can be used along with expansion unit in vertical raising mains require few descriptions. There is no height limitation for rising mains with KR cast resin busway, but some guidelines for the design of support system must be followed.

Height of busway	Support type			
	Fixed	Springs	Guides	Expansion unit
	ZA7 / ZA8 (every 1.5 mm)	ZA5 / ZA6 (every 3 mm)	ZA9 (between ZA5 / ZA6)	(every 25 m)
0 m to 6 m	✓	-	-	-
6 m to 12 m	✓ Only 2 in bottom	✓	✓	-
12 m to max.	✓ 2 at bottom and after every 25 m	✓	✓	✓

In any riser, two fixed support type ZA7/ZA8 is required at the bottom of a riser.

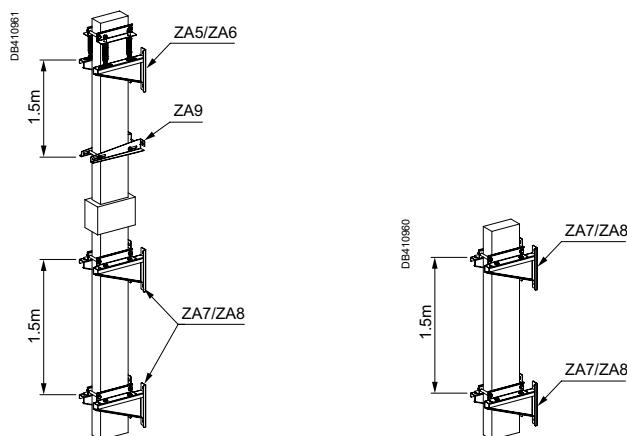
**General guideline:** At every 1.5 meters distance, a support type is required. They can be fixed supports, just guides or guides with springs.

*NOTE: In special cases, the maximum of 2 meters distance is accepted between the supports locally but need to adjust on other places to keep an average of 1.5 meters.*

- For "small risers" up to 6 meters, only fixed support ZA7/ZA8 is required.
- For "medium risers" beyond 6 meters, spring supports ZA5/ZA6 is required with a distance of 3 meters, and guiding supports ZA9 is required in between two spring supports.

*NOTE: For risers 6 to 12 meters maximum, only 1 section (at the bottom) must be equipped with 2 fixed supports and other sections must be extended freely across the guides and spring supports.*

- For "large risers" higher than 12 meters, previous guidelines must be followed and in the middle of each 25 meters sections, install an expansion unit to compensate the extension, and install 2 units of ZA7/ZA8 after every 25 meters.



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