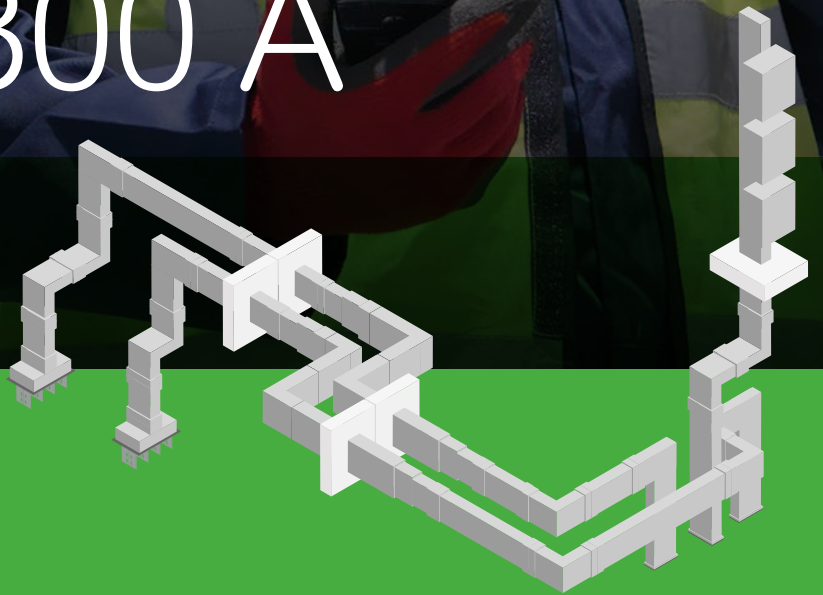


Line Series

# Canalis KR 800 - 6300 A

Catalogue 2021

Prefabricated cast resin  
busbar trunking IP68



[se.com](http://se.com)

Life Is On

**Schneider**  
Electric



# Contents

Introduction

A

Catalogue numbers and dimensions

B

Design guide

C

Index

D





# Introduction

---

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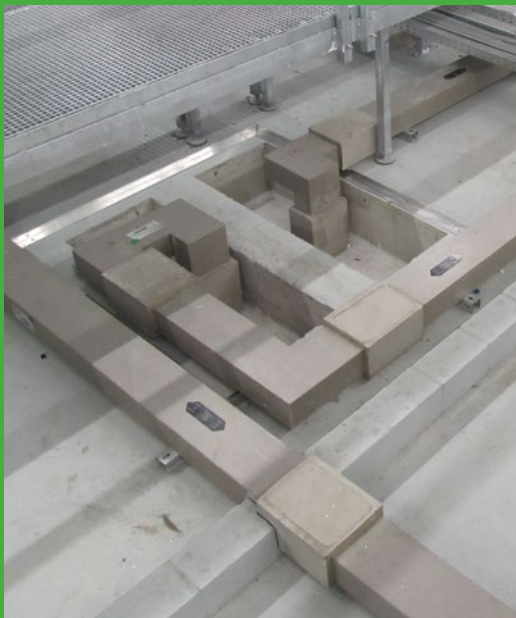


Life Is On

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

**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.



**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.



**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).*



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

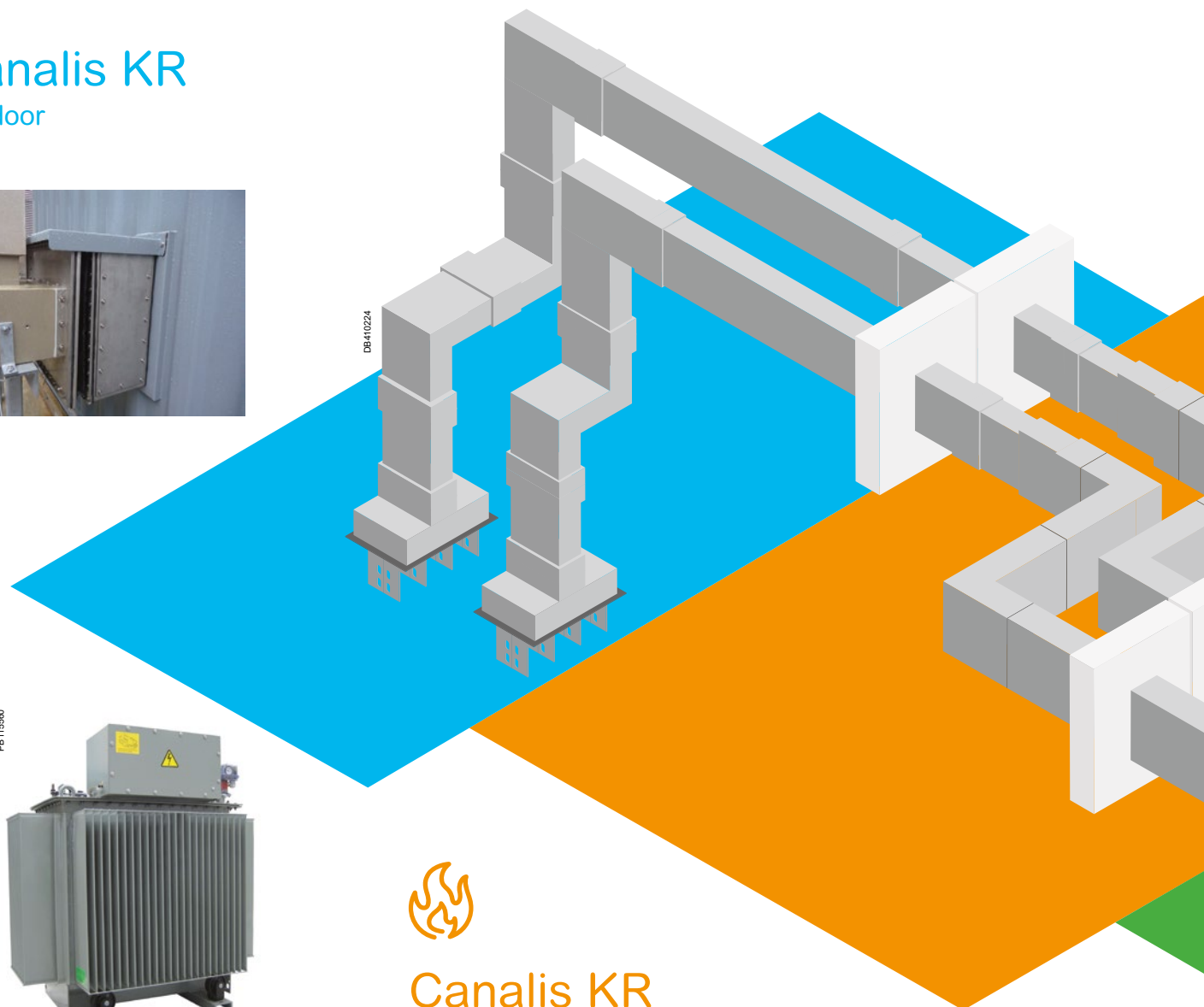
Outdoor  
IP68

B



C

D



## Canalis KR

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






**Canalis KR**  
**Canalis KT**  
 Connectable and certified  
PE115652  
  
 IP55



## Canalis KT

630 A plug-in units with auto-clamping system

PE115561



A

B

C

D

PE122288



## Canalis KT

Easy connection to Okken switchboards

# Panorama of Canalis range

A

Low & medium Power Solutions

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

B

PD020217\_r2



C

PD020219\_r



D

PD020221\_r\_KN



PD020222\_r\_W



| 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> |                                |                          |         |
| <b>Aluminium:</b>              | <b>Copper:</b>                 | 690 V                    |         |
| 100 A                          |                                |                          | 15.7 kA |
| 160 A                          | 160 A                          |                          | 22 kA   |
| 250 A                          | 250 A                          |                          | 28 kA   |
| 400 A                          | 400 A                          |                          | 49.2 kA |
| 500 A                          |                                |                          | 55 kA   |
| 630 A                          | 630 A                          |                          | 67.5 kA |
| 800 A                          | 800 A                          |                          | 78.7 kA |
| 1000 A                         |                                |                          | 78.7 kA |

## Panorama of Canalis range

| 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<br>2 or 4 + PE<br>Dual circuit<br>2 + 2 + PE<br>2 + 4 + PE<br>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>                                  |

| 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

B



PD202088-74\_J

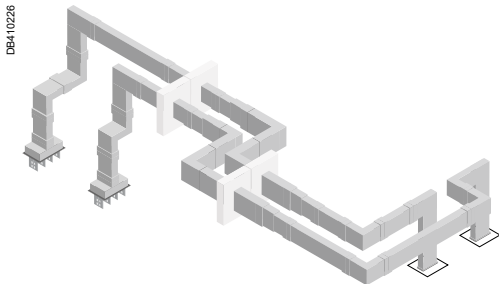
C

D

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

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

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



DE410226

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

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

# Panorama of Canalis range

A

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

B

C

D

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

# Canalis KR, a display of advantages

A



## 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)

B

C



## Reliable in harsh environments

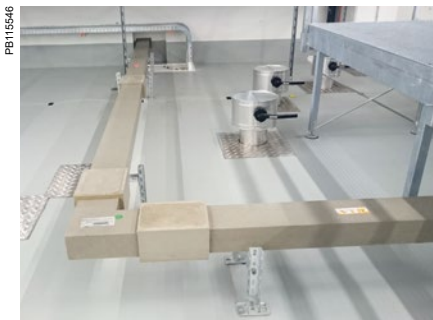
- Installation in explosive area Atex zone II
- Resistance to chemical atmosphere
- Resistance to corrosion

D



## 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

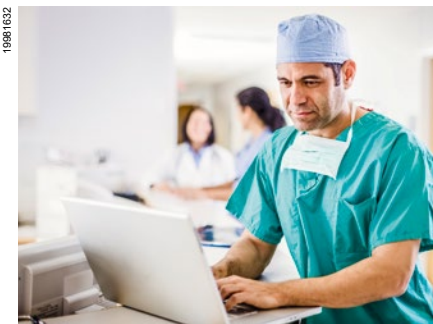
- Outdoor run
- Atex zone 2
- Resistant against chemical aggression
- Resistant against corrosion



## 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



# Introduction

## Canalis KR is adapted for all types of building

A



### Harbor and Shipyard platform

#### Key points

- IP68
- Resistant to salted water
- Operating continuity

B



### Food and beverages

#### Key points

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

C

D



### 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

- KD0C00CTAUEN.

### 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

## A Work-out your solution together

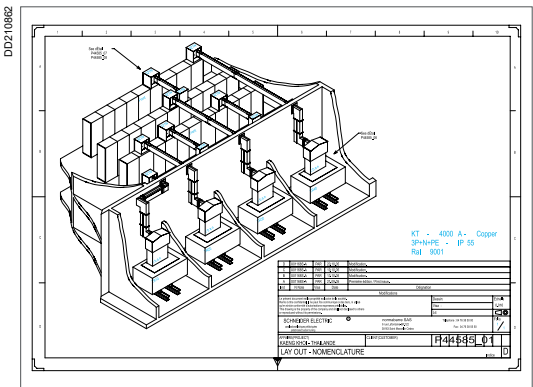


Our teams are available to provide customers with technical assistance throughout the installation of their projects.

- 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

C

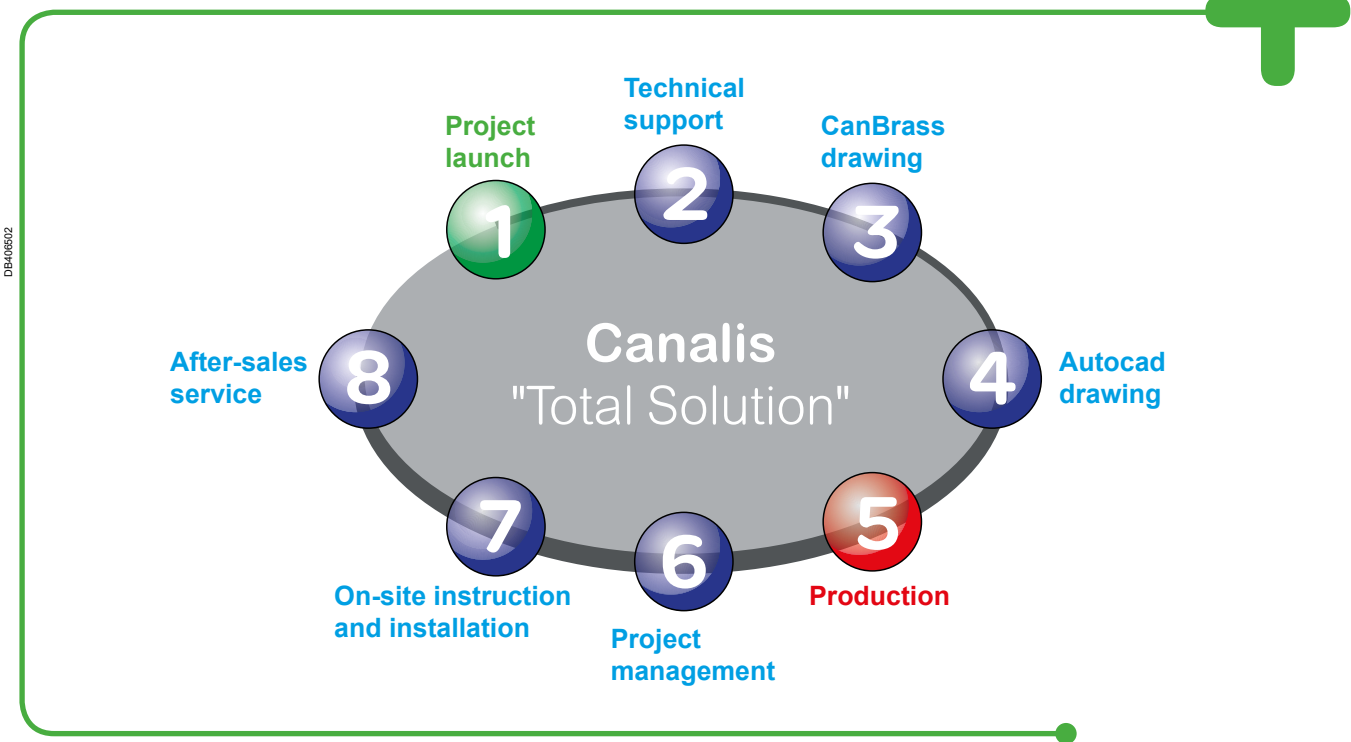


- Full installation drawings:
  - > 3D Autocad drawings with corresponding parts lists
  - > 2D drawing with dimensions
  - > detailed connection drawings.

• Site supervision and commissioning assistance.

• Training for designers and contractors.

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.

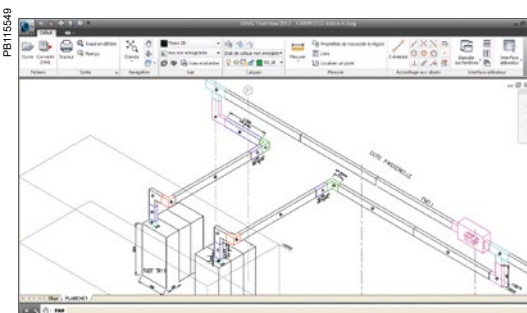
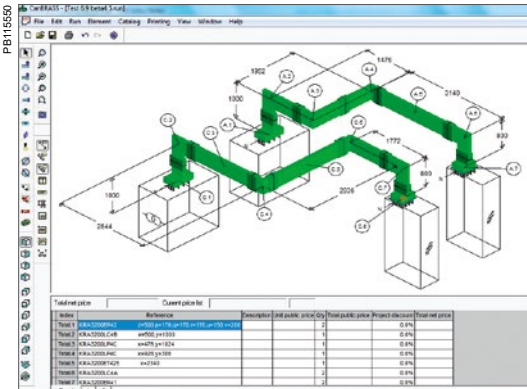
### CanBrass

#### Graphical costing

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

Enter the following:

- Rating.
- Polarity.
- Connection types.



#### 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.

Project: / Folder N°6  
Customer:

Total Net amount of the project (NAT not included): 0  
Current price list:

A = KTA25 - Tn = N + PE and/or Tn = PEN

Total Net amount of the run = 0.00

| Qty | Description        | Element length | Reference   | Unit public price | Project discount | Total net price |
|-----|--------------------|----------------|-------------|-------------------|------------------|-----------------|
| 11  | h=1923 e=500 m=200 |                | PTAS200L41  |                   | 0.0%             |                 |
| 11  | h=2140             |                | PTAS200L42  |                   | 0.0%             |                 |
| 11  | h=2140             |                | PTAS200L43  |                   | 0.0%             |                 |
| 11  | h=1920             |                | PTAS200L44  |                   | 0.0%             |                 |
| 11  | h=400 m=418 e=400  |                | PTAS200L45  |                   | 0.0%             |                 |
| 11  | h=1722             |                | PTAS200L46  |                   | 0.0%             |                 |
| 11  | h=513              |                | PTAS200L47  |                   | 0.0%             |                 |
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| 11  | h=513              |                | PTAS200L50  |                   | 0.0%             |                 |
| 11  | h=2350             |                | PTAS200L51  |                   | 0.0%             |                 |
| 12  |                    |                | PTAS200L52  |                   | 0.0%             |                 |
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| 11  |                    |                | PTAS200L60  |                   | 0.0%             |                 |
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| 11  |                    |                | PTAS200L68  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L69  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L70  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L71  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L72  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L73  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L74  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L75  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L76  |                   | 0.0%             |                 |
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| 11  |                    |                | PTAS200L80  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L81  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L82  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L83  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L84  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L85  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L86  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L87  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L88  |                   | 0.0%             |                 |
| 11  |                    |                | PTAS200L89  |                   | 0.0%             |                 |
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| 11  |                    |                | PTAS200L91  |                   | 0.0%             |                 |
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| 11  |                    |                | PTAS200L100 |                   | 0.0%             |                 |

#### Quote

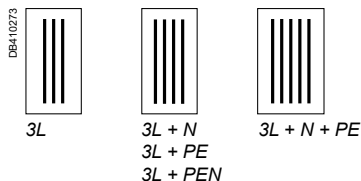
The CanBrass software can generate a comprehensive customised quote:

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

## Introduction

## General description

A

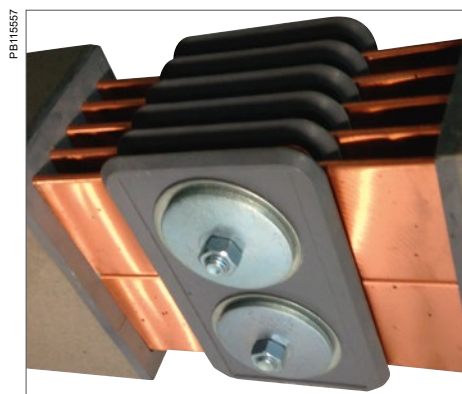


B

C



D



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).

## 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.

## Conductors

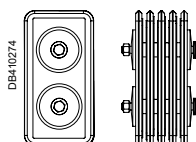
Conductors have a rectangular section with full rounded edges and are available in two versions:

- **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.

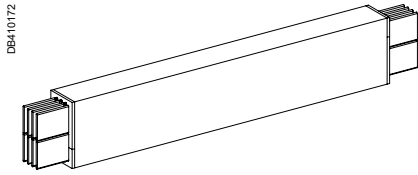
This ensures a high standard of pressure on the contacts surfaces.

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.

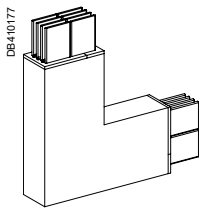
**Joint blocks are not supplied with run sections (or any other section) it must be ordered separately.**



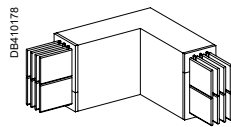
ET - Straight feeder lengths

## Straight sections

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



LC - Edgewise elbow

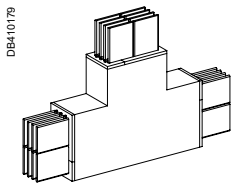


LP - Flat elbow

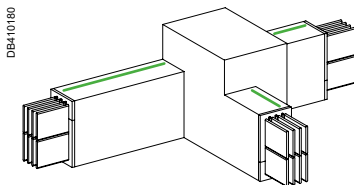
## Simple change of direction

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

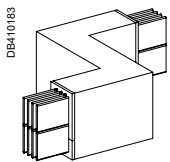
- **Type LP**, flat elbow available in fixed or made-to-measure lengths.
- **Type LC**, edgewise elbow available in fixed or made-to-measure lengths.
- **Type TC and TD**, to feed runs perpendicular to the main run.



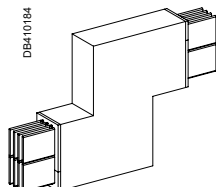
TC - Edgewise tee



TD - Flatwise tee



ZP - Flat zed unit

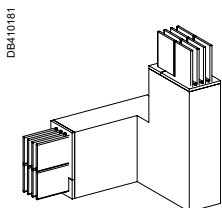


ZC - Edgewise zed unit

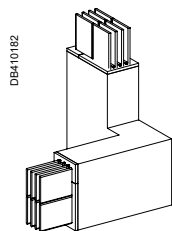
## Change of direction

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.



CP●1 - Edgewise and flat zed

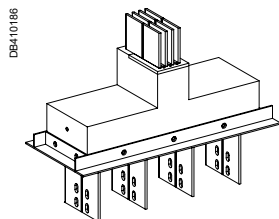


CP●2 - Edgewise and flat zed

# Introduction

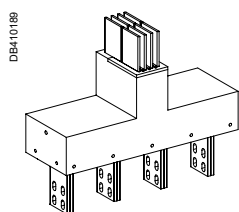
## Functional overview

A

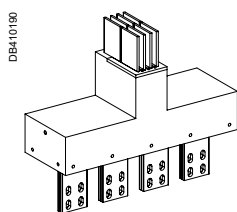


ER•1 - Straight feed unit

B

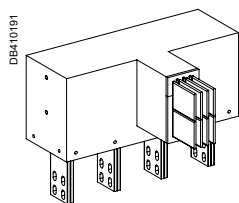


ER•2 - Straight feed unit

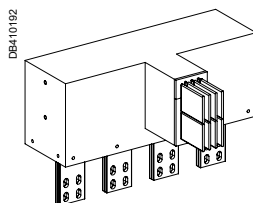


ER•3 - Straight feed unit

C

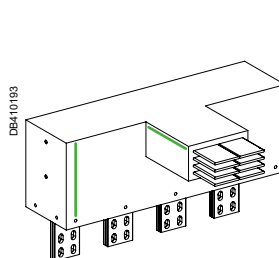


ER•4 - Edgewise elbow feed unit

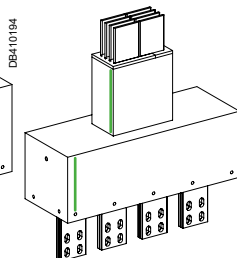


ER•5 - Edgewise elbow feed unit

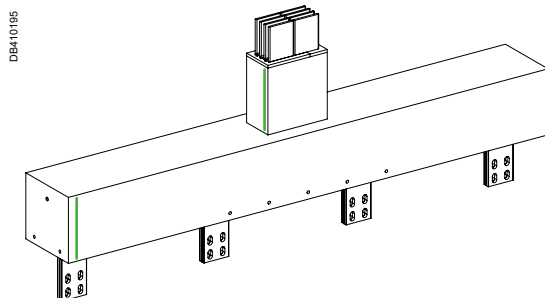
D



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

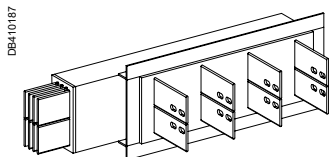
They allow the busbar trunking to be connected to a switchboard's busbar, or to the terminals of an oil immersed transformer, generator set, etc. Vertical or horizontal incoming.

- 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.

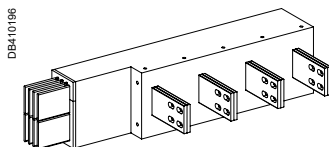
### Connection:

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

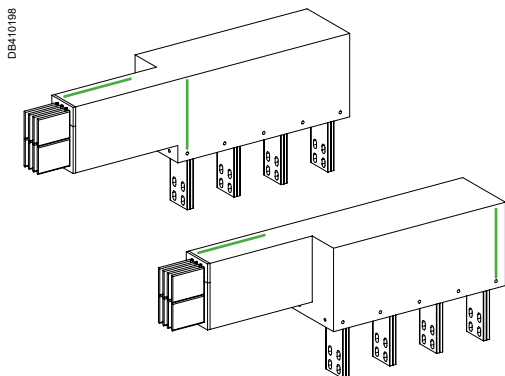




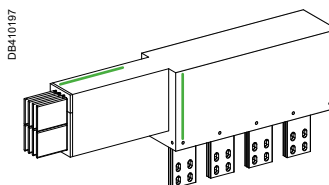
EL1 - Long feed unit



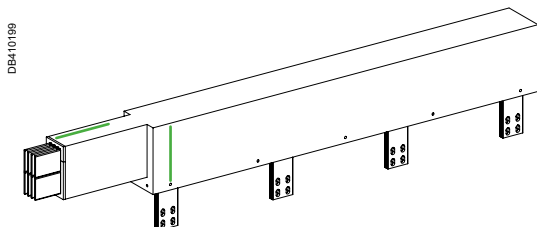
EL2 - Long feed unit



EL3 - Long feed unit



EL4 - Long feed unit



EL5 - Long feed unit for dry transformer

## Connection to switchboards and transformers

### Feed units - Type EL

They allow optimum connection to the busbar trunking.

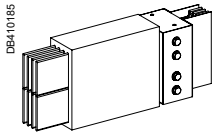
- EL1 is delivered with aluminium brackets to be fitted directly to the roof of the switchboard.

- EL2 to EL5 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.

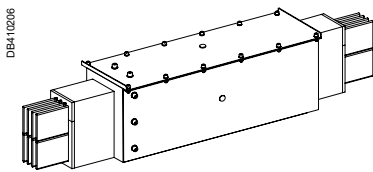


A



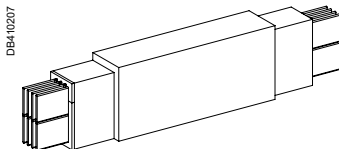
RT - KR/KT adaptor

B



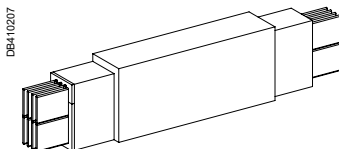
DB - Expansion unit

C

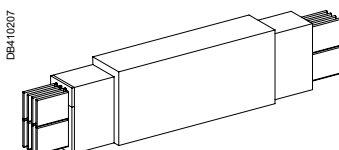


TN - Neutral crossover

D



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 manage.

| <b>NOTICE</b>  |
|--|
| KT junction blocks are not provided with this reference and should be ordered separately with the KT products. |

## Other run sections

### Expansion section

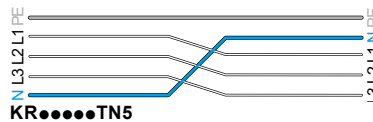
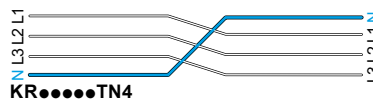
It controls and absorbs the expansion of Canalis runs and must be used on runs over 30 meters for Aluminium and 40 meters for copper and each time the busbar trunking passes through a building.

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

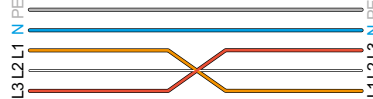
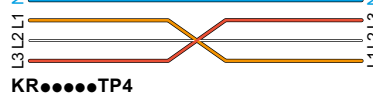
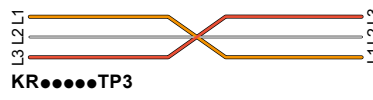
### Transposition Section

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.

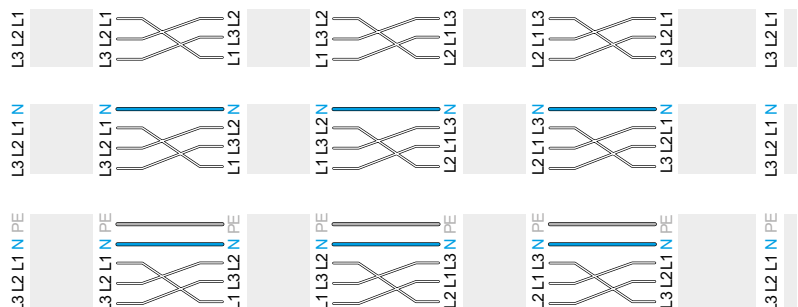
■ **The TN version** transposes the neutral

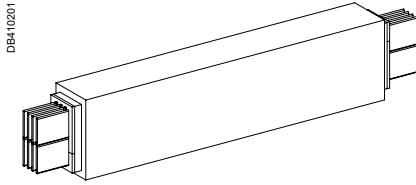
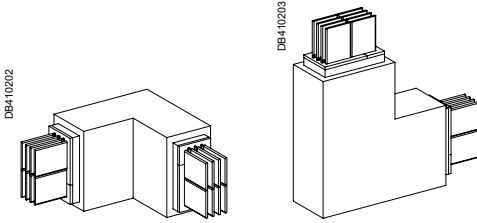
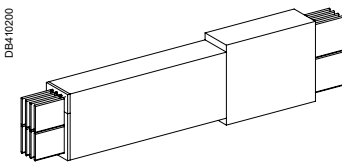
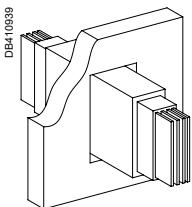


■ **The TP type** transposes the phases



■ **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.



DB410201  
FT - Fire rated straight lengthDB410202  
FP - Fire rated flat elbowDB410203  
FC - Fire rated edgewise elbowDB410200  
RU - Reduction unitDB410839  
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

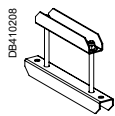
If the busbar trunking passes through a wall or a shaft, fire barrier kit can be required. The regular busway is suitable for 60', in case of demand of above this level or up to 120' a fire kit has to be installed through the wall or floor. The reference covered the two sides and wall. Gap between fire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



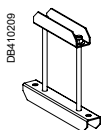
# Introduction

## Functional overview

A

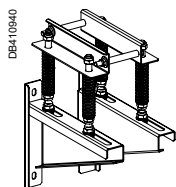


DB410208  
ZA1 - Horizontal flat support

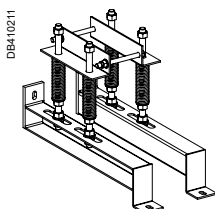


DB410209  
ZA2 - Horizontal edgewise support

B

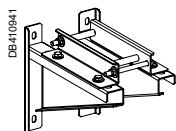


DB410840  
ZA5 - Vertical wall spring support

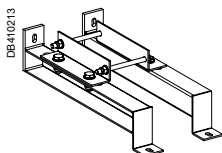


DB410211  
ZA6 - Vertical floor spring support

C

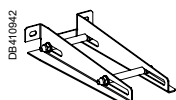


DB410841  
ZA7 - Vertical wall fix point support



DB410213  
ZA8 - Vertical floor fix point support

D



DB410942  
ZA9 - Vertical wall guiding support

## Supports

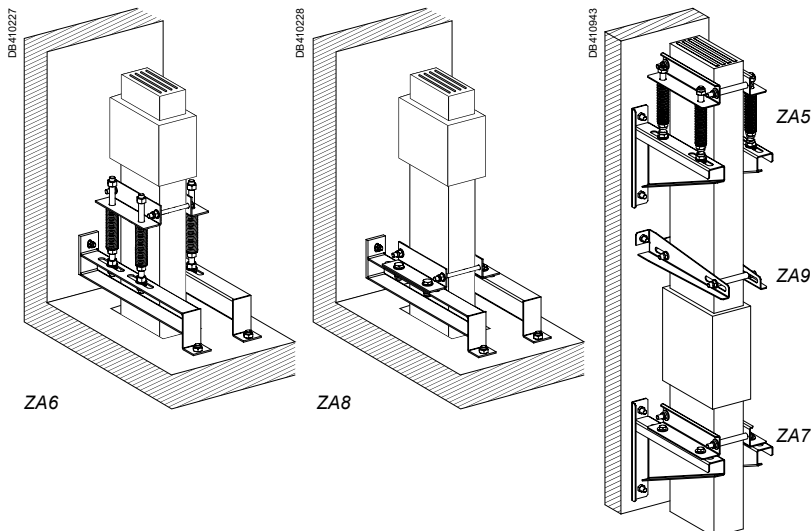
### Horizontal

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 |
| Run components                      | B-29 |
| Junction of elements                | B-30 |
| Changes of direction                | B-32 |
| Multiple changes of direction       | B-34 |
| Additional run components           | B-36 |
| Feed units                          |      |
| Standard                            | B-38 |
| Made to measure                     | B-41 |
| Fire resistant elements             | B-52 |
| Other run sections                  | B-54 |
| Supports                            | B-56 |
| Protective flanges and covers       |      |
| How to connect Canalis KR?          | B-60 |
| Connection accessories              | B-67 |
| Size and number of connection parts | B-70 |



### 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   | Demoulding agent           | DA   |
| Phases crossover       | TP   | Support                    | ZA   |
| Neutral crossover      | TN   | End cover                  | FA   |
| Phases balance         | TO   |                            |      |
| 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           |



### Ordering

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

**Important:**

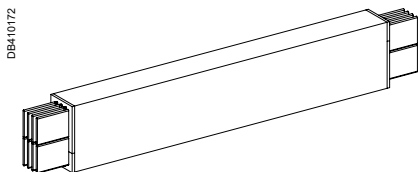
- for the 800 A rating, add a "0" in the catalogue number: **KRA0800**
- add the dimensions of the selected component as a technical comment.

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

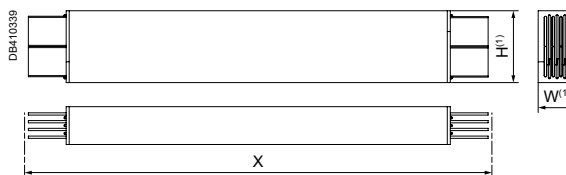
**KRA0800ET515, X = 1435**



### ET - Straight feeder lengths

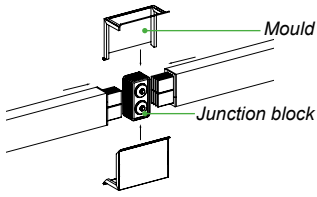


| Type            | Length "X" (mm) | Cat. no.     |                             |              |
|-----------------|-----------------|--------------|-----------------------------|--------------|
|                 |                 | 3L           | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE  |
| Made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

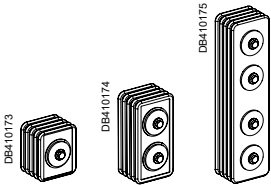


The junction between two sections is made using a joint block and by casting a resin mix in a mould prepared with a demoulding agent.

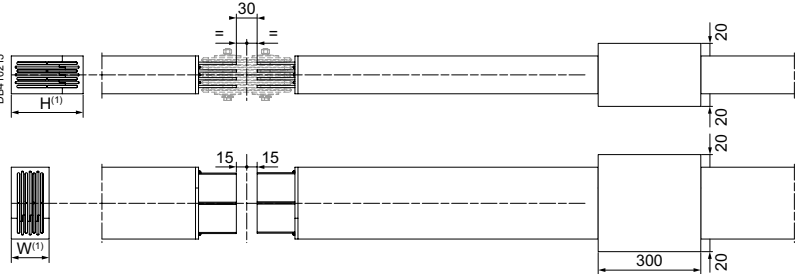
### YA - Junction block

Not included with run sections.

B



| Type  | Cat. no.  |                             |             |
|-------|-----------|-----------------------------|-------------|
|       | 3L        | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Fixed | KR●●●●YA3 | KR●●●●YA4                   | KR●●●●YA5   |



(1) Dimensions see table page 28

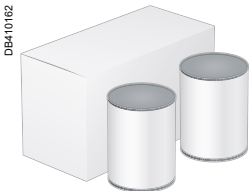
C

| 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           |

The resin mix is composed of three products: resin, hardener and mineral filler. Resin and hardener are packaged together in a carton box, the mineral filler is packaged in a bucket.

D

### RH - Resin and hardener



Kit of resin and hardener

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

### 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       |

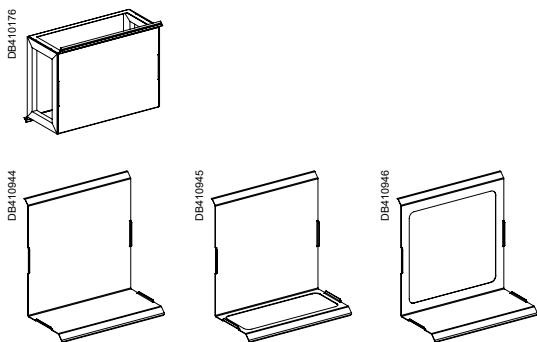
A

B

C

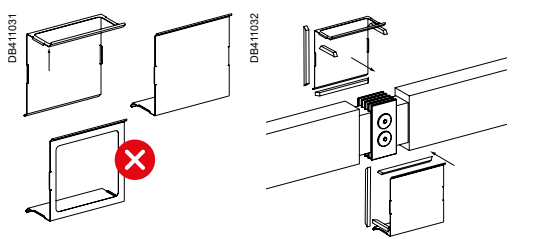
D

### EM - Casting mould

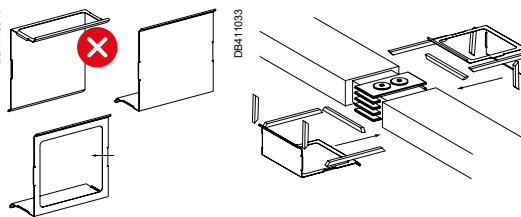
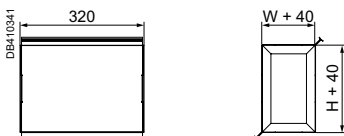


| Type          | Rating of the trunking (A) |        | Nb of cond. | Cat. no.    |
|---------------|----------------------------|--------|-------------|-------------|
|               | KRA                        | KRC    |             |             |
| Casting mould | 0800                       | 1000   | 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 |             |

#### Horizontal installation KRB●●●●EM●● = Qty 1 unit



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



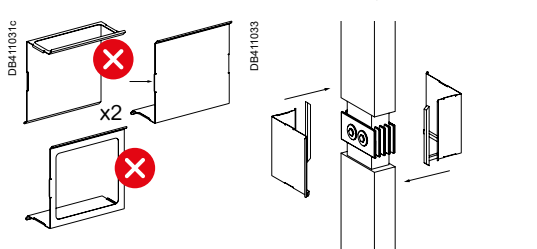
#### Quantity table

| Rating (A)   | Quantity     |         | No. of junctions |
|--------------|--------------|---------|------------------|
|              | KRA          | KRC     |                  |
| 0800 to 5000 | 1000 to 6300 | 1 mould | 4 <sup>(1)</sup> |

(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●●●●EM●● = Qty 2 unit



### DA - Demoulding agent



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

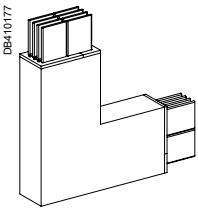
#### Quantity table

| 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            |

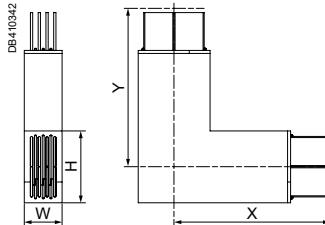
# Changes of direction

## LC - Edgewise elbow

A



| 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 |
|                 | Long branche  | KR●●●●●LC3C                 | KR●●●●●LC4C |
|                 |               |                             | KR●●●●●LC5C |



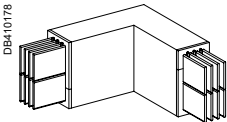
B

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

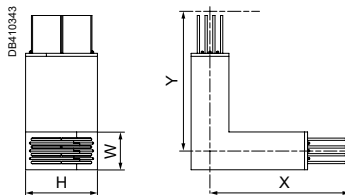
| Rating (A) |      | LC●A |     | LC●B        |             |           | LC●C        |             |           |
|------------|------|------|-----|-------------|-------------|-----------|-------------|-------------|-----------|
| KRA        | KRC  | X    | Y   | X           | Y           | (X+Y) max | 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



| 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 |
|                 | Long branche  | KR●●●●●LP3C                 | KR●●●●●LP4C |
|                 |               |                             | KR●●●●●LP5C |



D

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      |



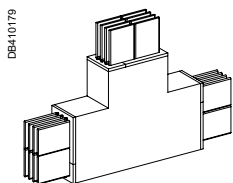
A

B

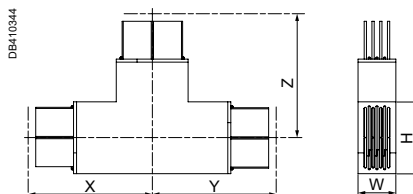
C

D

### TC - Edgewise tee



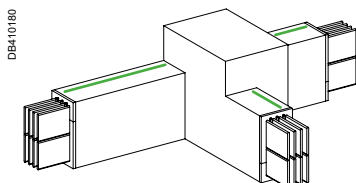
| Type            | Cat. no.   |                             |             |
|-----------------|------------|-----------------------------|-------------|
|                 | 3L         | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Fixed           | KR●●●●TC3A | KR●●●●TC4A                  | KR●●●●TC5A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



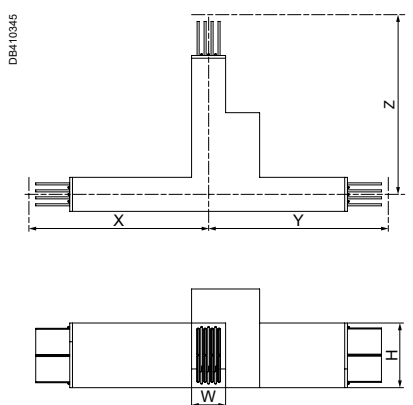
Dimensions (For H and W, see the "Trunking cross section" table - page 28)

| 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        |

### TD - Flatwise tee



| 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  |

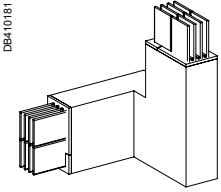


Dimensions (For H and W, see the "Trunking cross section" table - page 28)

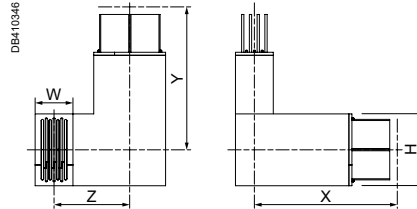
| Rating (A) |      | TD●A |     |     | TD●B        |             |            |             |
|------------|------|------|-----|-----|-------------|-------------|------------|-------------|
| KRA        | KRC  | X    | Y   | Z   | X           | Y           | Z          | (X+Y+Z) max |
| 0800       | 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        |

A

### CP•1 - Edgewise and flat zed



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



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

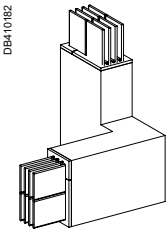
| Rating (A) |      | CP•1       |             |             |              |         | (X+Y+Z) max |
|------------|------|------------|-------------|-------------|--------------|---------|-------------|
| KRA        | KRC  | X          | Y           | Z           | 3 or 4 cond. | 5 cond. |             |
| 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    |             |

B

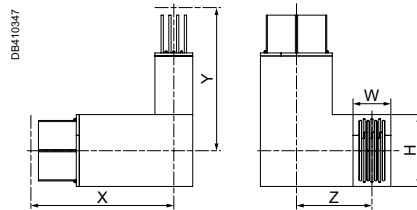
C

D

### CP•2 - Edgewise and flat zed



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



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

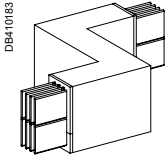
| Rating (A) |      | CP•2       |             |             |              |         | (X+Y+Z) max |
|------------|------|------------|-------------|-------------|--------------|---------|-------------|
| KRA        | KRC  | X          | Y           | Z           | 3 or 4 cond. | 5 cond. |             |
| 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

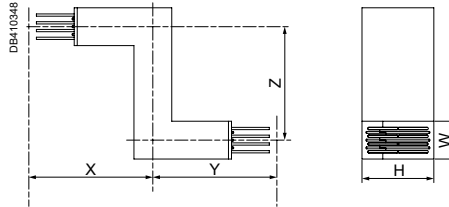
## Multiple changes of direction



### ZP - Flat zed unit



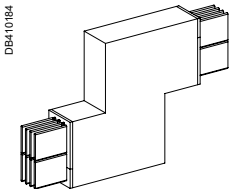
| Type            | Cat. no.   |                             |             |
|-----------------|------------|-----------------------------|-------------|
|                 | 3L         | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Made to measure | KR●●●●●ZP3 | KR●●●●●ZP4                  | KR●●●●●ZP5  |



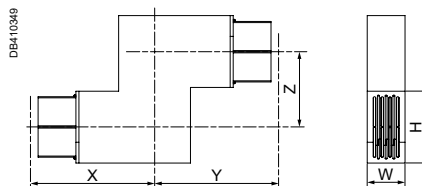
Dimensions (For H and W, see the "Trunking cross section" table - page 28)

| 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



| Type            | Cat. no.   |                             |             |
|-----------------|------------|-----------------------------|-------------|
|                 | 3L         | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Made to measure | KR●●●●●ZC3 | KR●●●●●ZC4                  | KR●●●●●ZC5  |



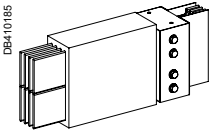
Dimensions (For H and W, see the "Trunking cross section" table - page 28)

| 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        |

# Catalogue numbers and dimensions

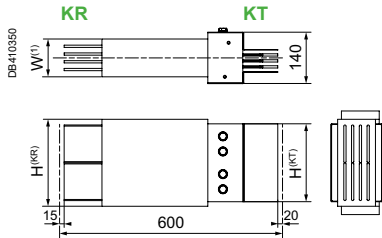
## Additional run components

### RT - KR/KT adaptor IP55 (indoor only)



KR.....RT..

| Type  | Length "X" (mm) | Cat. no.    |                             |             |
|-------|-----------------|-------------|-----------------------------|-------------|
|       |                 | 3L          | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Fixed | 600             | KR.....RT33 | KR.....RT43                 | KR.....RT54 |
|       |                 | -           | KR.....RT44                 | KR.....RT55 |



(1) Dimensions see table page 28

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

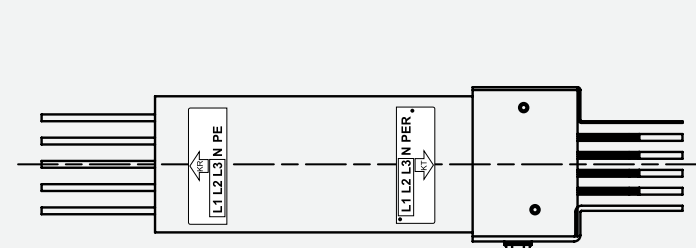
The adaptor is IP55 and must be only installed indoor

| KRA        |            | KTA        |            | KRC        |            | KTC        |            |
|------------|------------|------------|------------|------------|------------|------------|------------|
| Rating (A) | H(KR) (mm) | Rating (A) | H(KT) (mm) | Rating (A) | H(KR) (mm) | Rating (A) | H(KT) (mm) |
| 800        | 90         | 800        | 74         | 1000       | 90         | 1000       | 74         |
| 1000       | 110        | 1000       | 104        | 1350       | 110        | 1350       | 104        |
| 1250       | 130        | 1250       | 124        | 1600       | 130        | 1600       | 124        |
| 1600       | 190        | 1600       | 164        | 2000       | 190        | 2000       | 164        |
| 2000       | 230        | 2000       | 204        | 2500       | 230        | 2500       | 204        |
| 2500       | 270        | 2500       | 244        | 3200       | 270        | 3200       | 244        |
| 3200       | 380        | 3200       | 324        | 4000       | 380        | 4000       | 324        |
| 4000       | 460        | 4000       | 404        | 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           | KR.....RT33 | 3           | PE = casing                         | 3L + PE                   |
| 3L + PE           | PE = 100%L               | 4           | KR.....RT43 | 3           | PE = casing                         | 3L + PE                   |
| 3L + N / 3L + PEN | N = 100%L<br>PEN = 100%L | 4           | KR.....RT44 | 4           | N = 100%L<br>PE = casing            | 3L + N + PE /<br>3L + PEN |
| 3L + N + PE       | N = 100%<br>PE = 100%L   | 5           | KR.....RT54 | 4           | N = 100%L<br>PE = casing            | 3L + N + PE               |
| 3L + N + PE       | N = 100%L<br>PE = 100%L  | 5           | KR.....RT55 | 5           | N = 100%L<br>PER = 50%L<br>+ casing | 3L + N + PER              |

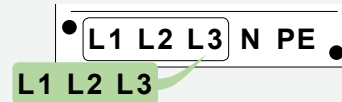
### Exemple of the labeling system



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



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



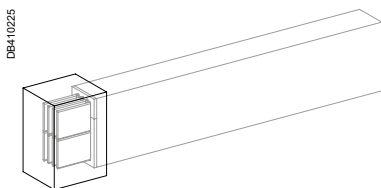
A

B

C

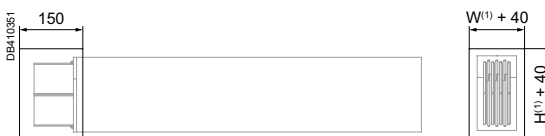
D

### FA - End cover



DB4 10225

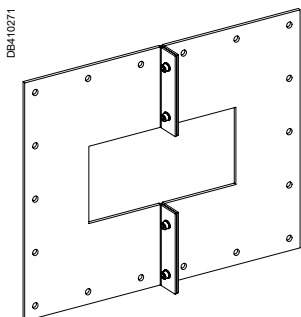
| Type      | Rating of the trunking (A) |      | Nb of cond. | Cat. no.    |
|-----------|----------------------------|------|-------------|-------------|
|           | KRA                        | KRC  |             |             |
| End cover | 0800                       | 1000 | 3, 4 or 5   | KRB0090FA09 |
|           | 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

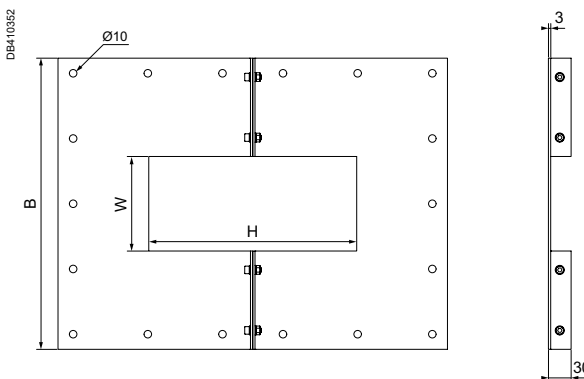
### WF - Wall flange

Sheet metal is made of stainless steel 316.



DB4 10271

| Type                 | Rating of the trunking (A) |      | Nb of cond. | H   | W   | A   | B           | Cat. no.    |
|----------------------|----------------------------|------|-------------|-----|-----|-----|-------------|-------------|
|                      | KRA                        | KRC  |             |     |     |     |             |             |
| 1 unit per reference | 0800                       | 1000 | 3, 4 or 5   | 90  | 90  | 490 | 490         | KRB0090WF09 |
|                      | 1000                       | 1350 | 3 or 4      | 110 | 100 | 510 | 500         | KRB0110WF10 |
|                      |                            |      | 5           | 110 | 120 | 510 | 520         | KRB0110WF12 |
|                      | 1250                       | 1600 | 3 or 4      | 130 | 100 | 530 | 500         | KRB0130WF10 |
|                      |                            |      | 5           | 130 | 120 | 530 | 520         | KRB0130WF12 |
|                      | 1600                       | 2000 | 3 or 4      | 190 | 100 | 590 | 500         | KRB0190WF10 |
|                      |                            |      | 5           | 190 | 120 | 590 | 520         | KRB0190WF12 |
|                      | 2000                       | 2500 | 3 or 4      | 230 | 100 | 630 | 500         | KRB0230WF10 |
|                      |                            |      | 5           | 230 | 120 | 630 | 520         | KRB0230WF12 |
|                      | 2500                       | 3200 | 3 or 4      | 270 | 100 | 670 | 500         | KRB0270WF10 |
|                      |                            |      | 5           | 270 | 120 | 670 | 520         | KRB0270WF12 |
|                      | 3200                       | 4000 | 3 or 4      | 380 | 100 | 780 | 500         | KRB0380WF10 |
|                      |                            |      | 5           | 380 | 120 | 780 | 520         | KRB0380WF12 |
|                      | 4000                       | 5000 | 3 or 4      | 460 | 100 | 860 | 500         | KRB0460WF10 |
|                      |                            |      | 5           | 460 | 120 | 860 | 520         | KRB0460WF12 |
|                      | 5000                       | 6300 | 3 or 4      | 540 | 100 | 940 | 500         | KRB0540WF10 |
| 5                    |                            |      | 540         | 120 | 940 | 520 | KRB0540WF12 |             |

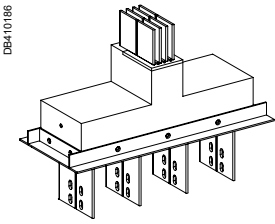


# Feed units

## Standard

### ER•1 - Straight feed unit

A



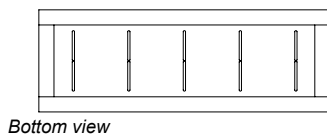
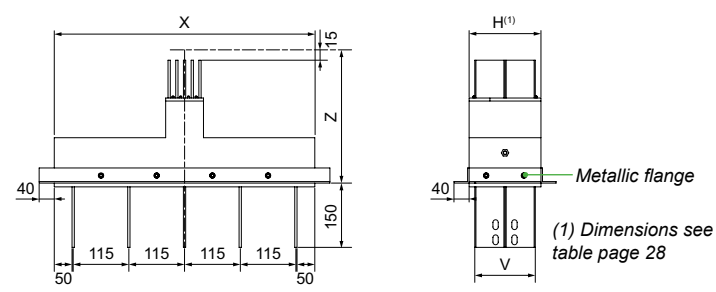
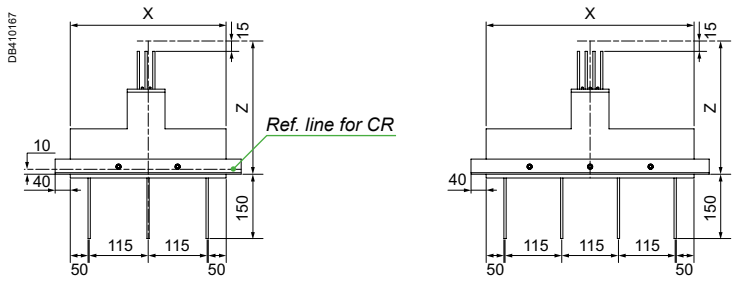
Bare copper or tinned aluminium connection pads

B

C

D

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



Bottom view

| 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 |

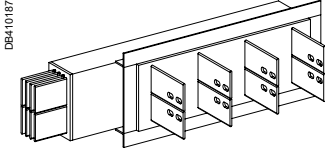
### Dimensions of connection pads for standard end feed units ER•1 and EL•1

| 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 |     |      |      |      |      |      |      |      |      |      |

# Feed units Standard

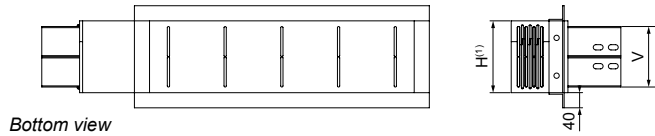
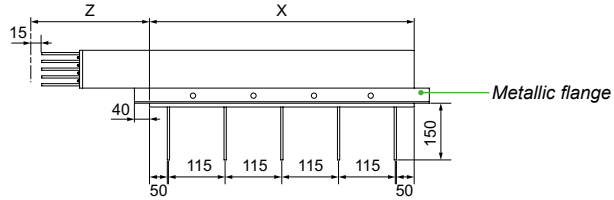
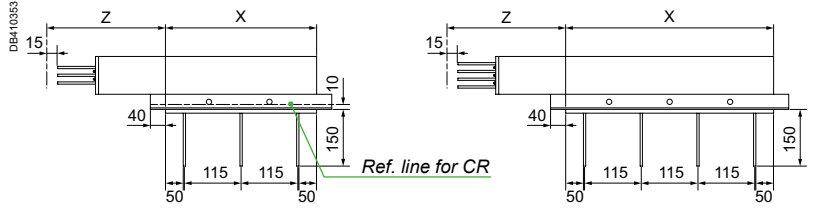


## EL•1 - Long feed unit



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 | 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 |

### 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 |     |       |      |      |      |      |      |      |      |      |
|                               |     |       |      |      |      |      |      |      |      |      |
|                               |     | 40    | 40   | 50   | 40   | 50   | 60   | 40   | 50   | 60   |
|                               |     | 20    |      |      |      |      |      | 190  | 230  | 270  |
|                               |     | 14x26 |      |      |      |      |      |      |      |      |

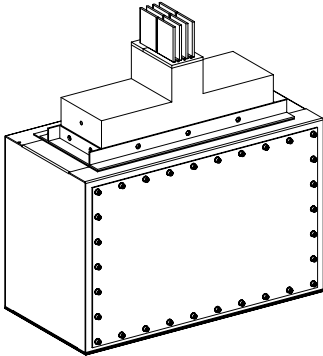
# Feed units

## Standard

### ER●9 - Cable end feed unit

A

DB410188



Bare copper or tinned aluminium connection pads

B

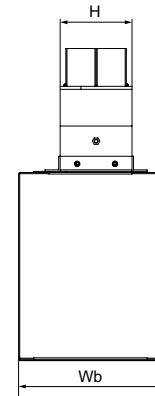
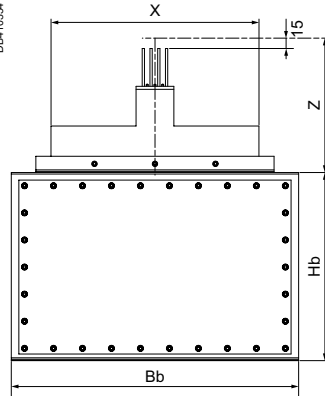
C

D

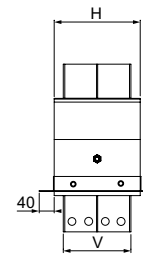
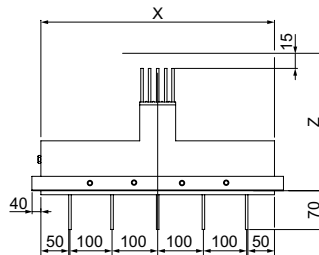
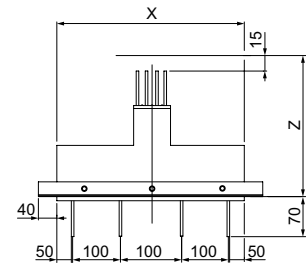
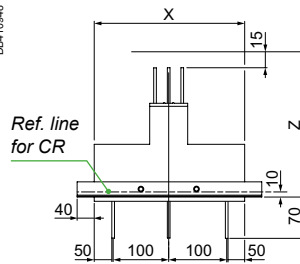
| Type  | Cat. no.    |                             |             |
|-------|-------------|-----------------------------|-------------|
|       | 3L          | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Fixed | KR●●●●●ER39 | KR●●●●●ER49                 | KR●●●●●ER59 |

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

DB410354



DB410948



| Rating of the trunking (A) |      | Element outer dimension (mm) |         |         | Cable-Box outer dimension (mm) |         |         |     |     |     |     |
|----------------------------|------|------------------------------|---------|---------|--------------------------------|---------|---------|-----|-----|-----|-----|
| KRA                        | KRC  | X                            | Z       | H       | Bb                             | Hb      | Wb      |     |     |     |     |
|                            |      | 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

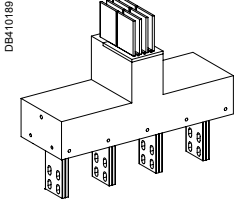
A

B

C

D

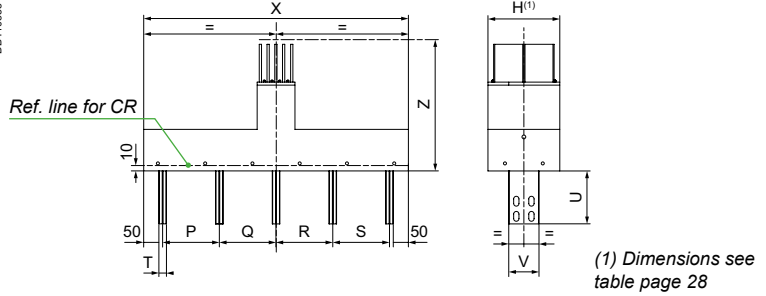
### ER•2 - Straight feed unit



Tinned connection pads

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

DBA10355



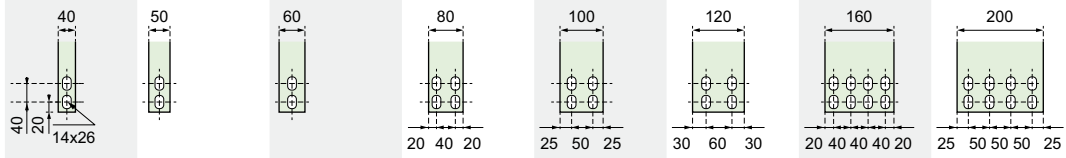
| Polarity    | T* | P, Q min<br>with P + Q < X - 100 - T | X          | U         | Z                |
|-------------|----|--------------------------------------|------------|-----------|------------------|
| 3L          | 6  | 62                                   | 230 to 800 | 90 to 250 | (V + 245) 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 |
| 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 |
| 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 |

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

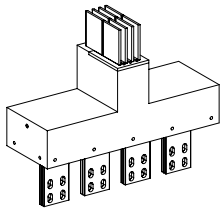
| Rating (A) |      | Bars width (V) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| KRA        | KRC  | 40             | 50 | 60 | 80 | 100 | 120 | 160 | 200 |
| 0800       | 1000 | 12             |    |    |    |     |     | 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



# Feed units

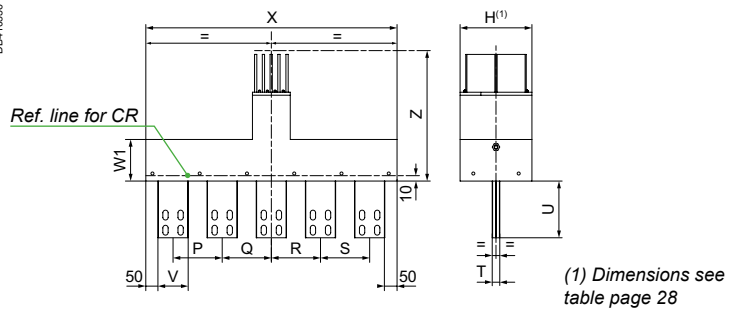
Made to measure

## ER•3 - Straight feed unit



Tinned connection pads

| Type            | Cat. no.    |                             |             |
|-----------------|-------------|-----------------------------|-------------|
|                 | 3L          | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Made to measure | KR•••••ER33 | KR•••••ER43                 | KR•••••ER53 |

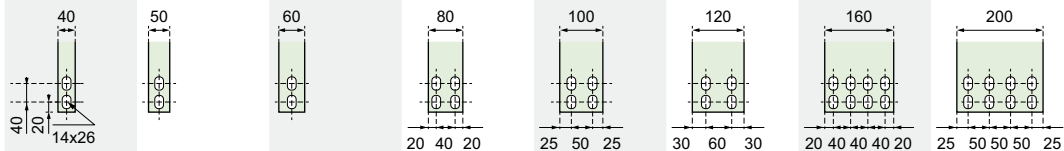


Minimum Phase distance =  $V + 25$  mm.

| Polarity    | V       | W1      | P, Q min<br>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<br>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<br>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  |



**How to order?**

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

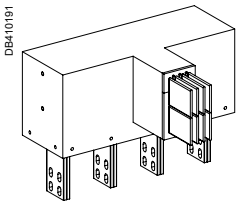
**Example:**

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

**KRC2500EL44**

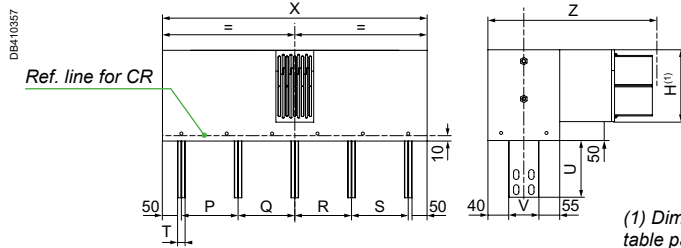
**Z = 345, P = 115, Q = 115, R = 115, U = 180, V = 100**

**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  |



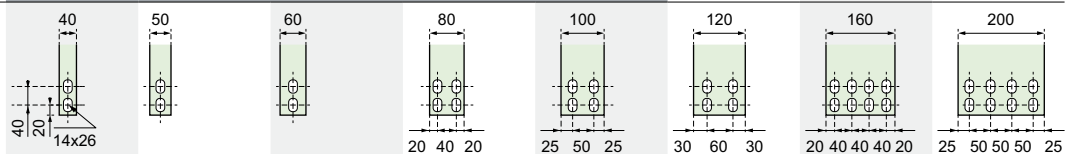
(1) Dimensions see table page 28

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

\* See following table.

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

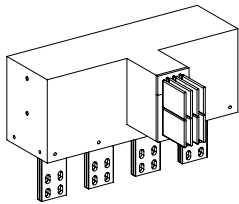
| Rating (A) |      | Bars width (V) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| KRA        | KRC  | 40             | 50 | 60 | 80 | 100 | 120 | 160 | 200 |
| 0800       | 1000 | 12             | 10 | 6  |    |     |     |     |     |
| 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

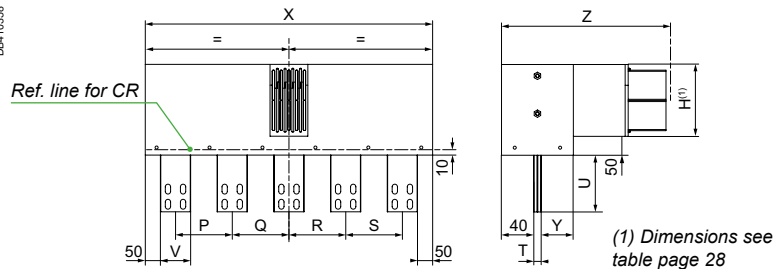
## Made to measure

### ER•5 - Edgewise elbow feed unit



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 |

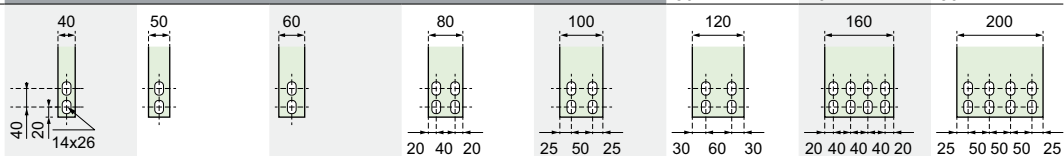


Minimum Phase distance = V + 25 mm.

| Polarity    | V   | P, Q min<br>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<br>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<br>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 |

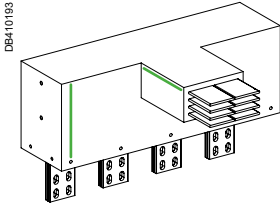
### Possible terminal width (V) and thickness (T) for made to measure feed units only

| 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  |



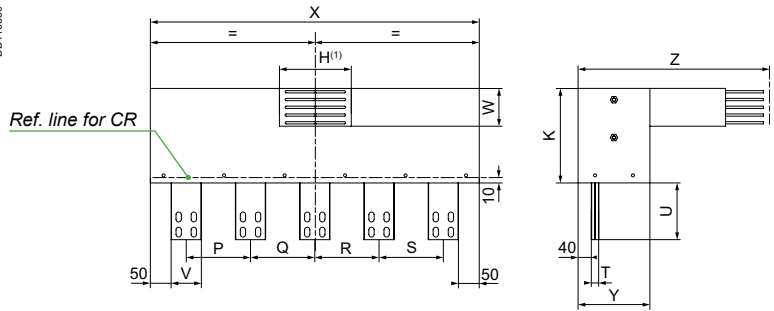


**ER•6 - Flat elbow feed unit**



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 |



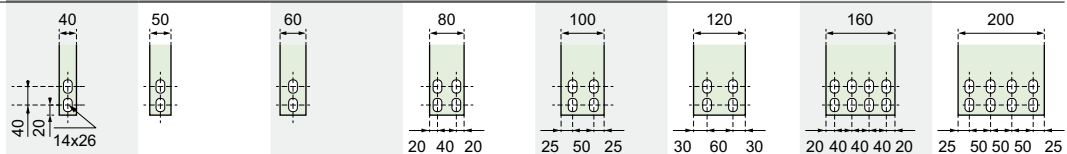
(1) Dimensions see table page 28

Minimum Phase distance =  $V + 25$  mm.

| Polarity    | V   | P, Q min<br>with $P + Q < X - 100 - V$               | X            | Y<br>(max 480) | Z                  | K                  | U         |
|-------------|-----|--|--------------|----------------|--------------------|--------------------|-----------|
| 3L          | 40  | 65   | 270 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 50  | 75   | 300 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 60  | 85   | 330 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 80  | 105  | 390 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 100 | 125  | 450 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 120 | 145  | 510 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 160 | 185  | 630 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
|             | 200 | 225  | 750 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $T + 164$          | 90 to 250 |
| Polarity    | V   | P, Q, R min<br>with $P + Q + R < X - 100 - V$        | X            | Y<br>(max 480) | Z                  | K                  | U         |
| 3L + N      | 40  | 65   | 335 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 50  | 75   | 375 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 60  | 85   | 415 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 80  | 105  | 495 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 100 | 125  | 575 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 120 | 145  | 655 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 160 | 185  | 815 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
|             | 200 | 225  | 975 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $2 \times T + 206$ | 90 to 250 |
| Polarity    | V   | P, Q, R, S min<br>with $P + Q + R + S < X - 100 - V$ | X            | Y<br>(max 480) | Z                  | K                  | U         |
| 3L + N + PE | 40  | 65   | 400 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 50  | 75   | 450 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 60  | 85   | 500 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 80  | 105  | 600 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 100 | 125  | 700 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 120 | 145  | 800 to 1200  | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 160 | 185  | 1000 to 1200 | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 90 to 250 |
|             | 200 | 225  | 1200 to 1200 | $H + T + 130$  | $(Y + 160)$ to 700 | $3 \times T + 248$ | 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 |                |    |    |    | 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:

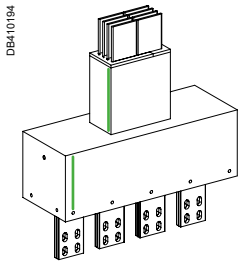
- Rating 2500 A, Conductors in copper, 3L + N
- Distance between bars = 115 mm
- Bars length = 180 mm
- Bars wide = 100 mm.

B

**KRC2500EL47**

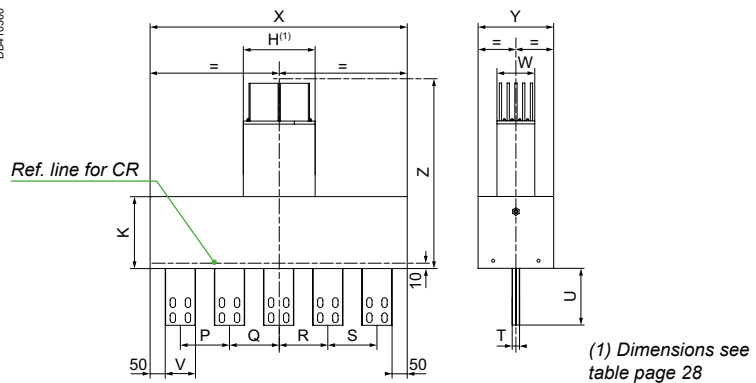
**Z = 490, P = 115, Q = 115, R = 115, U = 180, V = 100**

### ER●7 - Straight feed unit



Tinned connection pads

| Type            | Cat. no.   |                             |             |
|-----------------|------------|-----------------------------|-------------|
|                 | 3L         | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Made to measure | KR●●●●ER37 | KR●●●●ER47                  | KR●●●●ER57  |



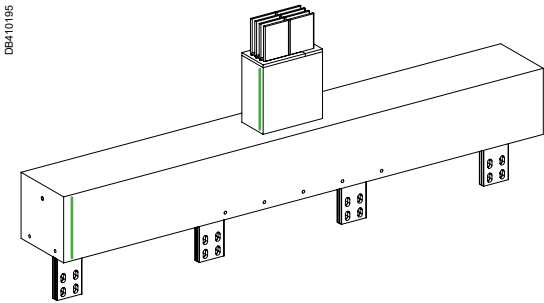
Minimum Phase distance = V + 25 mm.

| Polarity    | V   | P, Q min<br>with P + Q < X - 100 - V | X            | K<br>(max 370) | Z                | Y           | U         |
|-------------|-----|--------------------------------------|--------------|----------------|------------------|-------------|-----------|
| 3L          | 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 |
| 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 |
| 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 |
| 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 |

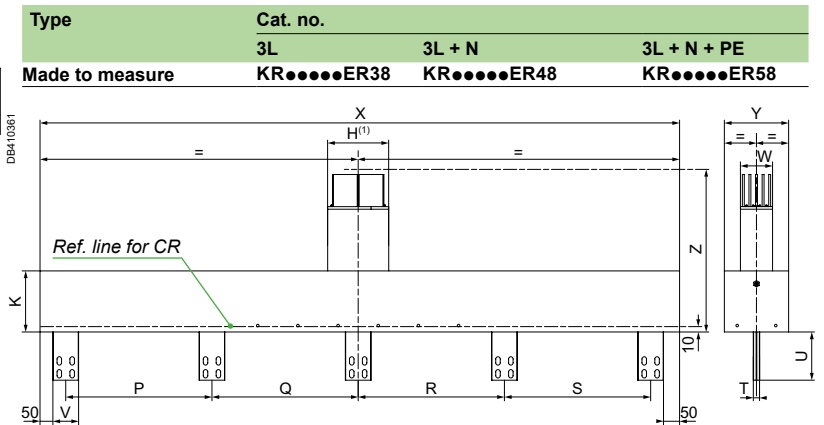
D



**ER•8 - Straight feed unit dry TR**



Tinned connection pads

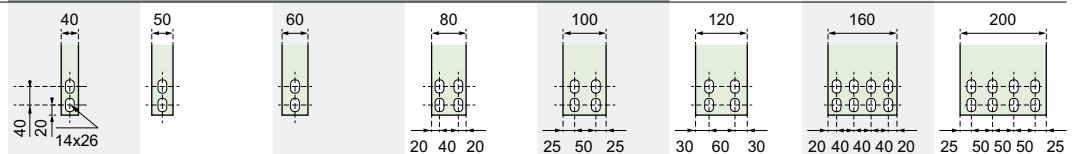


(1) Dimensions see table page 28

| Polarity    | V   | P, Q min<br>with $P + Q < X - 100 - V$               | X            | K<br>(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<br>with $P + Q + R < X - 100 - V$        | X            | K<br>(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<br>with $P + Q + R + S < X - 100 - V$ | X            | K<br>(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**

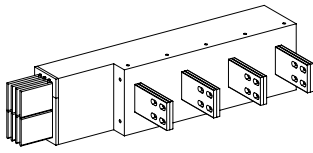
| Rating (A) |      | Bars width (V) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| KRA        | KRC  | 40             | 50 | 60 | 80 | 100 | 120 | 160 | 200 |
| 0800       | 1000 | 12             | 10 | 6  |    |     |     |     |     |
| 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 |                |    |    |    | 40  | 30  | 20  | 20  |
| 4000       | 5000 |                |    |    |    | 50  | 40  | 30  | 20  |
| 5000       | 6300 |                |    |    |    |     | 50  | 40  | 30  |



# Feed units

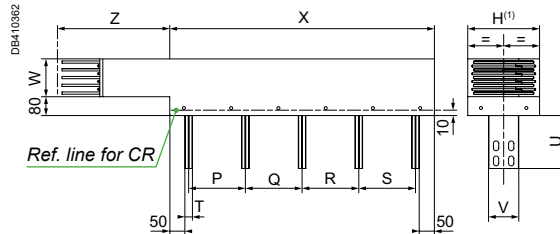
## Made to measure

### 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 |



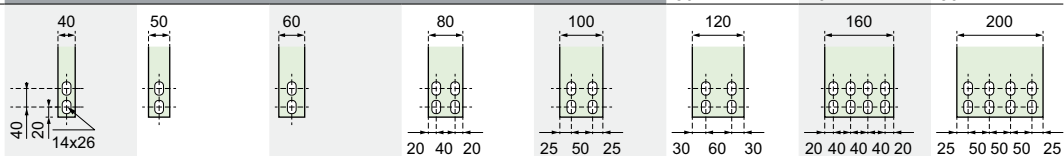
(1) Dimensions see table page 28

| Polarity    | T*  | P, Q min<br>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<br>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<br>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) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| 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  |





**How to order?**

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

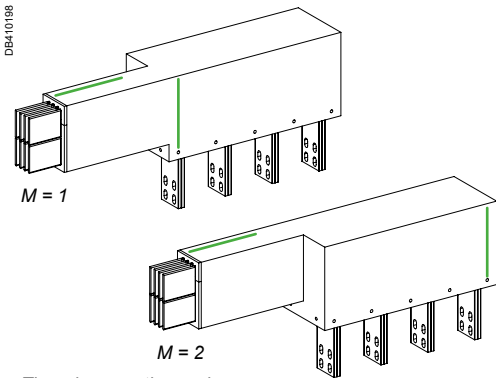
**Example:**

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

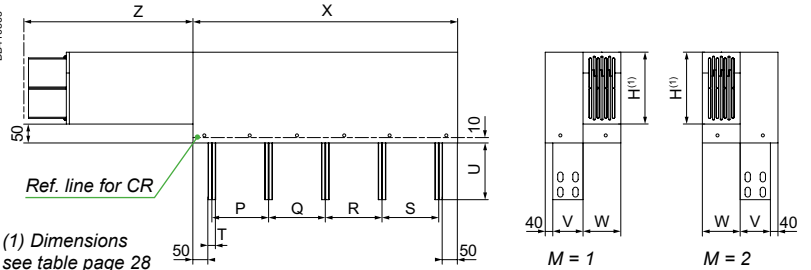
**KRC2500EL43**

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

**EL●3 - Long feed unit**



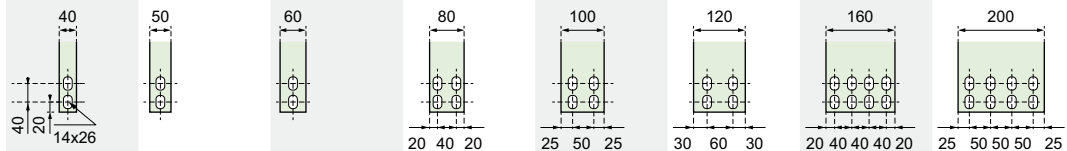
| Type            | Cat. no.   |                             |             |
|-----------------|------------|-----------------------------|-------------|
|                 | 3L         | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
| Made to measure | KR●●●●EL33 | KR●●●●EL43                  | KR●●●●EL53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



| 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          | Y         |
| 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          | Y         |
| 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**

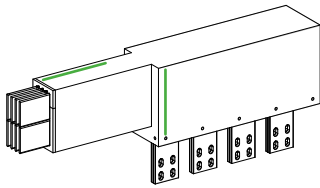
| Rating (A) |      | Bars width (V) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| KRA        | KRC  | 40             | 50 | 60 | 80 | 100 | 120 | 160 | 200 |
| 0800       | 1000 | 12             | 10 | 6  |    |     |     |     |     |
| 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  |



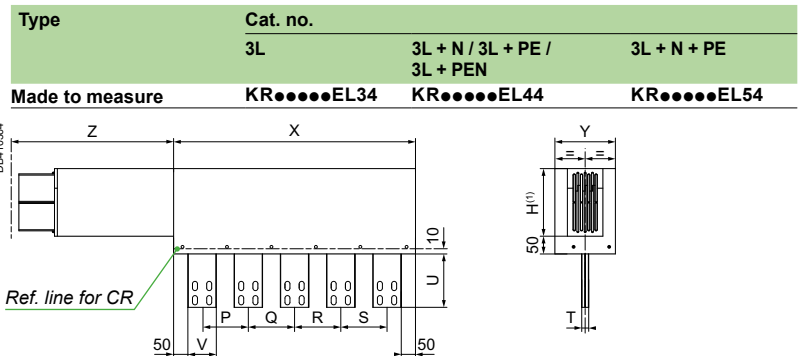
# Feed units

Made to measure

## EL•4 - Long feed unit



Tinned connection pads



(1) Dimensions see table page 28

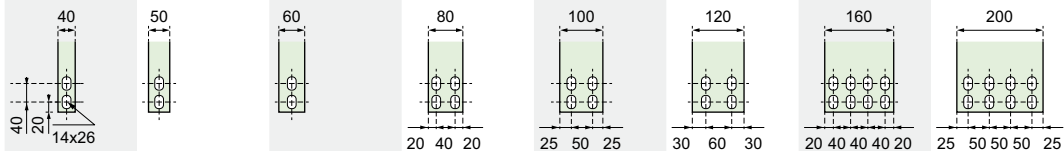
Minimum Phase distance =  $V + 25$  mm.

| Polarity    | V   | P, Q min<br>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<br>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<br>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) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| 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

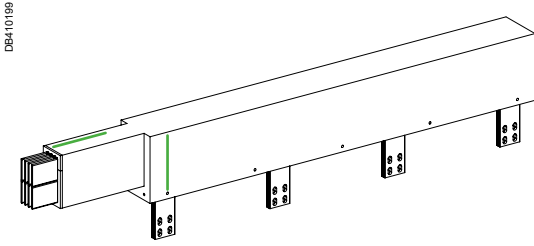
A

B

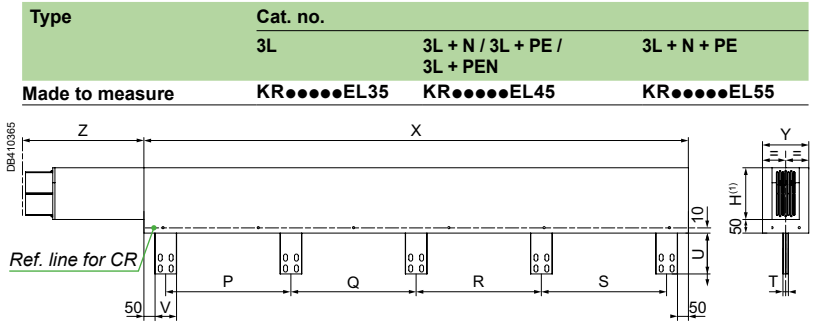
C

D

### EL•5 - Long feed unit dry TR



Tinned connection pads

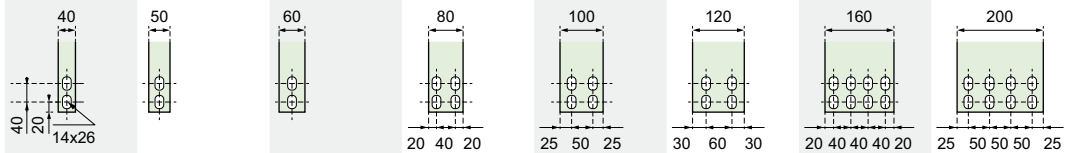


(1) Dimensions see table page 28

| Polarity    | V   | P, Q min<br>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<br>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<br>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

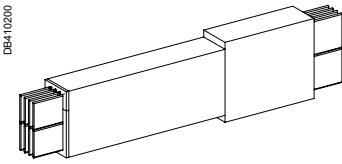
| Rating (A) |      | Bars width (V) |    |    |    |     |     |     |     |
|------------|------|----------------|----|----|----|-----|-----|-----|-----|
| KRA        | KRC  | 40             | 50 | 60 | 80 | 100 | 120 | 160 | 200 |
| 0800       | 1000 | 12             | 10 | 6  |    |     |     |     |     |
| 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  |



# Fire resistant elements

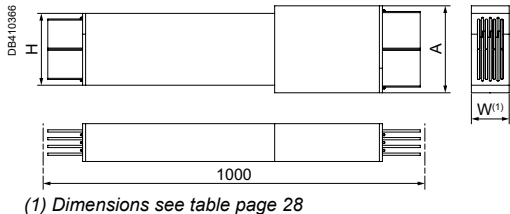
## RU - Reduction unit

A



DB410200

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



| 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 |

(1) Dimensions see table page 28

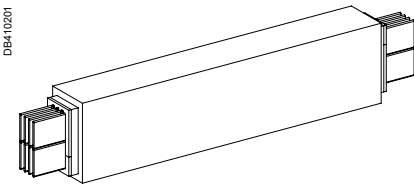
The nominal rating of this unit corresponds to the maximum capacity of the small side. The large side has the dimensions of the upper rating.

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

B

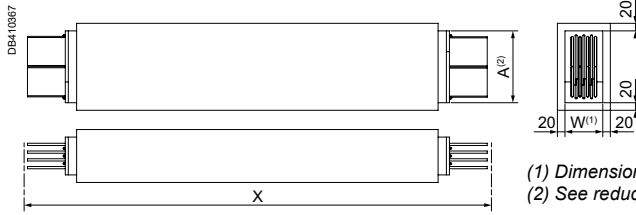
## FT - Fire rated straight length

C



DB410201

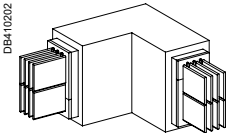
| Type            | Length "X" (mm) | Cat. no.     | 3L           | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-----------------|-----------------|--------------|--------------|-----------------------------|-------------|
| Made to measure | 500 to 1000     | KR●●●●●FT310 | KR●●●●●FT410 | KR●●●●●FT510                |             |
|                 | 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                |             |



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

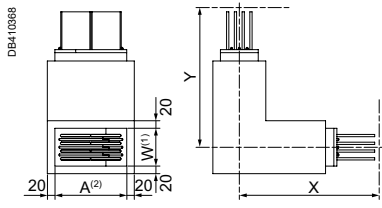
D

## FP - Fire rated flat elbow



DB410202

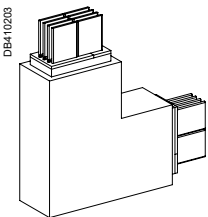
| Type            | Cat. no.      | 3L          | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-----------------|---------------|-------------|-----------------------------|-------------|
| Fixed           |               | KR●●●●●FP3A | KR●●●●●FP4A                 | KR●●●●●FP5A |
| Made to measure | Short branche | KR●●●●●FP3B | KR●●●●●FP4B                 | KR●●●●●FP5B |
|                 | Long branche  | KR●●●●●FP3C | KR●●●●●FP4C                 | KR●●●●●FP5C |



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

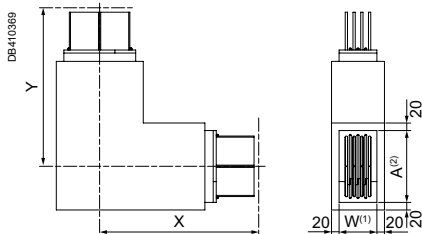
| Rating (A)  |              | FP●A |     | FP●B       |            |           | FP●C        |             |           |
|-------------|--------------|------|-----|------------|------------|-----------|-------------|-------------|-----------|
| KRA         | KRC          | X    | Y   | X          | 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.      | 3L          | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-----------------|---------------|-------------|-----------------------------|-------------|
| Fixed           |               | KR●●●●●FC3A | KR●●●●●FC4A                 | KR●●●●●FC5A |
| Made to measure | Short branche | KR●●●●●FC3B | KR●●●●●FC4B                 | KR●●●●●FC5B |



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

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

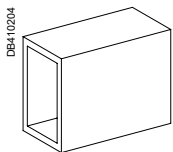
A

B

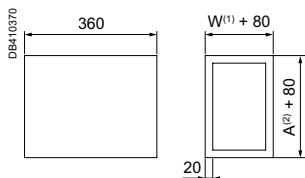
C

D

### FM - Fire rated casting mould

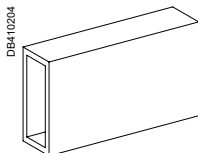


| Type                     | Rating of the trunking (A) |        | Nb of cond. | Cat. no.    |
|--------------------------|----------------------------|--------|-------------|-------------|
|                          | KRA                        | KRC    |             |             |
| Fire rated casting mould | 0800                       | 1000   | 3 or 4      | KRB0110FM10 |
|                          |                            |        | 5           | KRB0110FM12 |
|                          | 1000                       | 1350   | 3 or 4      | KRB0130FM10 |
|                          |                            |        | 5           | KRB0130FM12 |
|                          | 1250                       | 1600   | 3 or 4      | KRB0190FM10 |
|                          |                            |        | 5           | KRB0190FM12 |
|                          | 1600                       | 2000   | 3 or 4      | KRB0230FM10 |
|                          |                            |        | 5           | KRB0230FM12 |
|                          | 2000                       | 2500   | 3 or 4      | KRB0270FM10 |
|                          |                            |        | 5           | KRB0270FM12 |
|                          | 2500                       | 3200   | 3 or 4      | KRB0380FM10 |
|                          |                            |        | 5           | KRB0380FM12 |
|                          | 3200                       | 4000   | 3 or 4      | KRB0460FM10 |
|                          |                            |        | 5           | KRB0460FM12 |
| 4000                     | 5000                       | 3 or 4 | KRB0540FM10 |             |
|                          |                            | 5      | KRB0540FM12 |             |

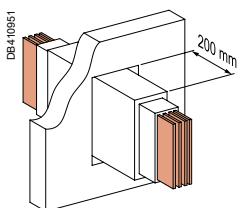


(1) Dimensions see table page 28  
(2) See reduction unit table page 52

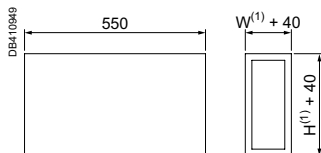
### CF - Fire barrier S120



| Type                              | Rating of the trunking (A) |        | Nb of cond. | Cat. no.    |
|-----------------------------------|----------------------------|--------|-------------|-------------|
|                                   | KRA                        | KRC    |             |             |
| Composed of single unit of 550 mm | 0800                       | 1000   | 3, 4 or 5   | KRB0090CF09 |
|                                   |                            |        | 3 or 4      | KRB0110CF10 |
|                                   | 1250                       | 1600   | 3 or 4      | KRB0110CF12 |
|                                   |                            |        | 5           | KRB0130CF10 |
|                                   | 1600                       | 2000   | 3 or 4      | KRB0130CF12 |
|                                   |                            |        | 5           | KRB0190CF10 |
|                                   | 2000                       | 2500   | 3 or 4      | KRB0190CF12 |
|                                   |                            |        | 5           | KRB0230CF10 |
|                                   | 2500                       | 3200   | 3 or 4      | KRB0230CF12 |
|                                   |                            |        | 5           | KRB0270CF10 |
|                                   | 3200                       | 4000   | 3 or 4      | KRB0270CF12 |
|                                   |                            |        | 5           | KRB0380CF10 |
|                                   | 4000                       | 5000   | 3 or 4      | KRB0380CF12 |
|                                   |                            |        | 5           | KRB0460CF10 |
| 5000                              | 6300                       | 3 or 4 | KRB0460CF12 |             |
|                                   |                            | 5      | KRB0540CF10 |             |
|                                   |                            |        | 5           | KRB0540CF12 |



Fire barrier kit (Promatec 200)

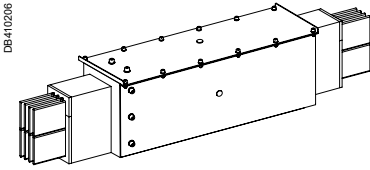


(1) Dimensions see table page 28

# Other run sections

## DB - Expansion unit

A



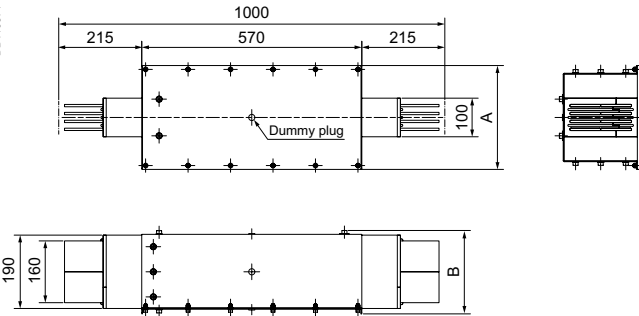
DB410206

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

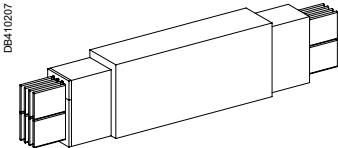
DB410371



C

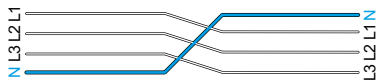
D

## TN - Neutral crossover

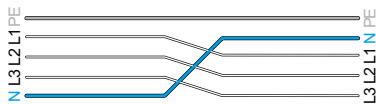


DB410207

| Type  | Length "X" (mm) | Cat. no. | 3L | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-------|-----------------|----------|----|-----------------------------|-------------|
| Fixed | 1000            | -        |    | KR●●●●TN4                   | KR●●●●TN5   |

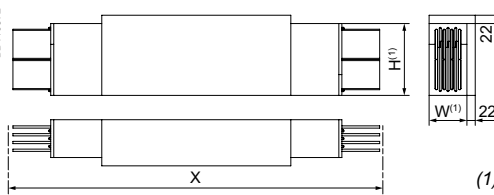


KR●●●●TN4



KR●●●●TN5

DB410372



(1) Dimensions see table page 28

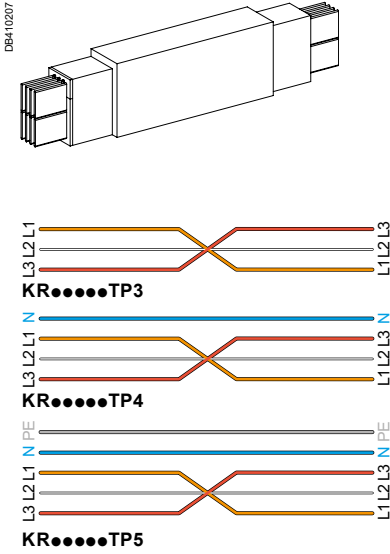
A

B

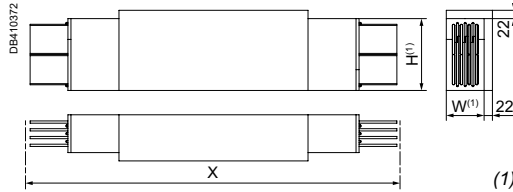
C

D

### TP - Phase crossover

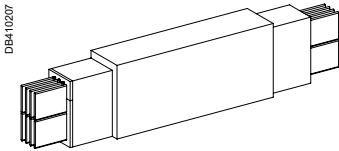


| Type  | Length "X" (mm) | Cat. no. | 3L       | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-------|-----------------|----------|----------|-----------------------------|-------------|
| Fixed | 1000            | KR...TP3 | KR...TP4 | KR...TP5                    |             |

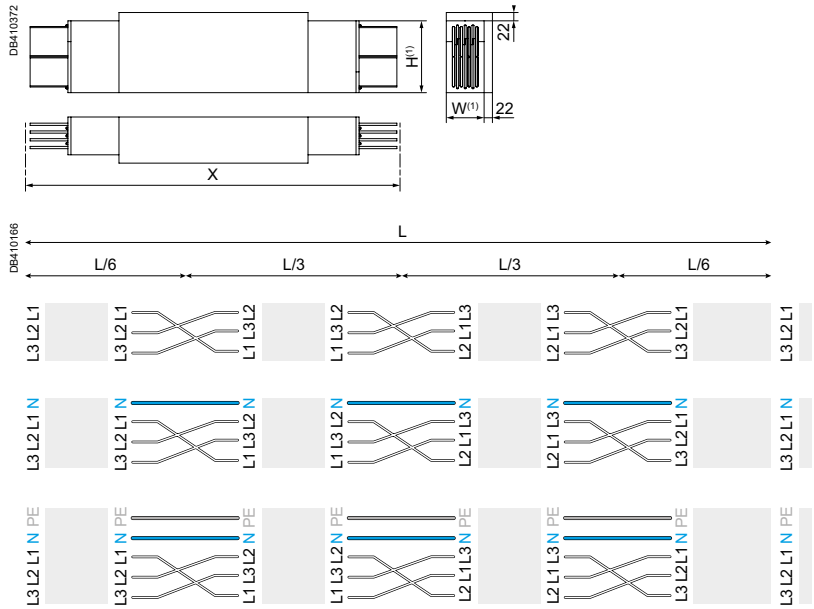


### TO - Phases balance

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.



| Type  | Length "X" (mm) | Cat. no. | 3L       | 3L + N / 3L + PE / 3L + PEN | 3L + N + PE |
|-------|-----------------|----------|----------|-----------------------------|-------------|
| Fixed | 1000            | KR...TO3 | KR...TO4 | KR...TO5                    |             |

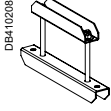




A

### ZA1 - Horizontal flat support

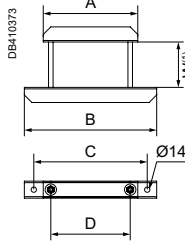
Sheet metals and bolts are made of stainless steel 316.



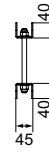
DB410208

| 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 |

| 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 |



DB410373



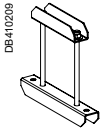
(1) Dimensions see table page 28

C

D

### ZA2 - Horizontal edgewise support

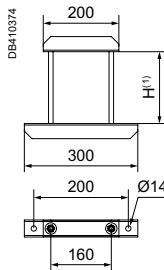
Sheet metals and bolts are made of stainless steel 316.



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 |

| 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             |



DB410374



(1) Dimensions see table page 28

A

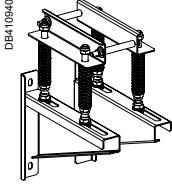
B

C

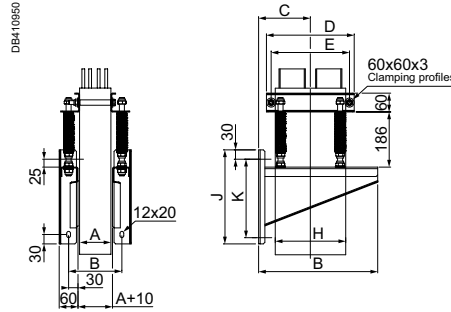
D

### ZA5 - Vertical wall spring support

Sheet metals and bolts are made of stainless steel 316.



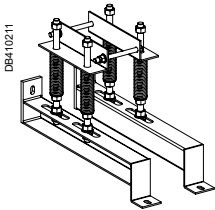
| Type                         | Cat. no.   |            |
|------------------------------|------------|------------|
|                              | 3, 4 cond. | 5 cond.    |
| Vertical wall spring support | KR●●●●ZA45 | KR●●●●ZA55 |



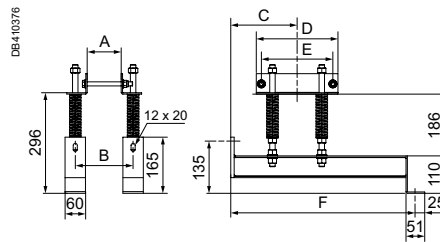
| Rating (A) |      | Nb of cond. | Dimensions (mm) |     |     |         |     |     |     |     |     |             |
|------------|------|-------------|-----------------|-----|-----|---------|-----|-----|-----|-----|-----|-------------|
| KRA        | KRC  |             | H               | A   | B   | 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.



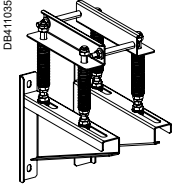
| Type                         | Cat. no.   |            |
|------------------------------|------------|------------|
|                              | 3, 4 cond. | 5 cond.    |
| Vertical wall spring support | KR●●●●ZA46 | KR●●●●ZA56 |



| 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 |  |

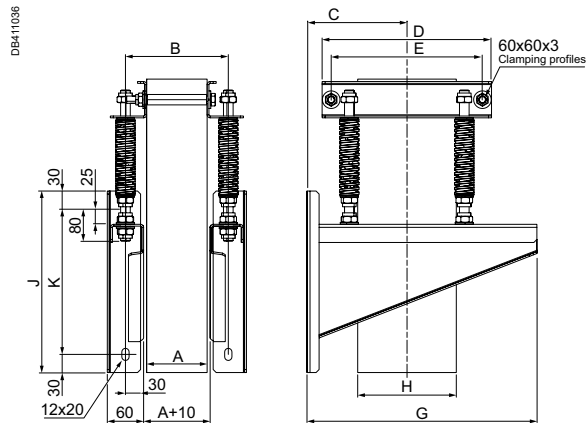
### ZA7 - Vertical wall fix point support

Sheet metals and bolts are made of stainless steel 316.



DB411035

| 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) |     |     |         |     |     |     |     | Nb of slots |   |
|------------|------|-------------|-----------------|-----|-----|---------|-----|-----|-----|-----|-------------|---|
| KRA        | KRC  |             | H               | A   | B   | C       | D   | E   | G   | J   |             | K |
| 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 |

A

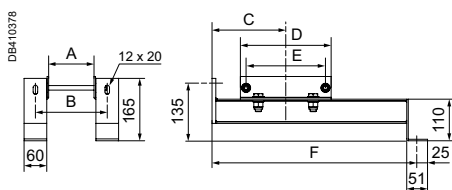
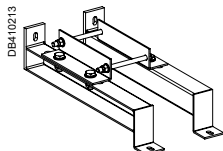
B

C

D

### ZA8 - Vertical floor fix point support

Sheet metals and bolts are made of stainless steel 316.

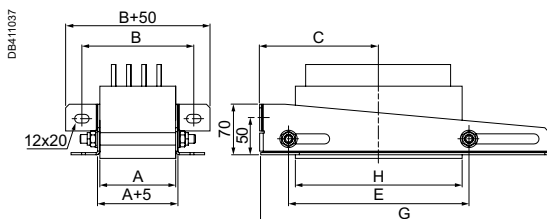
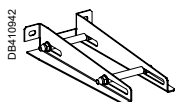


| Type                             | Rating of the trunking (A) |      | Cat. no.    |             |
|----------------------------------|----------------------------|------|-------------|-------------|
|                                  | KRA                        | KRC  | 3, 4 cond.  | 5 cond.     |
| Vertical floor fix point support | 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       | 1000 | 3 or 4      | 90              | 90  | 160 | 95 to 145  | 140 | 110 | 430 |
|            |      | 5           | 90              | 90  | 160 | 95 to 145  | 140 | 110 | 430 |
| 1000       | 1350 | 3 or 4      | 110             | 100 | 170 | 105 to 155 | 160 | 130 | 550 |
|            |      | 5           | 110             | 120 | 190 | 105 to 155 | 160 | 130 | 550 |
| 1250       | 1600 | 3 or 4      | 130             | 100 | 170 | 115 to 165 | 180 | 150 | 550 |
|            |      | 5           | 130             | 120 | 190 | 115 to 165 | 180 | 150 | 550 |
| 1600       | 2000 | 3 or 4      | 190             | 100 | 170 | 145 to 195 | 240 | 210 | 550 |
|            |      | 5           | 190             | 120 | 190 | 145 to 195 | 240 | 210 | 550 |
| 2000       | 2500 | 3 or 4      | 230             | 100 | 170 | 165 to 215 | 280 | 250 | 550 |
|            |      | 5           | 230             | 120 | 190 | 165 to 215 | 280 | 250 | 550 |
| 2500       | 3200 | 3 or 4      | 270             | 100 | 170 | 185 to 235 | 320 | 290 | 550 |
|            |      | 5           | 270             | 120 | 190 | 185 to 235 | 320 | 290 | 550 |
| 3200       | 4000 | 3 or 4      | 380             | 100 | 170 | 240 to 290 | 430 | 400 | 660 |
|            |      | 5           | 380             | 120 | 190 | 240 to 290 | 430 | 400 | 660 |
| 4000       | 5000 | 3 or 4      | 460             | 100 | 170 | 280 to 330 | 510 | 480 | 820 |
|            |      | 5           | 460             | 120 | 190 | 280 to 330 | 510 | 480 | 820 |
| 5000       | 6300 | 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        | 1000 | 3 or 4      | 90              | 90  | 135 | 90-145  | 110 | 220 |
|            |      | 5           | 90              | 90  | 135 | 90-145  | 110 | 220 |
| 1000       | 1350 | 3 or 4      | 110             | 100 | 155 | 105-155 | 130 | 280 |
|            |      | 5           | 110             | 120 | 175 | 105-155 | 130 | 280 |
| 1250       | 1600 | 3 or 4      | 130             | 100 | 155 | 115-165 | 150 | 280 |
|            |      | 5           | 130             | 120 | 175 | 115-165 | 150 | 280 |
| 1600       | 2000 | 3 or 4      | 190             | 100 | 155 | 145-195 | 210 | 320 |
|            |      | 5           | 190             | 120 | 175 | 145-195 | 210 | 320 |
| 2000       | 2500 | 3 or 4      | 230             | 100 | 155 | 165-215 | 250 | 400 |
|            |      | 5           | 230             | 120 | 175 | 165-215 | 250 | 400 |
| 2500       | 3200 | 3 or 4      | 270             | 100 | 155 | 185-235 | 290 | 400 |
|            |      | 5           | 270             | 120 | 175 | 185-235 | 290 | 400 |
| 3200       | 4000 | 3 or 4      | 380             | 100 | 155 | 240-290 | 400 | 510 |
|            |      | 5           | 380             | 120 | 175 | 240-290 | 400 | 510 |
| 4000       | 5000 | 3 or 4      | 460             | 100 | 155 | 280-330 | 480 | 590 |
|            |      | 5           | 460             | 120 | 175 | 280-330 | 480 | 590 |
| 5000       | 6300 | 3 or 4      | 540             | 100 | 155 | 320-370 | 560 | 670 |
|            |      | 5           | 540             | 120 | 175 | 320-370 | 560 | 670 |

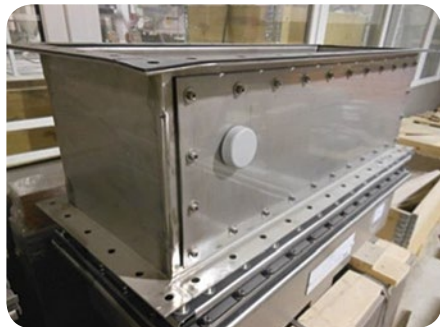
# Protective flanges and covers

## How to connect Canalis KR?

A



B

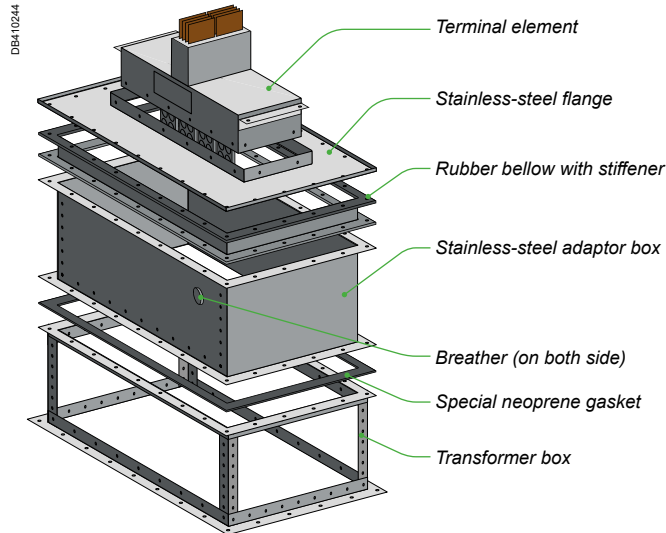


C

D

### 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, sealings 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

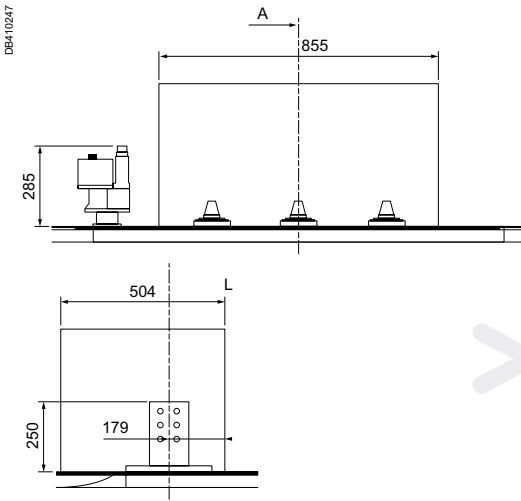
| Rating (A)                   | KRA | 0800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 |
|------------------------------|-----|------|------|------|------|------|------|------|------|------|
|                              | KRC | 1000 | 1350 | 1600 | 2000 | 2500 | 3200 | 4000 | 5000 | 6300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

#### 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
- $X = 170 + 170 + 170 + 120 + 100 = 730$  mm
- $Y = V + 84 = 120 + 84 = 224$  mm
- $M = 300$  mm
- Dimensions from the transformer box are

$A = 504 - 179 = 325$ ,  $B = 179$ ,  $C = 855 / 2 = 427.5$ ,  $D = 855 / 2 = 427.5$   
 $E = 52$ ,  $F = 100$ ,  $G = 5$ ,  $H = 27.5$ ,  $L = 100$ ,  $J = 9$ ,  $K = 12$ .

#### KRB0020CR3

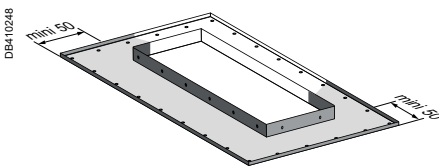
**A = 325, B = 179, C = 427, D = 428, E = 52, F = 100, G = 5, H = 27, L = 100, J = 9, K = 12, X = 730, Y = 224, M = 300**

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.



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:

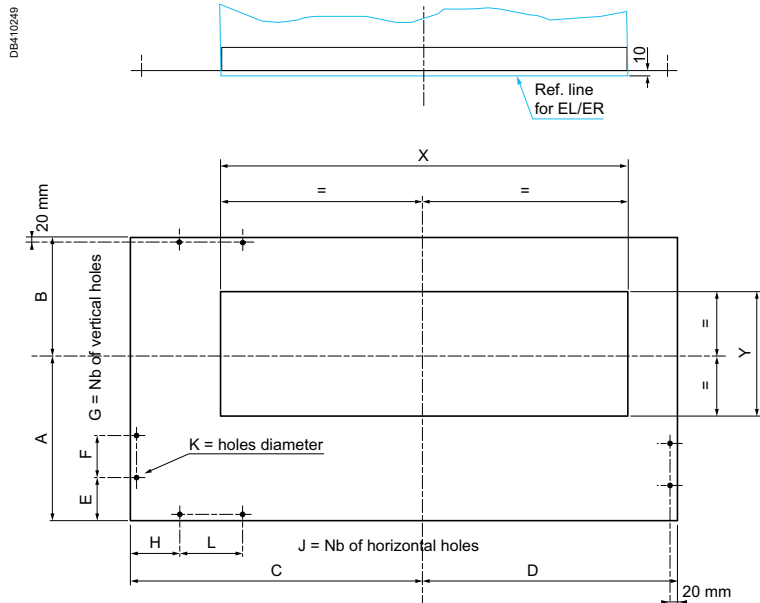
- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |

| 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 |



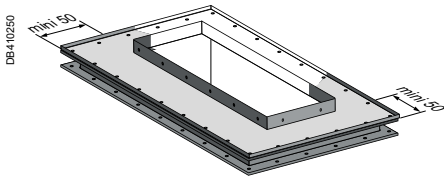
K = diameter of holes = diameter of screws + 4 mm.



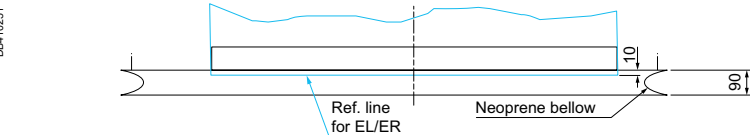
# Protective flanges and covers

## CR2 - Protective flange with bellow IP55

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



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



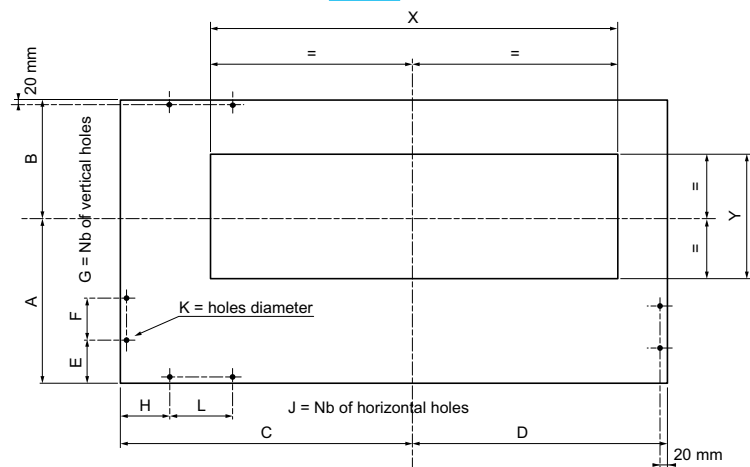
Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |



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       |
| 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       |
| 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       |
| 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       |
| 5000       | 6300 | 320 to 380      | 320 to 380 | 700            | 200 to 1100 | 200 to 1100 | 1300           | 100 to 350  | 100 to 400 |
|            |      |                 |            |                |             |             |                |             |            |

# Catalogue numbers and dimensions

## Protective flanges and covers

A

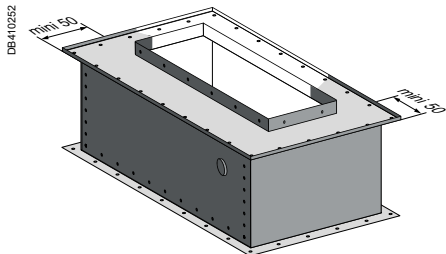
B

C

D

### CR3 - Protective cover IP55

Sheet metals and bolts are made of stainless steel 316.  
Bellow 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:

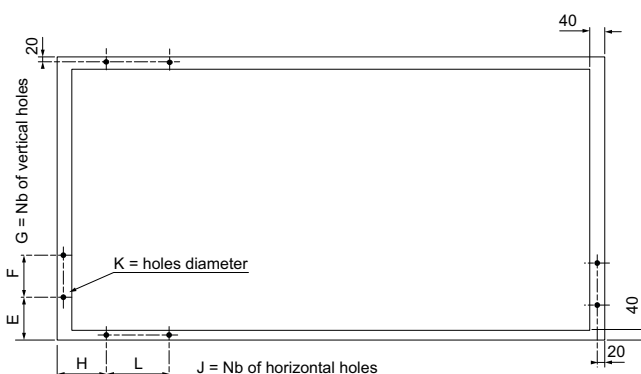
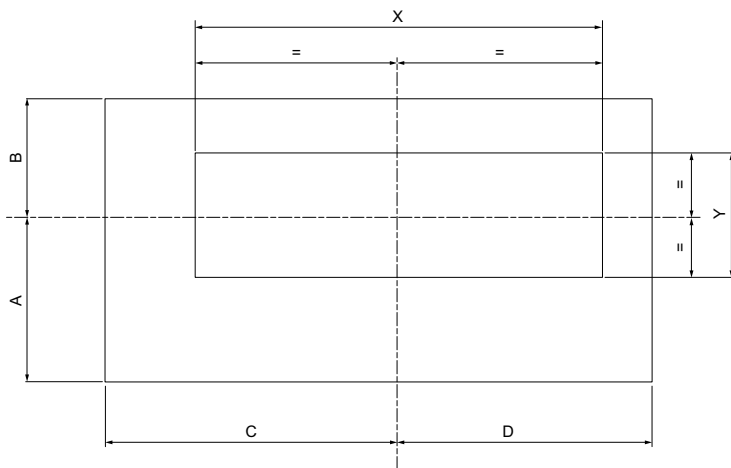
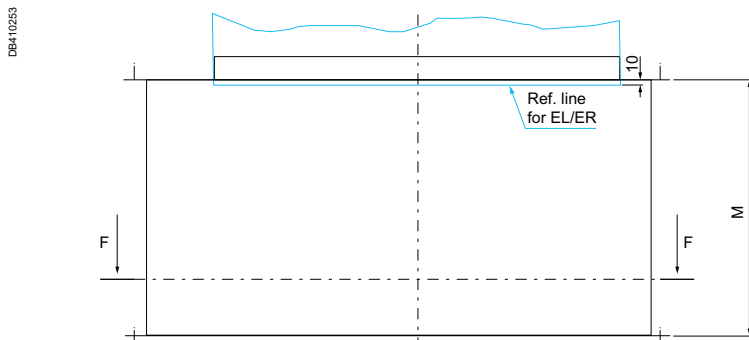
- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |

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



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

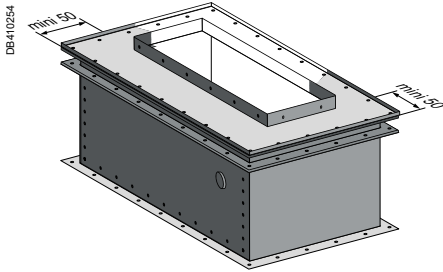
NOTE: For maximum height of protective covers refer to CR2 protective flange with below IP55 table.

# Catalogue numbers and dimensions

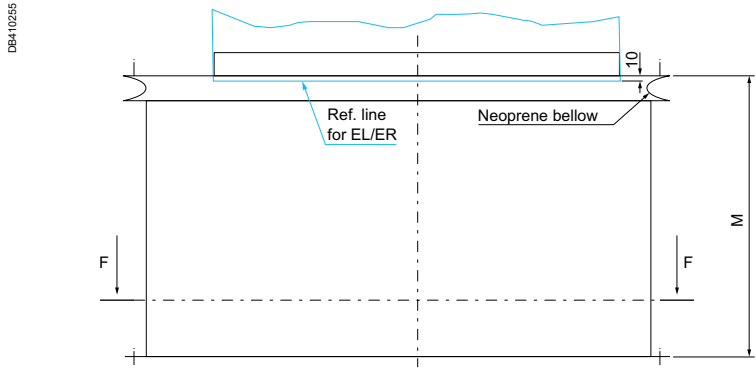
## Protective flanges and covers

### CR4 - Protective cover with bellow IP55

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



| Type            | KRA          | KRC          | Cat. no.   |
|-----------------|--------------|--------------|------------|
| Made to measure | 0800 to 1250 | 1000 to 1600 | KRB0010CR4 |
|                 | 1600 to 2500 | 2000 to 3200 | KRB0020CR4 |
|                 | 3200 to 5000 | 4000 to 6300 | KRB0030CR4 |



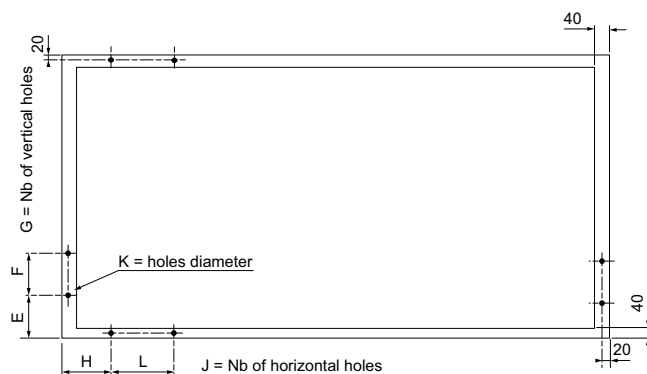
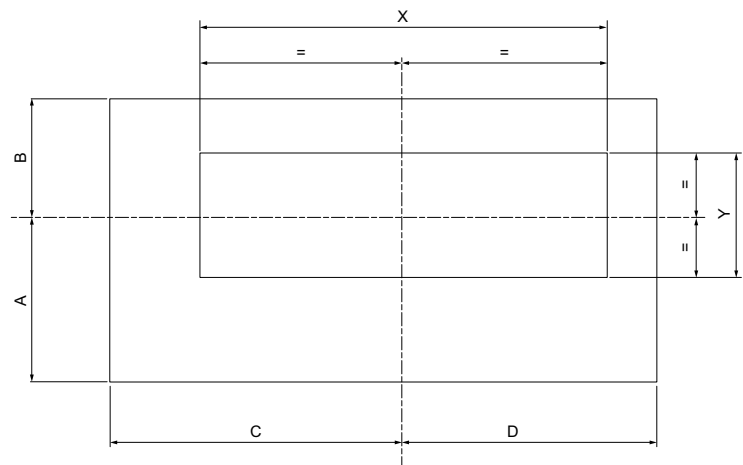
Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |



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

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

A

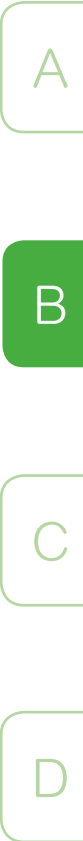
B

C

D

# Catalogue numbers and dimensions

## Protective flanges and covers

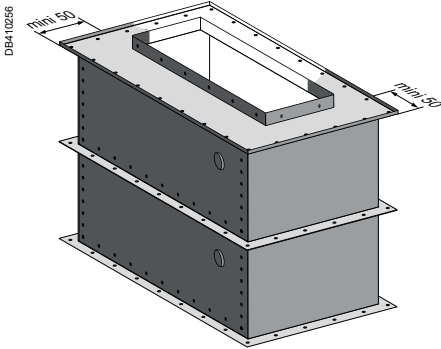


### CR5 - Protective cover with extra transformer box IP55

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. Bellow and gasket are made of neoprene.

| Type            | KRA          | KRC          | Cat. no.          |
|-----------------|--------------|--------------|-------------------|
| Made to measure | 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> |



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:

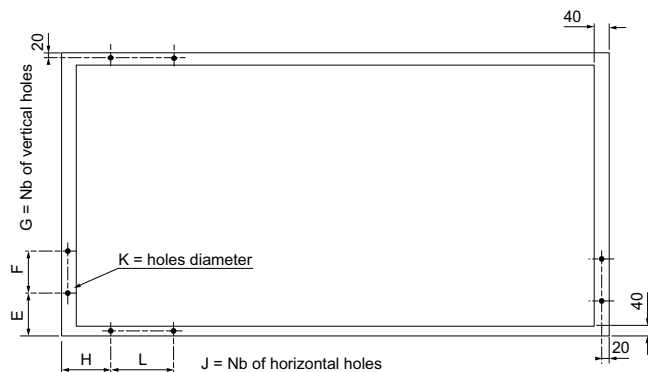
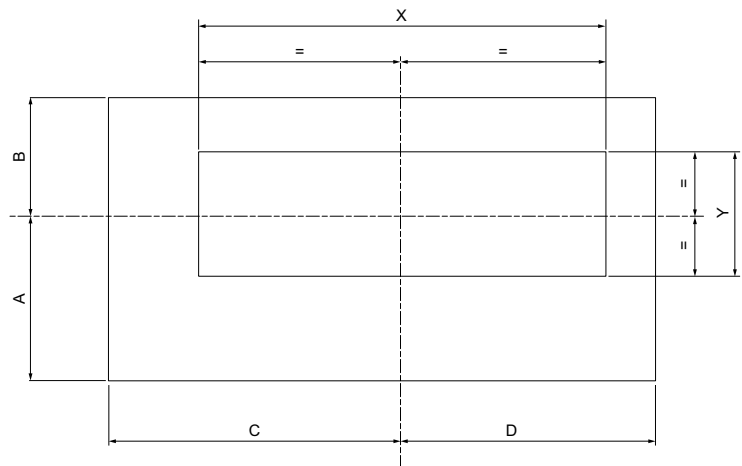
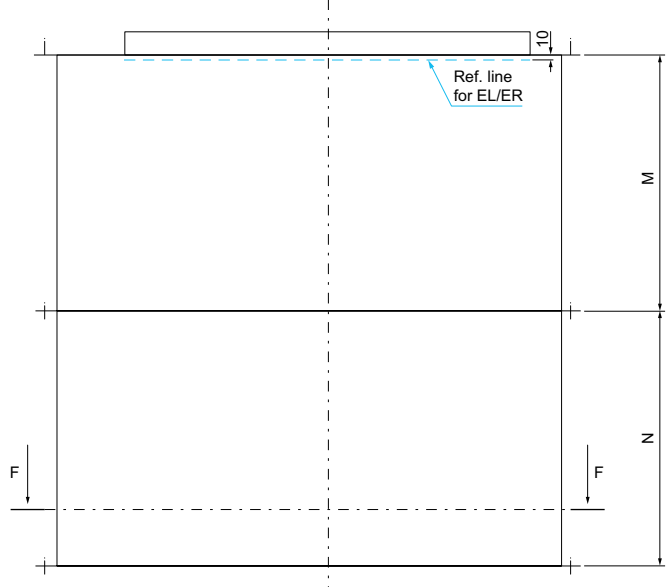
- $X = P + Q + T + 100$  or  $X = P + Q + V + 100$  if 3 cond.
- $X = P + Q + R + T + 100$  or  $X = P + Q + R + V + 100$  if 4 cond.
- $X = P + Q + R + S + T + 100$  or  $X = P + Q + R + S + V + 100$  if 5 cond.

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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |

DB410257



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

### CR6 - Protective cover with extra transformer box and bellow 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. Bellow and gasket are made of neoprene.

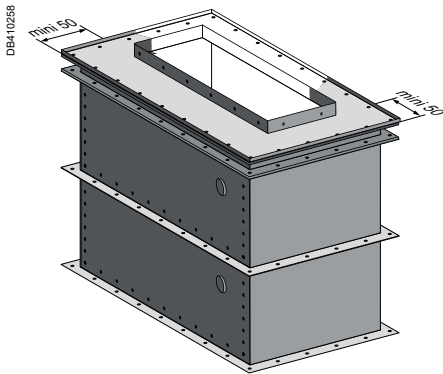
| Type            | KRA          | KRC          | Cat. no.          |
|-----------------|--------------|--------------|-------------------|
| Made to measure | 0800 to 1250 | 1000 to 1600 | <b>KRB0010CR6</b> |
|                 | 1600 to 2500 | 2000 to 3200 | <b>KRB0020CR6</b> |
|                 | 3200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

A

B

C

D



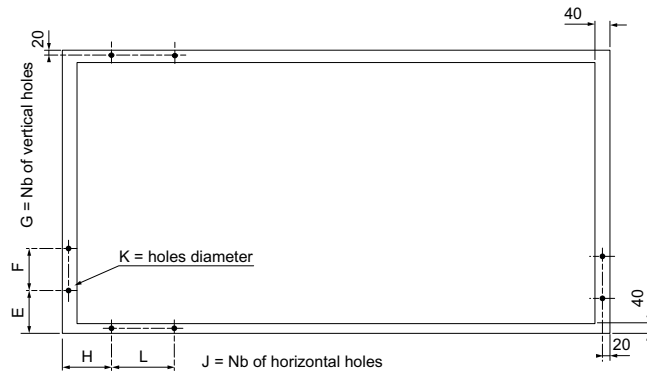
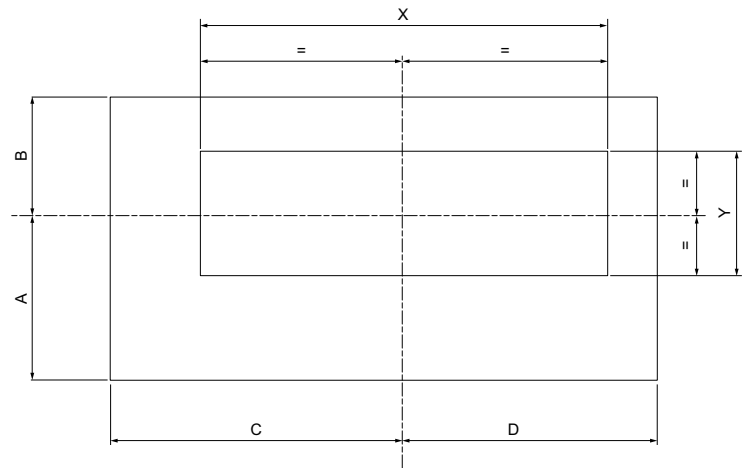
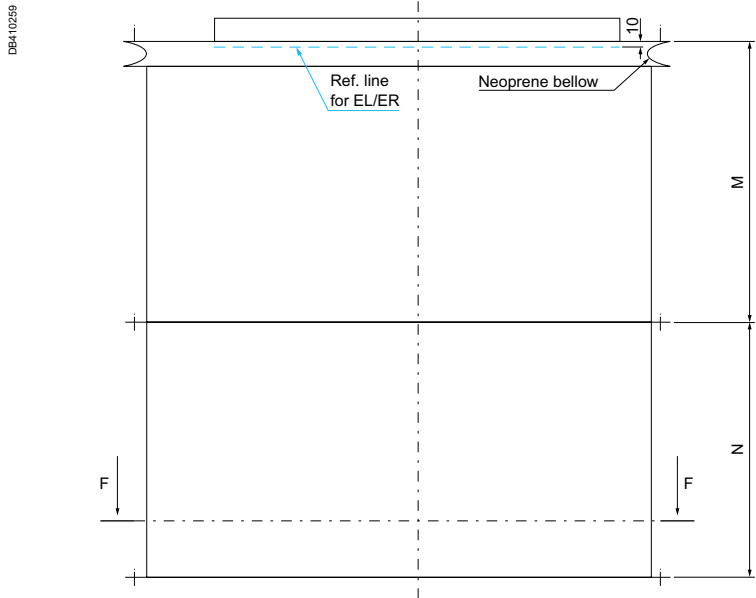
Dimension X is determined by the between centres dimensions (P, Q, R, S) and the thickness (T) or width (V) of the end feed connector bars to be protected:

- $X = P + Q + T + 100$  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.

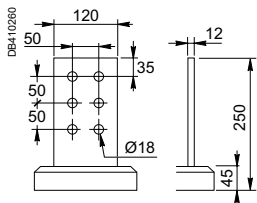
Dimension Y is determined by the width of the cast resin end feed unit. See the table below to find the correct value from the end feed unit.

#### 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 + 30 |
| ER•4 | V + 85     | EL•4 | Y          |
| ER•5 | Y + T + 40 | EL•5 | Y          |
| ER•6 | Y          |      |            |
| ER•7 | Y          |      |            |
| ER•8 | Y          |      |            |



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



### How to order?

#### Example:

Connect an end feed unit KRC3200ER41 to a transformer bushing

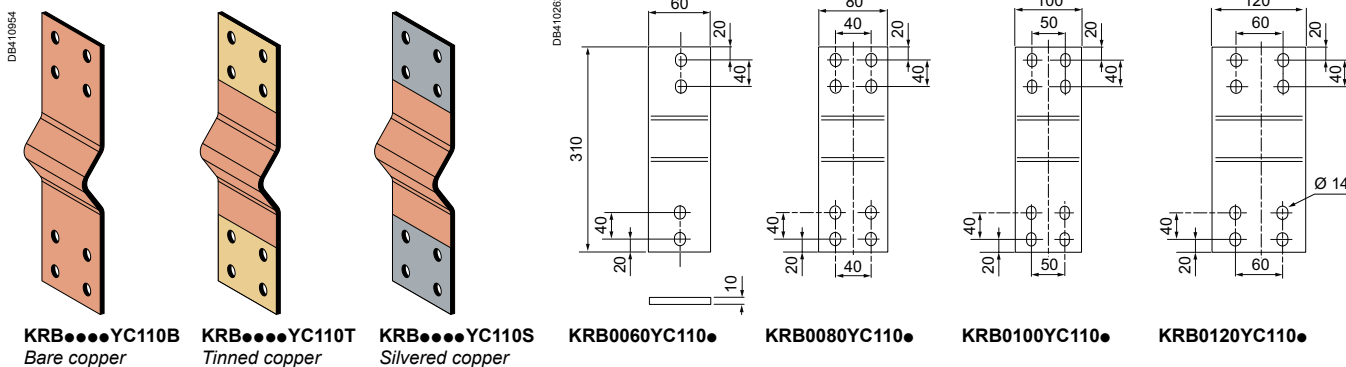
- Length of the link: 400 mm
- Drilling dimensions of the bushing: see picture
- Width of the links: 120 mm
- Surface treatment: Tinned copper.

**KRB0120YC205T**

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

### YC1 - Presswelded copper strips

| Type  | Surface treatment | Width (mm) | Thickness (mm) | Length (mm) | Cross section (mm <sup>2</sup> ) | Cat. no.             | Weight (kg) |
|-------|-------------------|------------|----------------|-------------|----------------------------------|----------------------|-------------|
| Fixed | Bare copper       | 60         | 10             | 310         | 600                              | <b>KRB0060YC110B</b> | 1.7         |
|       |                   | 80         | 10             | 310         | 800                              | <b>KRB0080YC110B</b> | 2.2         |
|       |                   | 100        | 10             | 310         | 1000                             | <b>KRB0100YC110B</b> | 2.8         |
|       |                   | 120        | 10             | 310         | 1200                             | <b>KRB0120YC110B</b> | 3.3         |
|       | Tinned copper     | 60         | 10             | 310         | 600                              | <b>KRB0060YC110T</b> | 1.7         |
|       |                   | 80         | 10             | 310         | 800                              | <b>KRB0080YC110T</b> | 2.2         |
|       |                   | 100        | 10             | 310         | 1000                             | <b>KRB0100YC110T</b> | 2.8         |
|       |                   | 120        | 10             | 310         | 1200                             | <b>KRB0120YC110T</b> | 3.3         |
|       | Silvered copper   | 60         | 10             | 310         | 600                              | <b>KRB0060YC110S</b> | 1.7         |
|       |                   | 80         | 10             | 310         | 800                              | <b>KRB0080YC110S</b> | 2.2         |
|       |                   | 100        | 10             | 310         | 1000                             | <b>KRB0100YC110S</b> | 2.8         |
|       |                   | 120        | 10             | 310         | 1200                             | <b>KRB0120YC110S</b> | 3.3         |



**KRB0060YC110B**  
Bare copper

**KRB0060YC110T**  
Tinned copper

**KRB0060YC110S**  
Silvered copper

**KRB0060YC110**

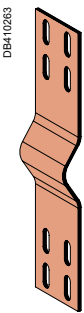
**KRB0080YC110**

**KRB0100YC110**

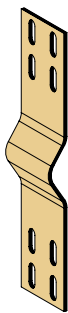
**KRB0120YC110**

### 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) |
|-----------------|-------------------|------------|----------------|-------------|----------------------------------|---------------|-------------|
| Made to measure | Bare copper       | 60         | 5              | 310 to 500  | 300                              | KRB0060YC205B | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC205B | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC205B | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC205B | 2.7         |
|                 | Tinned copper     | 60         | 5              | 310 to 500  | 300                              | KRB0060YC205T | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC205T | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC205T | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC205T | 2.7         |
|                 | Silvered copper   | 60         | 5              | 310 to 500  | 300                              | KRB0060YC205S | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC205S | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC205S | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC205S | 2.7         |



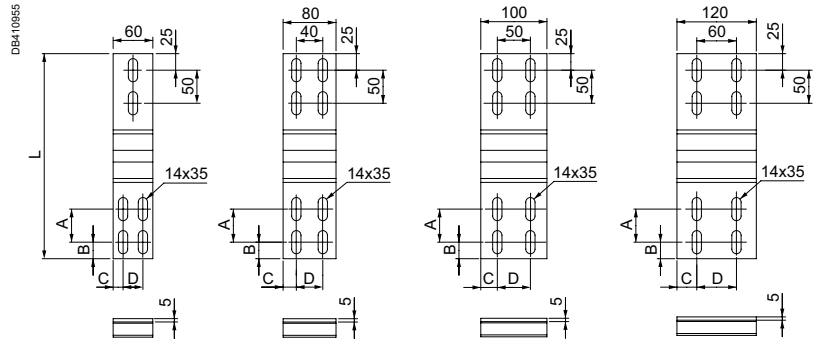
KRB0060YC205B  
Bare copper



KRB0080YC205T  
Tinned copper



KRB0100YC205S  
Silvered copper



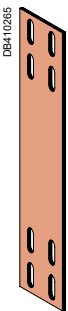
E = Nb of vertical holes  
F = Nb of horizontal holes

|   |       |   |       |
|---|-------|---|-------|
| L | _____ | D | _____ |
| A | _____ | E | _____ |
| B | _____ | F | _____ |
| C | _____ |   |       |

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

### YC3 - Made to measure copper flexible links

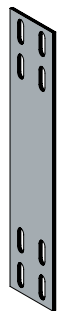
| Type            | Surface treatment | Width (mm) | Thickness (mm) | Length (mm) | Cross section (mm <sup>2</sup> ) | Cat. no.      | Weight (kg) |
|-----------------|-------------------|------------|----------------|-------------|----------------------------------|---------------|-------------|
| Made to measure | Bare copper       | 60         | 5              | 310 to 500  | 300                              | KRB0060YC305B | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC305B | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC305B | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC305B | 2.7         |
|                 | Tinned copper     | 60         | 5              | 310 to 500  | 300                              | KRB0060YC305T | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC305T | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC305T | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC305T | 2.7         |
|                 | Silvered copper   | 60         | 5              | 310 to 500  | 300                              | KRB0060YC305S | 1.3         |
|                 |                   | 80         | 5              | 310 to 500  | 400                              | KRB0080YC305S | 1.8         |
|                 |                   | 100        | 5              | 310 to 500  | 500                              | KRB0100YC305S | 2.2         |
|                 |                   | 120        | 5              | 310 to 500  | 600                              | KRB0120YC305S | 2.7         |



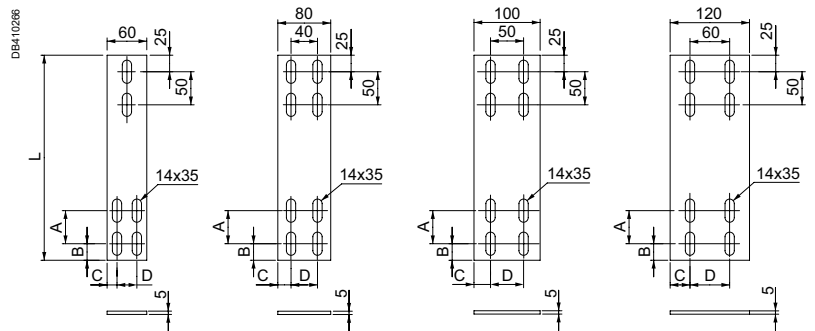
KRB0060YC305B  
Bare copper



KRB0080YC305T  
Tinned copper



KRB0100YC305S  
Silvered copper



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

|   |       |   |       |
|---|-------|---|-------|
| L | _____ | D | _____ |
| A | _____ | E | _____ |
| B | _____ | F | _____ |
| C | _____ |   |       |

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



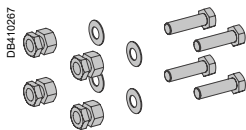
A

B

C

D

### YB1 - Bolt set



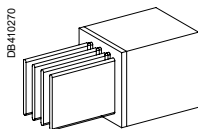
| Type   | Screw dimensions | Cat. no.     | Weight (kg) |
|--|------------------|--------------|-------------|
| Set of 8 stainless steel M12 bolt including screws, nuts and washers | M12-40           | KRB0040YB112 | 0.6         |
|  | M12-50           | KRB0050YB112 | 0.7         |
|  | M12-60   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

### SJ - Sample junction



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

### SE - Sample extremity



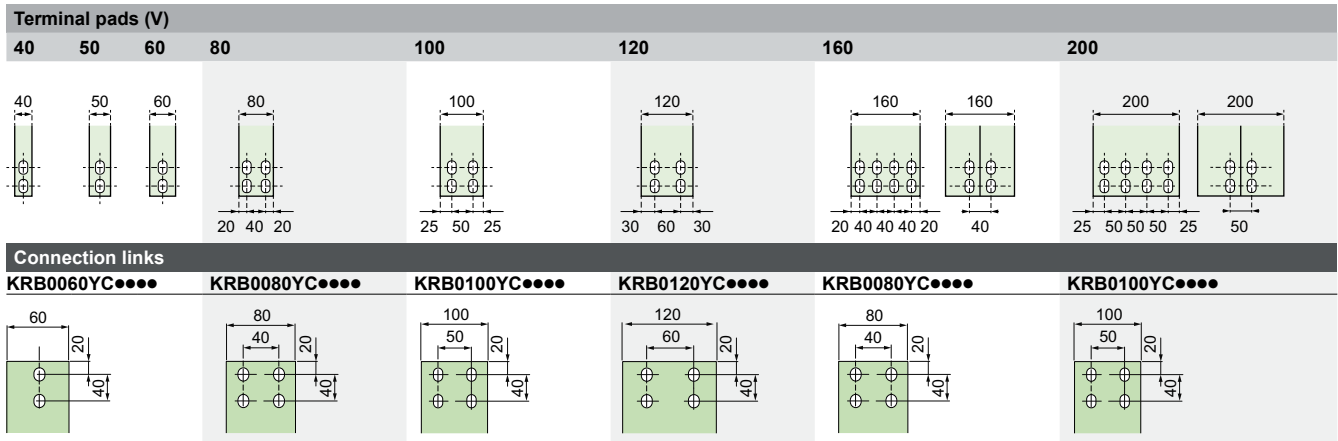
| Type                 | Rating (A) | Cat. no.    | Weight (kg) |
|----------------------|------------|-------------|-------------|
| 1 unit per reference | KRA1000    | KRA1000SE41 | 4           |
|                      | KRC1350    | KRC1350SE41 | 5           |

# Size and number of connection parts

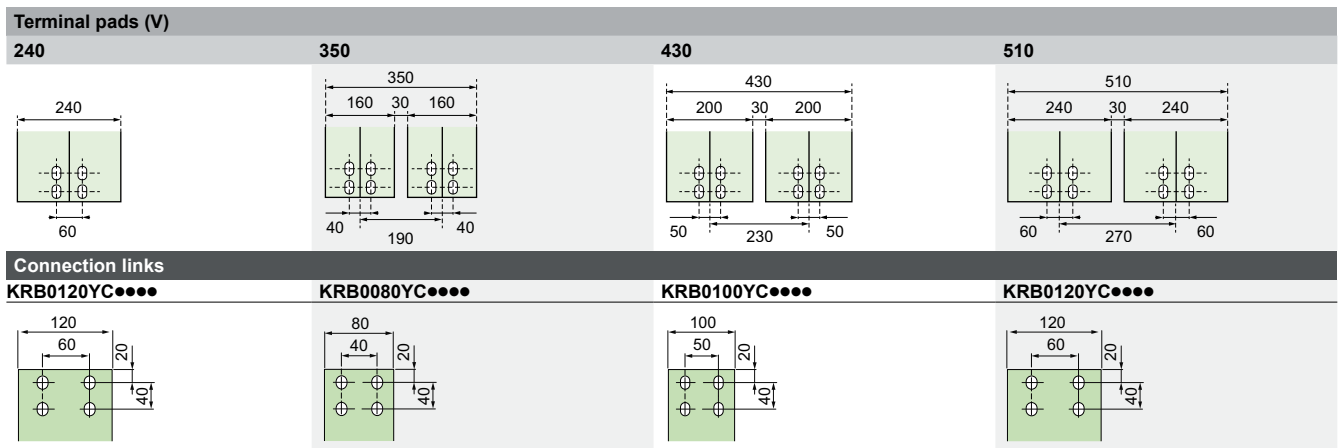
A

- 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

B



C



D

**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<br>300 mm <sup>2</sup> | 60X10<br>600 mm <sup>2</sup> | 80X5<br>400 mm <sup>2</sup> | 80X10<br>800 mm <sup>2</sup> | 100X5<br>500 mm <sup>2</sup> | 100X10<br>1000 mm <sup>2</sup> | 120X5<br>600 mm <sup>2</sup> | 120X10<br>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                            | 2                              | 3                            | 2                              |
| KRA3200 |                             |                              | 6                           | 3                            | 5                            | 3                              | 4                            | 2                              |
| KRA4000 |                             |                              | 8                           | 4                            | 6                            | 3                              | 5                            | 3                              |
| KRA5000 |                             |                              | 9                           | 5                            | 8                            | 4                              | 6                            | 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                              |

# Design guide

|  |      |
|--|------|
| Characteristics  |      |
| Canalis KRA.....   | C-72 |
| Canalis KRC.....   | C-73 |
| Select the good product.....   | C-74 |
| Fire rated Canalis KR ordering guidelines .....                              | C-75 |
| Calculating nominal current (In)<br>by applying a derating coefficient ..... | C-77 |
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| General .....  | C-85 |



# Characteristics

## Canalis KRA

### Aluminium conductors

A

|   | Symbol          | Unit | Busbar trunking rating                              |         |         |         |         |         |         |         |         |
|---|-----------------|------|---|---------|---------|---------|---------|---------|---------|---------|---------|
|   |                 |      | KRA0800   | KRA1000 | KRA1250 | KRA1600 | KRA2000 | KRA2500 | KRA3200 | KRA4000 | KRA5000 |
| <b>General characteristics</b>                          |                 |      |   |         |         |         |         |         |         |         |         |
| 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 | 0.026 | 0.053 | 0.050 | 0.046 | 0.030 | 0.029 | 0.024 | 0.025 | 0.022 |

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 I <sub>nc</sub> 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 I <sub>nc</sub> 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 |
|--|---|----|------|-------|-------|-------|-------|-------|-------|-------|-------|

| General characteristics                                 | Symbol          | Unit | Busbar trunking rating                              |         |         |         |         |         |         |         |         |  |
|---|-----------------|------|---|---------|---------|---------|---------|---------|---------|---------|---------|--|
|   |                 |      | 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 | I <sub>nc</sub> | A    | 1000  | 1350    | 1600    | 2000    | 2500    | 3200    | 4000    | 5000    | 6300    |  |
| Rated insulation Voltage                                | U <sub>i</sub>  | V    | 1000V   |         |         |         |         |         |         |         |         |  |
| Rated operation Voltage                                 | U <sub>e</sub>  | 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.

#### Short circuit current withstand

|   |                  |                                  |      |      |      |      |      |      |       |       |       |
|---|------------------|----------------------------------|------|------|------|------|------|------|-------|-------|-------|
| Allowable rated short time withstand current (t=1s) | I <sub>cw</sub>  | kA                               | 38   | 38   | 65   | 80   | 80   | 100  | 100   | 125   | 125   |
| Allowable rated peak current                        | I <sub>pk</sub>  | kA                               | 80   | 80   | 143  | 176  | 176  | 220  | 220   | 275   | 275   |
| Maximum thermal stress I <sup>2</sup> t (t=1s)      | I <sup>2</sup> t | A <sup>2</sup> .s10 <sup>6</sup> | 1444 | 1444 | 4225 | 4225 | 6400 | 6400 | 10000 | 10000 | 10000 |

#### Phase Conductors

|   |                 |      |       |       |       |       |       |       |       |       |       |
|---|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 I <sub>nc</sub> 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 I <sub>nc</sub> 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 I <sub>nc</sub> and at 35°C and at 50 Hz | Z <sub>1</sub>  | mΩ/m | 0.069 | 0.051 | 0.046 | 0.034 | 0.031 | 0.029 | 0.014 | 0.012 | 0.011 |

#### Fault loop characteristics

##### Symmetrical components method

|               |                    |                      |      |       |       |       |       |       |       |       |       |       |
|---------------|--------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 |

##### Impedance method

|   |                    |       |                       |      |       |       |       |       |       |       |       |       |       |
|---|--------------------|-------|-----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 I <sub>nc</sub> 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 I <sub>nc</sub> 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 |

#### 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   |  | 0.0104 | 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 |

#### Average weight

|  |  |      |          |          |          |          |           |            |             |             |             |
|--|--|------|----------|----------|----------|----------|-----------|------------|-------------|-------------|-------------|
| 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 |
|--|--|------|----------|----------|----------|----------|-----------|------------|-------------|-------------|-------------|

#### Fire load value

|           |  |       |      |      |      |      |    |      |    |      |      |
|-----------|--|-------|------|------|------|------|----|------|----|------|------|
| Fire Load |  | kWh/m | 11.8 | 18.7 | 22.8 | 27.5 | 32 | 36.7 | 55 | 64.1 | 73.3 |
|-----------|--|-------|------|------|------|------|----|------|----|------|------|

#### Radiated Magnetic field

|  |   |    |      |       |       |       |       |       |       |       |       |
|--|---|----|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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.

| Protection of equipment               | Protection of persons                                       |               |
|---------------------------------------|---|---------------|
| Dust protected (no harmful deposits). | Protected against direct contact with a 1 mm diameter wire. | 5<br>DD210018 |
| Dust tight.                           | Protected against direct contact with a 1 mm diameter wire. | 6<br>DD210019 |

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

| Protection of equipment  |               |
|--|---------------|
| Protected against water jets in all directions.<br>Test duration: 1 mn/m <sup>2</sup> casing | 5<br>DD210010 |
| Protected against powerful jets of water and waves.  | 6<br>DD210011 |
| Protected against the effects of temporary immersion.  | 7<br>DD210012 |
| Protected against the effects of prolonged immersion under specified conditions.             | 8<br>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.

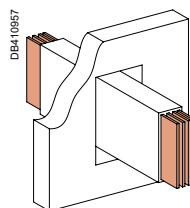
This performance is required by the busbar trunking standard IEC 61439-6. Canalis KR complies with requirement.

#### Fire resistance in building penetrations

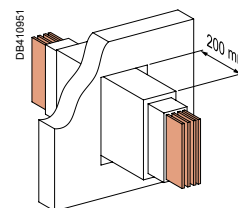
The test is suitable for fire barrier BTU designed to prevent the spread of fire through building penetration. The test shall be performed according to ISO 834-1 for fire resistance times of 60 min, 90 min, 120 min, 180 min or 240 min.

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.

## 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.*

A

B

C

D

# 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.

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  |
| KRA    | Only resin encapsulated units                        | Not tested  | 180 mn     |
|        | Resin + Promat encapsulated units (FT, FP, FC units) | 90 mn (E90) | Not tested |
| KRC    | 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*

### 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.

B

C

D



# Characteristics

## Calculating nominal current (In) 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.

k1 = ambient temperature derating coefficient.

|                                    |      |      |      |      |      |      |      |      |      |
|------------------------------------|------|------|------|------|------|------|------|------|------|
| <b>Max. ambient temperature °C</b> | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   |
| <b>24h ambient temperature °C</b>  | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   |
| <b>Correction factor</b>           | 1.20 | 1.15 | 1.10 | 1.05 | 1.00 | 0.96 | 0.89 | 0.84 | 0.78 |

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.

k2 = altitude derating coefficient

|                             |          |              |              |              |            |
|-----------------------------|----------|--------------|--------------|--------------|------------|
| <b>Level above sea (m)</b>  | 0 to 999 | 1000 to 1999 | 2000 to 2999 | 3000 to 3999 | above 4000 |
| <b>Indoor installation</b>  | 1        | 1            | 0.99         | 0.96         | 0.90       |
| <b>Outdoor installation</b> | 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 (In) by applying a derating coefficient

A

### 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.*

B

C

**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.*

D

### 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 $I_n$

| KRA - Conductors in aluminium |                 | KRC - Conductors in copper |                 |
|-------------------------------|-----------------|----------------------------|-----------------|
| Nominal current $I_n$ (A)     | Busbar trunking | Nominal current $I_n$ (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  $V / 100 \text{ m} / A$  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.

|                    | Symbol | Busbar trunking rating |         |         |         |         |         |         |         |         |
|--------------------|--------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |        | KRA0800                | KRA1000 | KRA1250 | KRA1600 | KRA2000 | KRA2500 | KRA3200 | KRA4000 | KRA5000 |
| For $\cos \phi$ 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  |

|                    | Symbol | Busbar trunking rating |         |         |         |         |         |         |         |         |
|--------------------|--------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    |        | KRC1000                | KRC1350 | KRC1600 | KRC2000 | KRC2500 | KRC3200 | KRC4000 | KRC5000 | KRC6300 |
| For $\cos \phi$ 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  |

**Example:**

For the **KRC 1600 A** busbar trunking:

- $I_b = 1565 \text{ A}$
- $I_n = 1600 \text{ A}$
- Length  $L = 78 \text{ m}$
- Cosine  $\phi = 0.8$ .

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

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

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

# Characteristics

## Packaging, handling and transport advices

A



B

C

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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.

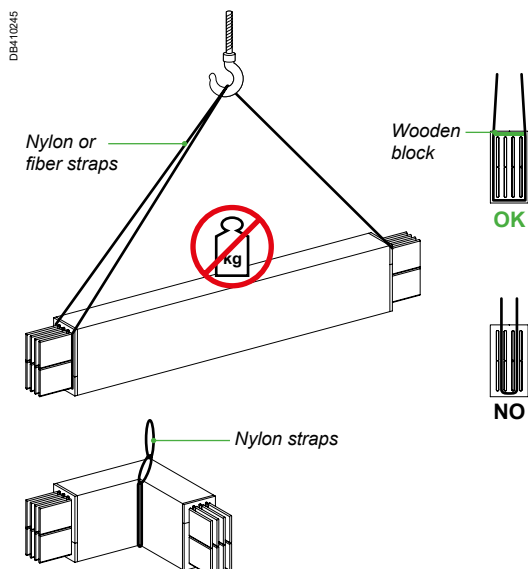
Pallets can be lifted and carried from all sides. All elements on the pallets are protected with wooden spacers and metal hoops.

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

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.

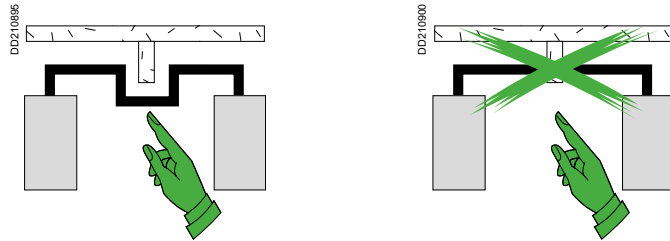
The Canalis KR line is easy to specify simply by indicating the required dimensions. However, it is strongly advised to use the shortest and simplest path possible between the transformer and the switchboard.

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

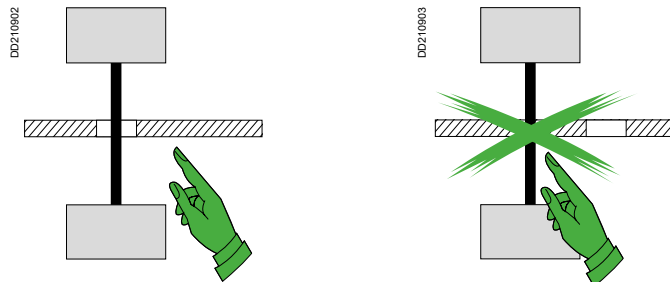
- The minimum number of components for changing direction
- Straight made-to-measure components rather than made-to-measure components for changing direction.

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

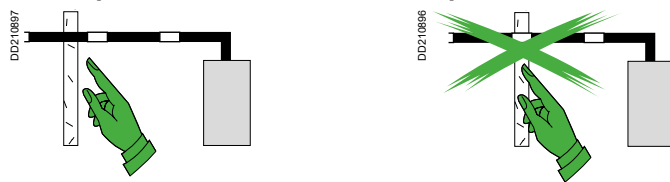
#### Obstacles that obstruct the busbar trunking such as beams, pipes, etc.



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



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



# Characteristics

## How to support Canalis KR?

A

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.

B

### 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.

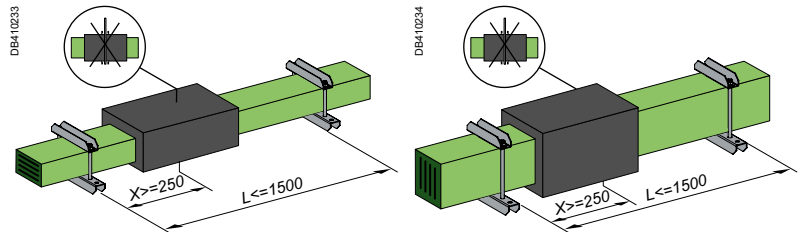
A bracket must never coincide with a joint block. Always maintain a distance of at least 250 mm between the centre of joint block and the bracket.

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.

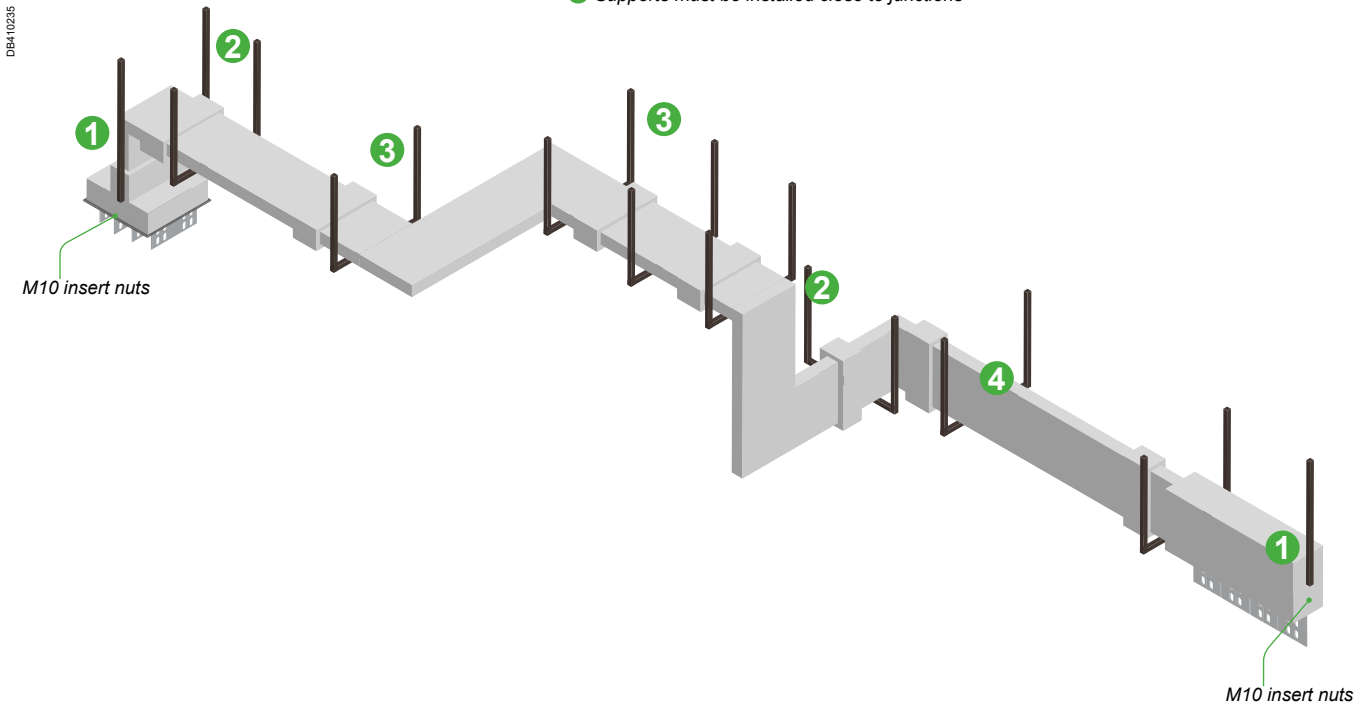
C

> 1.500 mm length



D

- 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



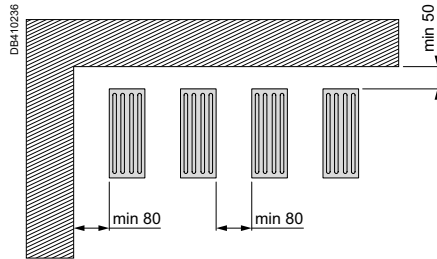
# Design guide

## Characteristics

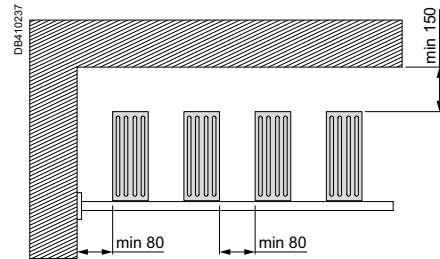
### How to support Canalis KR?

#### 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.

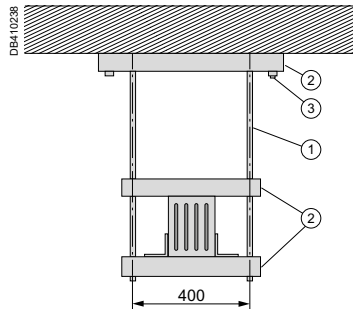


Vertical installation against wall (RISER)



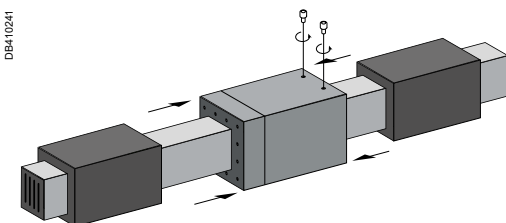
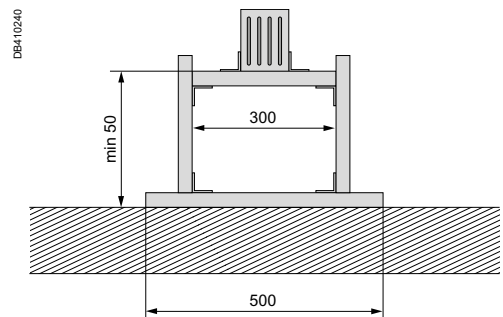
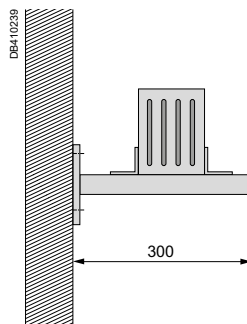
Horizontal installation

#### 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

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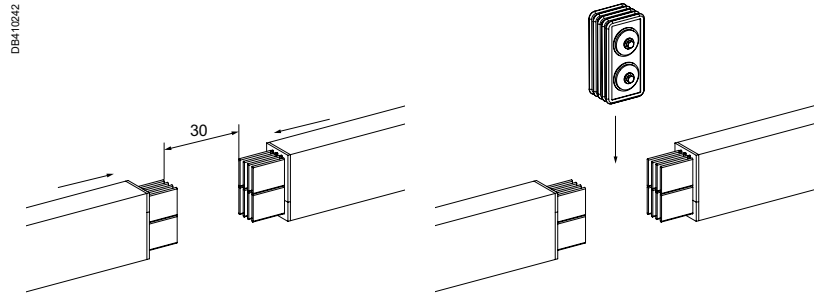
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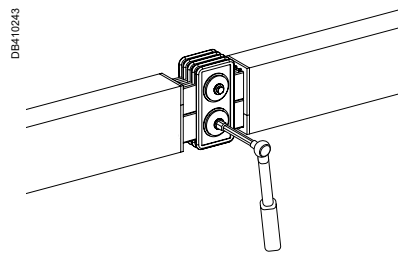
### Distance between units

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.

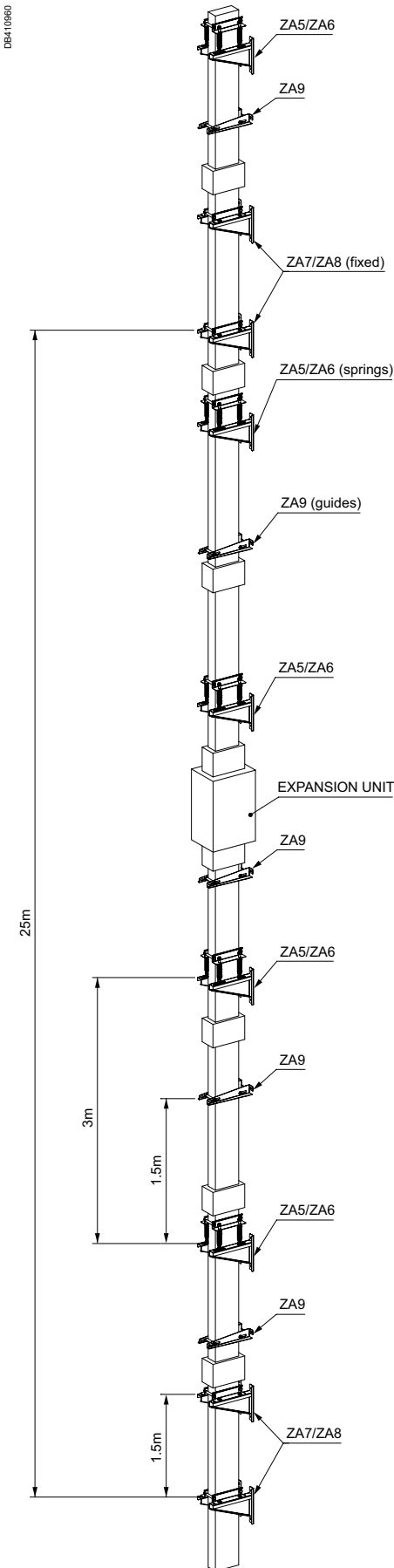
The hardening time is usually around 5 to 14 hours.

| 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       |



# Rising mains support selection

## General



### 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<br>ZA7 / ZA8<br>(every 1.5 m) | Springs<br>ZA5 / ZA6<br>(every 3 mm) | Guides<br>ZA9 (between<br>ZA5 / ZA6) | Expansion unit<br>(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  | ✓                                    | ✓                                    | ✓                              |

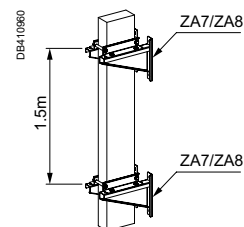
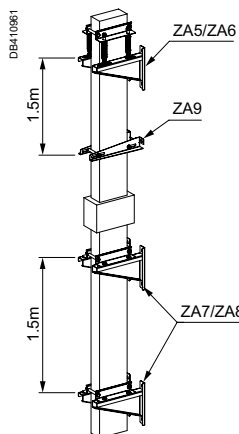
In any riser, two fixed support type ZA7/ZA8 is required at the bottom of a riser. **General guideline:** At every 1.5 meters distance, a support type is required. They can be fixed supports, just guides or guides with springs.

*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 3meters, 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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