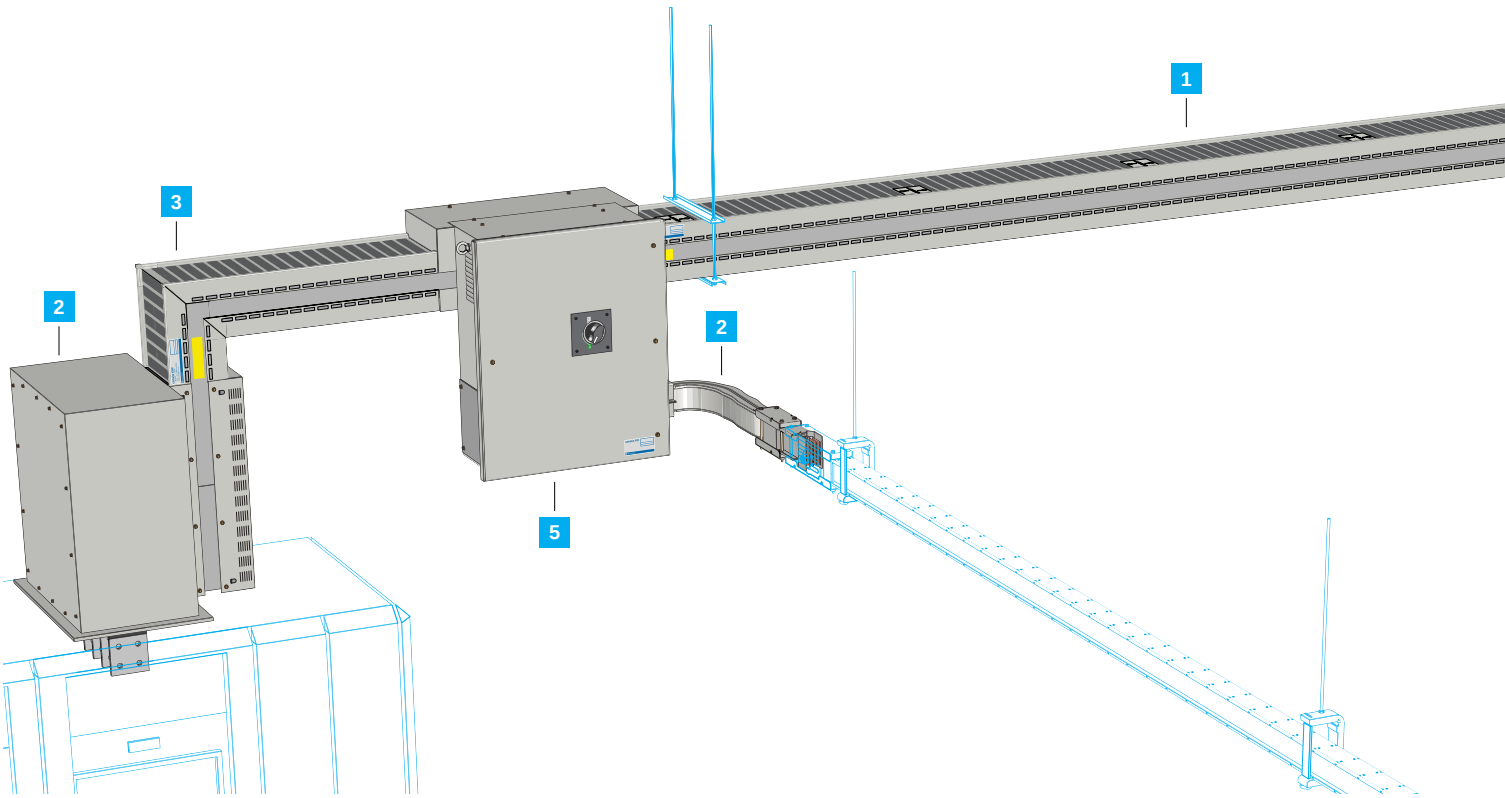
High power busbar trunking

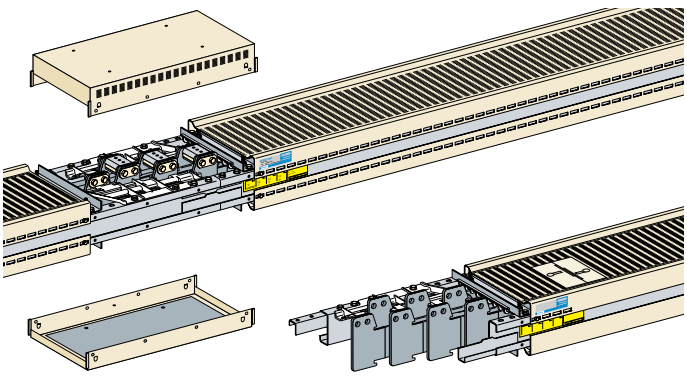
Canalis KHF (1000 to 4500 A)
For distribution
in industrial, commercial or service premises

Presentation



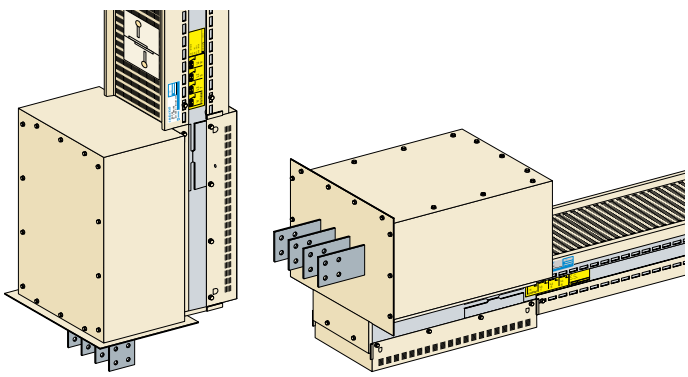
1 Run components

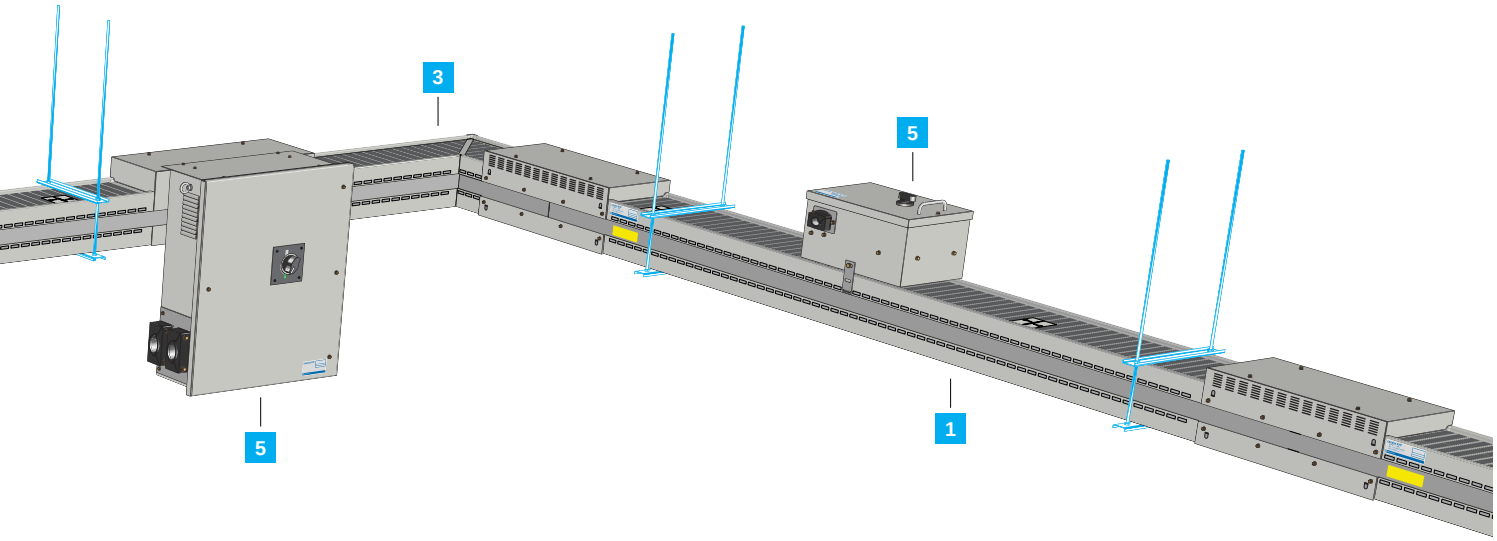
1000 to 4500 A.
3 or 4 live conductors in aluminium.
3 and 5 metre fixed lengths and made to measure from 1 to 3 metres.



2 Connection components, end covers and feed units

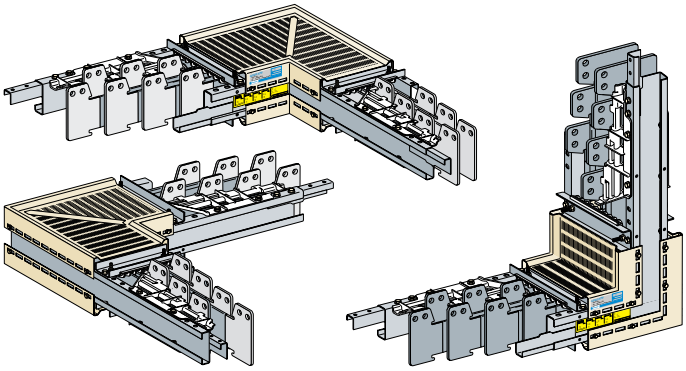
For connecting KH busbar trunking to the transformer terminals or to the switchboard connections.
For closing distribution lines.





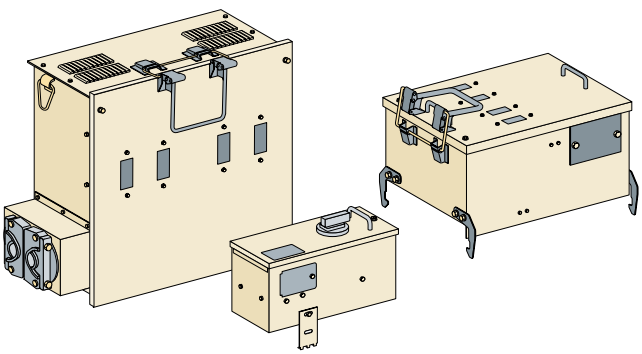
3 Components for changing direction

For adapting the busbar trunking to the contours of the installation. (changes in direction, level, bypassing obstacles, etc).



5 Tap-off units

Fixed or removable tap-off units fitted with fuse isolators, fuse switches or circuit-breaker.



High power busbar trunking

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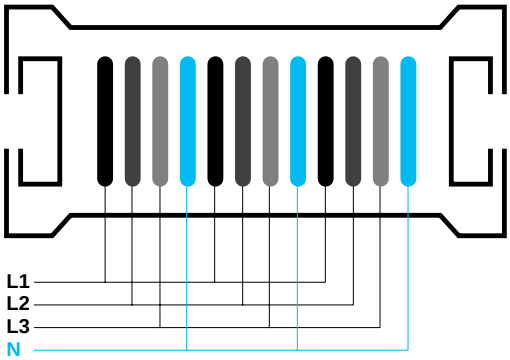
Canalis KHF (1000 to 4500 A)

Description

General

KHF busbar trunking is designed to carry and distribute high power in industrial, commercial or service buildings.
The conductors are made of aluminium for currents of 1000 to 4500 A, divided into 9 ratings.



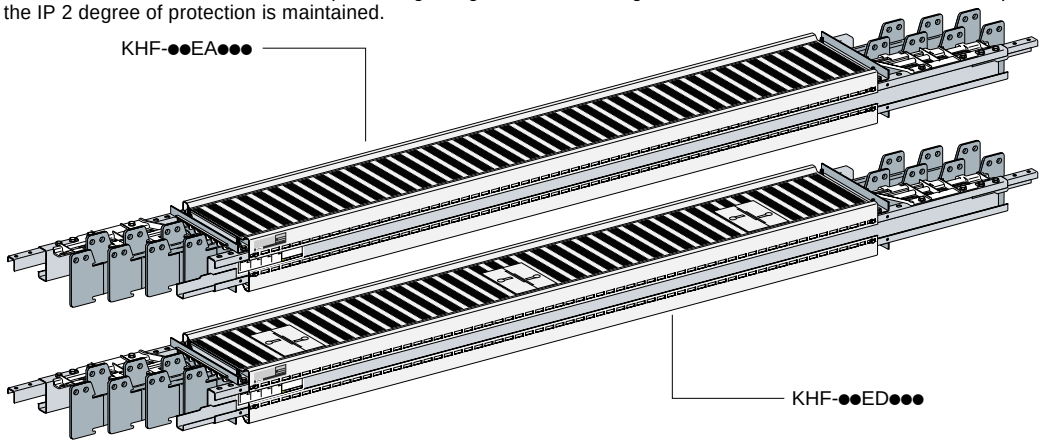
Live conductors are said to be “sandwiched”, as shown on the drawing opposite. This configuration reduces electrodynamic forces in the event of short-circuits. Furthermore, the conductors are held in place by isolators, mechanically independent from the sheet steel structure, which counteracts these forces. The conductors are insulated by a polyester film. The neutral conductor is identified by a blue ring inside the busbar trunking.
The top and bottom of the casing comprises covers in grey silex RAL 7032 paint finished sheet steel with perforations. The sides are made of galvanised sheet steel C-shaped rails. These are used as protective conductors and every joint is made in such a way as to ensure efficient conductivity.

The busbar trunking is ventilated, which enables optimum usage of the conductive part. It is designed to be flat-mounted, though it is possible to mount them edgewise. In this case, natural convection is no longer possible, and the busbar trunking must be derated (see characteristics on page 100042/3).

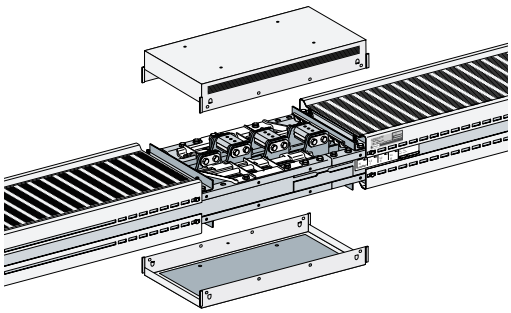
Straight lengths

Straight distribution lengths

There are two types of straight length :
● **Type EA**, for low density distribution without tap-off outlets between joints. Tap-offs can be made at each joint. These straight lengths are manufactured in 5 or 3 metre sizes. They can be made to measure to any length between 1 and 3 metres.
● **Type ED** for high density distribution. Tap-offs can be made at joints as well as along the length using tap-off outlets (3 for a 3 metre length, 5 for a 5 metre length).
These outlets are fitted with a shutter preventing foreign material entering when no unit is fitted. With the shutters open, the IP 2 degree of protection is maintained.



Connecting straight lengths



Each length is supplied with all the necessary parts for electrical and mechanical junctions, including the jointing cover. The electrical connection of lengths is performed by bolting the lengths together. Tin plates are welded at the ends of the conductors.
The plates are bolted together. When there are several bars per phase, bars which have the same polarity are connected using “equipotential blocks”. The bolts must be tightened to a torque of 4.5 daN.m. This torque is automatically reached when the breakable head of the bolt snaps off.
This type of jointing is used for mounting fixed tap-off units (type SB).
It is therefore possible to add tap-off units to an existing installation without modifying the lengths.

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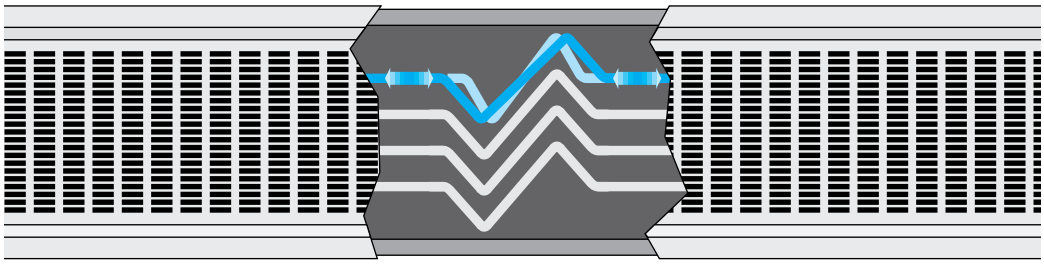
Canalis KHF (1000 to 4500 A)

Description

Expansion

● **Expansion of straight lengths**
All lengths of 3 m or more are fitted with an expansion joint which absorbs the differential expansion between the bars and the casing.
The expansion joints are located in the centre of the 3 and 5 metre trunking lengths, and are composed of flexible laminates in aluminium. The set of bars are clamped at each end of the trunking length to orientate the expansion towards the central expansion joint.



● **Building expansion**
A straight length, available in 3 m length only, fitted with a double expansion joint which allows for the differential expansion between the bars and the casing and between the casing and the building.
It is mounted across a building expansion joint.
It is fixed on either side of the building expansion joint in order to firmly attach it to the building.
This enables any force to be diverted to the expansion joint of the trunking length.

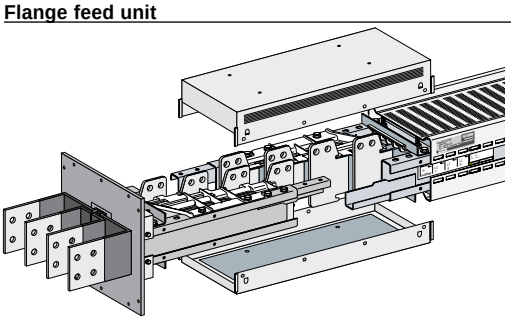
Fire-breaker

All KHF busbar trunking lengths (except ED lengths) can have a 2-hour rating fire barrier (CSTB report N° 759389C or to ghent unversity laboratory test N° 7296). When used in a vertical position, the fire barrier must be positioned in the centre of the floor slab in order to prevent fire spreading to other levels.

Connection components and feed units

There are two types of unit for connecting trunking to various types of equipment (distribution panels, circuit-breaker, etc) : the cable end cover and the end and cable feed units.

Flange feed unit

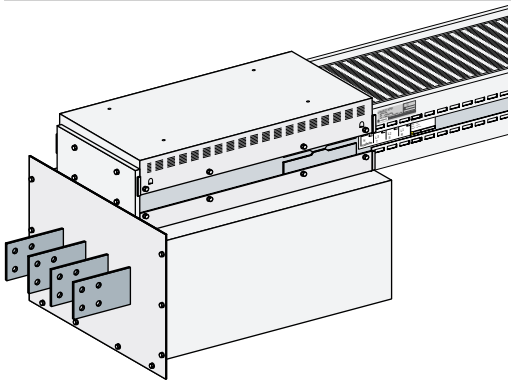


The cable end cover is reserved for sizes **KHF-14, 16** and **18**. It provides a simple solution for any connection at the end of a trunking run.

The bars are made of copper.

Whether the trunking is 3L or 3L + N + PE, the cable end cover is always 3L + N + PE.

End feed units



These units connect trunking from the end, from below or from above.

A wide variety of types of connection is offered by varying the orientation and fixing centres of the bars as well as the position of the units on the trunking.
The bars are made of copper.

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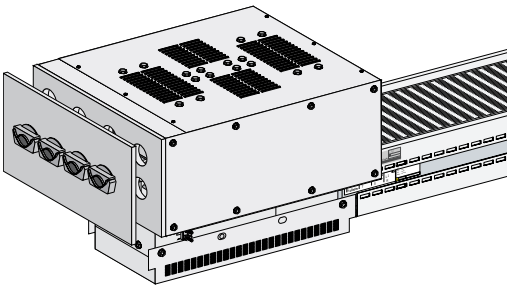
Description

Connection components and feed units (continued)

Cable feed units



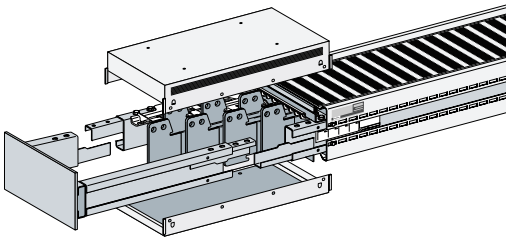
These units are available for up to **KHF-38** only.

They connect the trunking via copper or aluminium cables, fitted with lugs.

They can be mounted either above or below the trunking, and at either end of the length. For this mounting, the connection bars have to be adapted to the trunking on site.

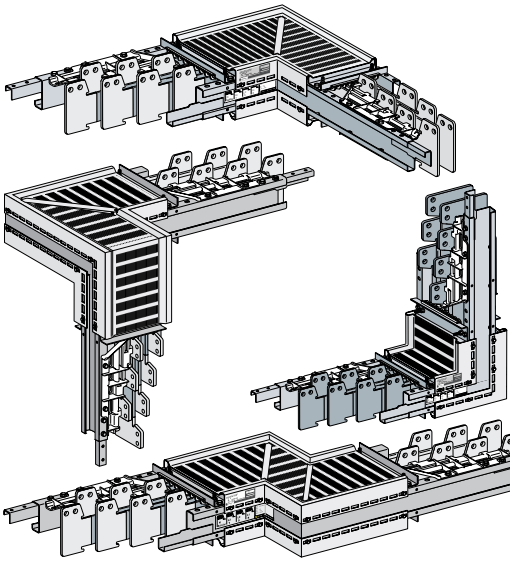
The bars are made of copper.

End cover



This protects and insulates the conductors and is assembled on the last trunking length. It can be fitted with a tap-off unit which is fixed to the joint.

Components for changing direction



These lengths adapt the trunking direction to the contours of the building (change in direction and level).

There are three types :

- Flat or edgewise elbows, upwards or downwards, to the left or right (fixed dimensions or made to measure)
- Flat or edgewise zed units for changing the trunking run direction (made to measure)
- Edgewise or flat tees (made to measure)

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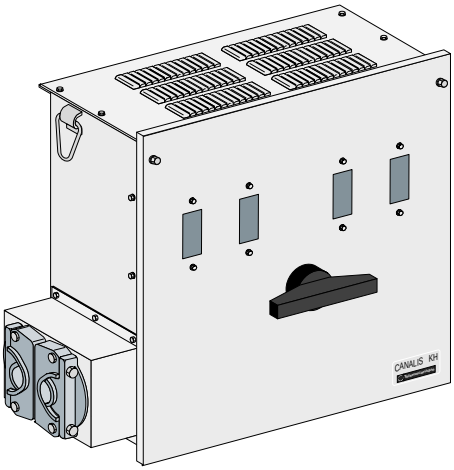
Canalis KHF (1000 to 4500 A)

Description

Tap-off units

Bolt-on tap-off units

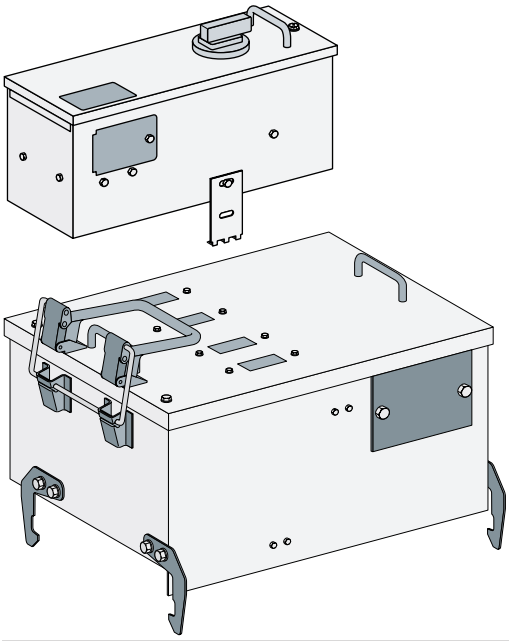


They can be mounted on the left or the right of a trunking joint. It is possible to mount two tap-off units on the same joint. These bolt-on tap-off units are available in ratings up to 1000 A.

They can be fitted with either UTE or VDE and have :

- either a fused off-load isolator which operates as the cover is opened
- or an on-load switch and fuse carriers

Removable tap-off units



These units plug in to the tap-off outlets on straight trunking lengths.

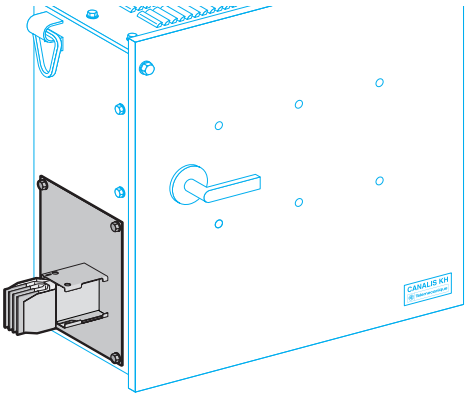
Each tap-off outlet has six apertures, five to receive the conductors (3 phase + neutral + earth). The sixth has a location device to ensure correct polarity and positioning of the unit.

These plug-in tap-off units are available in ratings up to 630 A.

They can be fitted with :

- UTE/VDE fused off-load isolators ensuring isolation when the cover is opened
- an off-load switch and UTE/VDE fuse carrier
- fixing for a Merlin Gerin circuit-breaker, type NS, with rotary or electric control

KH-KV connector



It supplies a medium power (200 to 800 A) feed run directly from a tap-off unit installed on a high power distribution run. Its flexible design accommodates any changes in alignment, level and axis.

It is fitted at one end with an SB or SD tap-off unit outlet plate from the KH range for connection to the protective device and, at the other end, with a KV end length.

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Canalis KHF (1000 to 4500 A)

Selection guide

Determining the rating according to the temperature rise

The nominal current of a busbar trunking corresponds to the maximum intensity of the constant current which the trunking can continuously support, when the average ambient temperature is 35 °C, and in accordance with normal temperature rises. Determining the rating according to the temperature rise consists of selecting the busbar trunking rating immediately above the operating current of the installation.
However, as a rule, the intensity of the current which crosses a busbar trunking is constantly fluctuating. The operating current is therefore defined as that of the constant current which produces the same thermal effects as the actual current.
It is sometimes difficult to determine the operating current, especially when no reading has been made on the existing installation or on an equivalent installation. However, the operating current is estimated with sufficient precision by calculating the product of the sum of the nominal currents of receivers connected to the busbar trunking by a coefficient known as the “average demand coefficient”.
The average demand coefficient is empirically determined by comparison with existing installations.
It is dependent upon :
– the average quantity of machines operating,
– the load variation of each receiver (a machine rarely absorbs its maximum power, as peak periods alternate with those of no-load operation),
– whether several machines are operating at the same time, whether peaks are superimposed and the duration of these peaks.
As an example, here are a few coefficients for a general mechanical engineering workshop :

Number of receivers	2 or 3	4 or 5	6 to 9	10 to 40	40 and above
Average demand coefficient	0.9	0.8	0.7	0.6	0.5

Depending on the ambient temperature and installation conditions of the busbar trunking, they must be up-rated or derated : see the “Characteristics” page opposite.

Checking the rating according to the permissible voltage drop

The permissible voltage drop is that which is compatible with the correct operation of receivers (refer to the manufacturers' manuals). Read the voltage drop in V/100 m/A in the tables on page 10042/3 for the busbar trunking selected according to the temperature rise. Determine the voltage drop for the most disadvantaged receivers (those which are the furthest from the source) and for the highest current. If the voltage drop is not permissible, select the next highest rating. Repeat the checking procedure for the new rating.

Checking the rating according to withstand to short-circuit currents

Calculate the short-circuit current at the points which are considered to be unfavourable. Check, by referring to the tables on the “Characteristics” page opposite, that the selected rating of the busbar trunking enables it to withstand this short-circuit current. If not, there are two possible solutions :
- select busbar trunking of a higher rating and repeat the checking procedure,
- provide a protection system which limits current peaks.

Example of selecting the rating of busbar trunking

The table below enables the rating of the KHF busbar trunking and the supply circuit-breaker to be determined according to the power of the transformer (Merlin Gerin).

Transformer				Supply circuit-breaker			Canalis busbar trunking		
Power	Nominal current	Short-circuit voltage	Short-circuit current	Type	Nominal current	Breaking capacity	Type	Nominal current	Short-circuit current
kVA	**A**	**%**	**kA**		**A**	**kA rms**		**A**	**kA rms**
630	887	4	22	C1001	1000	50	KHF-14	1000	25
				M10	1000	40	KHF-14	1000	25
800	1127	6	19	C1251	1250	50	KHF-16	1200	37
				M12	1250	40	KHF-16	1200	37
1000	1408	6	23	CM1600	1600	70	KHF-18	1450	39
				M16	1600	40	KHF-18	1450	39
1250	1760	6	29	CM2000	2000	70	KHF-26	2200	75
				M20	2000	55	KHF-26	2200	75
1600	2253	6	38	CM2500	1000	70	KHF-28	2500	96
				M25	2500	55	KHF-28	2500	96
2000	2816	6	47	CM3200	3200	70	KHF-36	3000	111
				M32	3200	75	KHF-36	3000	111
2500	3521	6	59	M40	4000	75	KHF-46	4000	147
3150	4436	6	74	M50	5000	100	KHF-48	4500	147

The following calculation assumptions have been made :
- the short-circuit power of the upstream supply is 500 MVA,
- the voltage ratio of the transformers is 20 kV/400 V.

High power busbar trunking

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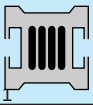
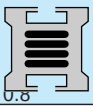
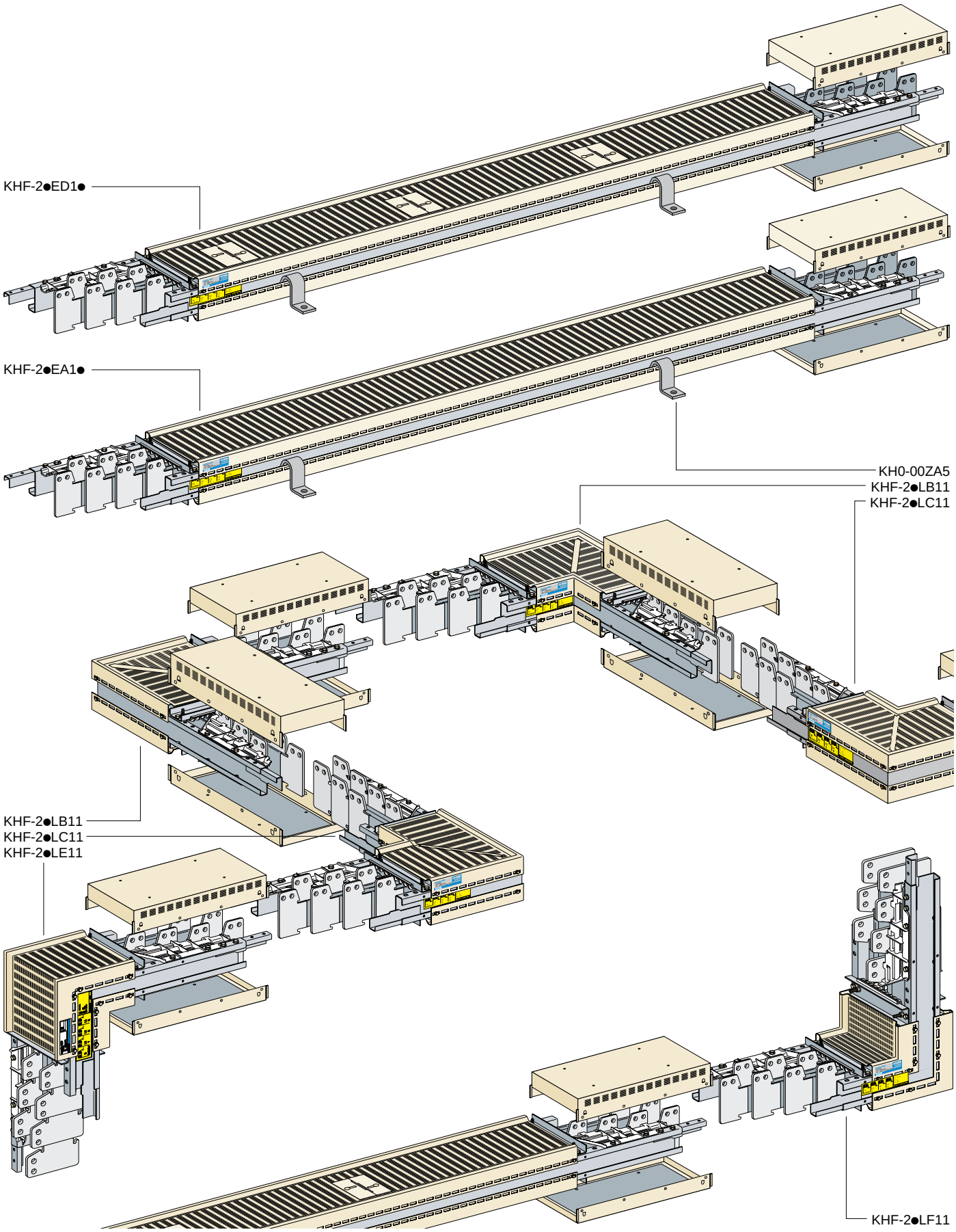
Canalis KHF (1000 to 4500 A)

Characteristics

Type of trunking		KHF-14	KHF-16	KHF-18	KHF-26	KHF-28	KHF-36	KHF-38	KHF-46	KHF-48
General characteristics										
Conforming to standards		IEC 439.2 and EN 60439-2								
Number of live conductors		3 or 4								
Type of live conductors		Aluminium								
Rated frequency F	**Hz**	∿ 50/60 – For 60 to 400, a.c. or d.c. : please consult your Regional Sales Office								
Nominal insulation voltage Ui	**V**	750								
Nominal operating voltage Ue	**V**	750								
Degree of protection (IEC 529)		IP 31								
Permissible currents										
Nominal rated current Inc (at average ambient temperature 35 °C)	**A**	1000	1200	1450	2200	2500	3000	3400	4000	4500
Nominal peak current Ipk	**kA**	58	79	79	202	202	258	258	310	310
Maximum thermal cimit I^2t	**$A^2s.10^6$**	667	1642	2920	6570	11680	14780	22470	22470	39950
Multiplying factors for nominal current Ith depending on the operating conditions — Depending on trunking position	**K2**	Horizontal flat mounting  1			Horizontal edgewise mounting  0.8			Vertical mounting with concentrated load 0.75	Vertical mounting with distributed load 1	
Depending on average ambient temperature	**°C**	15	20	25	30	35	40	45	50	55
	K1	1,10	1,08	1,05	1,03	1	0,97	0,915	0,92	0,89
Live conductors (per conductor)										
R20 - $Rb0_{ph}$ (1) Average resistance, cold state (ambient temperature 20°C)	**mΩ/m**	0,085	0,0585	0,0439	0,029	0,0238	0,02	0,0148	0,0153	0,0114
R1 - $Rb1_{ph}$ (1) Average resistance at Inc (ambient temperature 35°C)	**mΩ/m**	0,1118	0,0782	0,0596	0,0383	0,0315	0,0256	0,0188	0,0194	0,0151
X1 - X_{ph} (1) Average reactance at Inc and at rated frequency 50 Hz	**mΩ/m**	0,045	0,051	0,058	0,015	0,017	0,0074	0,008	0,011	0,0114
Voltage drop		Composite voltage drop, hot state, expressed in volts per 100 m per amp, three-phase 50 Hz current, with load distributed along the run. For a load concentrated at one end of a run (feeder), the voltage drops are twice the values shown in the table.								
For a power factor of 1	**V/100 m/A**	0,00968	0,00677	0,00516	0,00332	0,00273	0,00222	0,00163	0,00168	0,00131
0,9	**V/100 m/A**	0,01041	0,00802	0,00683	0,00355	0,0031	0,00227	0,00177	0,00193	0,00161
0,8	**V/100 m/A**	0,01008	0,00806	0,00714	0,00344	0,00307	0,00216	0,00172	0,00192	0,00164
0,7	**V/100 m/A**	0,00956	0,00789	0,0072	0,00325	0,00296	0,00201	0,00164	0,00186	0,00162
Protective conductor										
Cross-section	**mm^2**	105 (copper equivalent)								
Average resistance, cold state (ambient temperature 20 °C)	**mΩ/m**	0,186								
Weights										
Average weight per metre of trunking	**kg/m**	17	19	22	31	33	45	48	56	60

(1) In accordance with CENELEC R0 64.013 publication.


KHF-2●ED1●
KHF-2●EA1●
KH0-00ZA5
KHF-2●LB11
KHF-2●LC11
KHF-2●LB11
KHF-2●LC11
KHF-2●LE11
KHF-2●LF11

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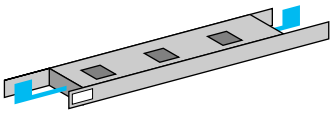
Straight lengths and elbows (1000, 1200 and 1450 A)

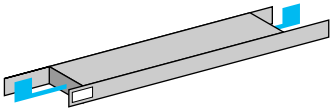
References



ED

High density distribution lengths

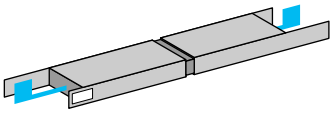
Type of length		Length Min...Max	Number of tap-off outlets	3L + N + PE Reference (1)	3L + PE Reference (1)
		mm			
ED	Fixed	5000	5	**KHF-1●ED15**	**KHF-1●ED05**
		3000	3	**KHF-1●ED13**	**KHF-1●ED03**



EA

Low density distribution lengths

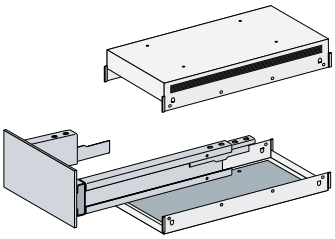
EA	Fixed	5000	–	**KHF-1●EA15**	**KHF-1●EA05**
		3000	–	**KHF-1●EA13**	**KHF-1●EA03**
	Made to measure	2501...2999	–	**KHF-1●EA1D**	**KHF-1●EA0D**
		2001...2500	–	**KHF-1●EA1C**	**KHF-1●EA0C**
		1501...2000	–	**KHF-1●EA1B**	**KHF-1●EA0B**
		1000...1500	–	**KHF-1●EA1A**	**KHF-1●EA0A**



KHF-1●DB●3

Building expansion units (2)

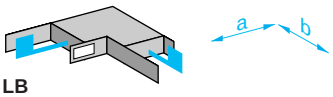
Unit length	Absorbed expansion Value	Distribution	3L + N + PE Reference (1)	3L + PE Reference (1)
mm	**mm**	**mm**		
3000	26	+ 18 - 8	**KHF-1●DB13**	**KHF-1●DB03**



KH0-16FA●

End cover

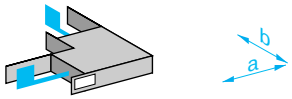
Type	Use	3L + N + PE Reference (1)	3L + PE Reference (1)
FA	For all lengths (1000 A to 1450 A)	**KH0-16FA1**	**KH0-16FA0**



LB

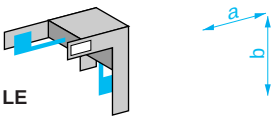
Flat elbows

Type of elbow		Length a Min...Max	Length b Min...Max	3L + N + PE Reference (1)	3L + PE Reference (1)
		mm	**mm**		
LB	Fixed	500	500	**KHF-1●LB11**	**KHF-1●LB01**
	Made to measure	410...999	410...999	**KHF-1●LB1X**	**KHF-1●LB0X**
LC	Fixed	500	500	**KHF-1●LC11**	**KHF-1●LC01**
	Made to measure	410...999	410...999	**KHF-1●LC1X**	**KHF-1●LC0X**

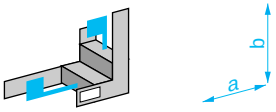


LC

Edgewise elbows



LE



LF

LE	Fixed	500	500	**KHF-1●LE11**	**KHF-1●LE01**
	Made to measure	460...999	460...999	**KHF-1●LE1X**	**KHF-1●LE0X**
LF	Fixed	500	500	**KHF-1●LF11**	**KHF-1●LF01**
	Made to measure	460...999	460...999	**KHF-1●LF1X**	**KHF-1●LF0X**
Average weight		Rating 1000 A		23 kg/m	22 kg/m
		Rating 1200 A		25 kg/m	24 kg/m
		Rating 1450 A		27 kg/m	26 kg/m

(1) In the reference : - replace the ● with **4** for **1000** A rating, with **6** for **1200** A rating, with **8** for **1450** A rating.
- for “made to measure” equipment, indicate the dimensions : see pages 10060/2 and 10060/3.

(2) Only available for 1200 and 1450 A ratings.

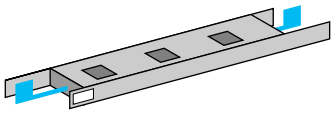
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10070/2 and 10070/3

Canalis KHF (1000 to 4500 A)
Straight lengths and elbows (2200 A and 2500 A)

References

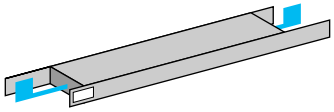
High density distribution lengths



ED

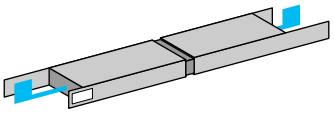
Type of length		Length Min...Max	Number of tap-off outlets	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm				
ED	Fixed	5000	5	**KHF-2●ED25**	**KHF-2●ED15**	**KHF-2●ED05**
		3000	3	**KHF-2●ED23**	**KHF-2●ED13**	**KHF-2●ED03**

Low density distribution lengths



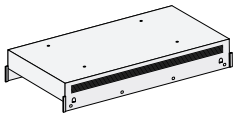
EA

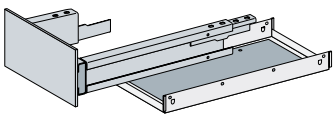
EA	Fixed	5000	–	**KHF-2●EA25**	**KHF-2●EA15**	**KHF-2●EA05**
		3000	–	**KHF-2●EA23**	**KHF-2●EA13**	**KHF-2●EA03**
	Made to measure	2501...2999	–	**KHF-2●EA2D**	**KHF-2●EA1D**	**KHF-2●EA0D**
		2001...2500	–	**KHF-2●EA2C**	**KHF-2●EA1C**	**KHF-2●EA0C**
		1501...2000	–	**KHF-2●EA2B**	**KHF-2●EA1B**	**KHF-2●EA0B**
		1000...1500	–	**KHF-2●EA2A**	**KHF-2●EA1A**	**KHF-2●EA0A**



KHF-28DB●3

Building expansion units





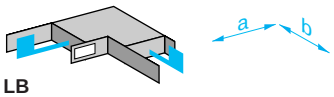
KH0-26FA●

Unit length	Absorbed expansion Value	Distribution	3L + N + PE Reference (2)	3L + N/2 + PE Reference (2)	3L + PE Reference (2)
mm	**mm**	**mm**			
3000	26	+ 18 - 8	**KHF-28DB23**	**KHF-28DB13**	**KHF-28DB03**

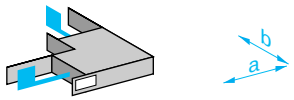
End cover

Type	Use	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
FA	For all lengths (2200 A and 2500 A)	**KH0-26FA2**	**KH0-26FA1**	**KH0-26FA0**

Flat elbows (2500 A)



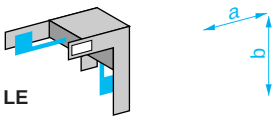
LB



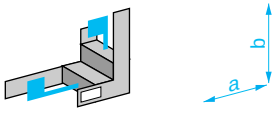
LC

Type of elbows		Length a Min...Max	Length b Min...Max	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm	**mm**			
LB	Fixed	536	536	**KHF-2●LB21**	**KHF-2●LB11**	**KHF-2●LB01**
	Made to measure	446...1035	446...1035	**KHF-2●LB2X**	**KHF-2●LB1X**	**KHF-2●LB0X**
LC	Fixed	536	536	**KHF-2●LC21**	**KHF-2●LC11**	**KHF-2●LC01**
	Made to measure	446...1035	446...1035	**KHF-2●LC2X**	**KHF-2●LC1X**	**KHF-2●LC0X**

Edgewise elbows (2500 A)



LE



LF

LE	Fixed	500	500	**KHF-2●LE21**	**KHF-2●LE11**	**KHF-2●LE01**
	Made to measure	460...999	460...999	**KHF-2●LE2X**	**KHF-2●LE1X**	**KHF-2●LE0X**
LF	Fixed	500	500	**KHF-2●LF21**	**KHF-2●LF11**	**KHF-2●LF01**
	Made to measure	460...999	460...999	**KHF-2●LF2X**	**KHF-2●LF1X**	**KHF-2●LF0X**
Average weight	Rating 2200 A			36 kg/m	34 kg/m	33 kg/m
	Rating 2500 A			39 kg/m	38 kg/m	36 kg/m

(1) In the reference : - replace ● with **6** for **2200** A rating,
with **8** for **2500** A rating,
- for “made to measure” equipment, indicate the dimensions : see pages 10060/2 and 10060/3.

(2) Common to both rating

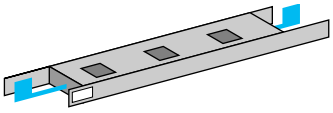
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10070/2 and 10070/3

Canalis KHF (1000 to 4500 A)
Straight lengths and elbows (3000 A and 3400 A)

References

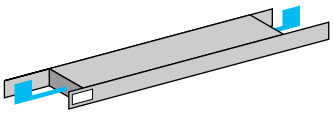
High density distribution lengths



ED

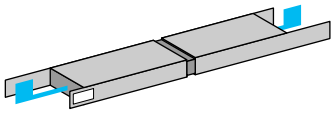
Type of length		Length Min...Max	Number of tap-off outlets	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm				
ED	Fixed	5000	5	**KHF-3●ED35**	**KHF-3●ED25**	**KHF-3●ED05**
		3000	3	**KHF-3●ED33**	**KHF-3●ED23**	**KHF-3●ED03**

Low density distribution lengths



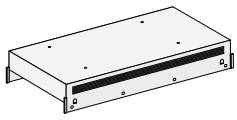
EA

EA	Fixed	5000	–	**KHF-3●EA35**	**KHF-3●EA25**	**KHF-3●EA05**
		3000	–	**KHF-3●EA33**	**KHF-3●EA23**	**KHF-3●EA03**
	Made to measure	2501...2999	–	**KHF-3●EA3D**	**KHF-3●EA2D**	**KHF-3●EA0D**
		2001...2500	–	**KHF-3●EA3C**	**KHF-3●EA2C**	**KHF-3●EA0C**
		1501...2000	–	**KHF-3●EA3B**	**KHF-3●EA2B**	**KHF-3●EA0B**
		1000...1500	–	**KHF-3●EA3A**	**KHF-3●EA2A**	**KHF-3●EA0A**



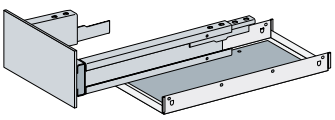
KHF-38DB●3

Building expansion units



Unit length	Absorbed expansion Value	Distribution	3L + N + PE Reference (2)	3L + N/2 + PE Reference (2)	3L + PE Reference (2)
mm	**mm**	**mm**			
3000	26	+ 18 - 8	**KHF-38DB33**	**KHF-38DB23**	**KHF-38DB03**

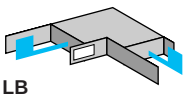
End cover



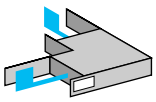
KH0-36FA●

Type	Use	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
FA	For all lengths (3000 A and 3400 A)	**KH0-36FA3**	**KH0-36FA2**	**KH0-36FA0**

Flat elbows (3400 A)



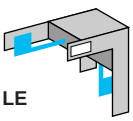
LB



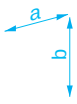
LC

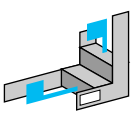
Type of elbows		Length a Min...Max	Length b Min...Max	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm	**mm**			
LB	Fixed	572	572	**KHF-3●LB31**	**KHF-3●LB21**	**KHF-3●LB01**
	Made to measure	482...1071	482...1071	**KHF-3●LB3X**	**KHF-3●LB2X**	**KHF-3●LB0X**
LC	Fixed	572	572	**KHF-3●LC31**	**KHF-3●LC21**	**KHF-3●LC01**
	Made to measure	482...1071	482...1071	**KHF-3●LC3X**	**KHF-3●LC2X**	**KHF-3●LC0X**

Edgewise elbows (3400 A)



LE





LF

LE	Fixed	500	500	**KHF-3●LE31**	**KHF-3●LE21**	**KHF-3●LE01**
	Made to measure	460...999	460...999	**KHF-3●LE3X**	**KHF-3●LE2X**	**KHF-3●LE0X**
LF	Fixed	500	500	**KHF-3●LF31**	**KHF-3●LF21**	**KHF-3●LF01**
	Made to measure	460...999	460...999	**KHF-3●LF3X**	**KHF-3●LF2X**	**KHF-3●LF0X**
Average weight	Rating 3000 A			50 kg/m	49 kg/m	46 kg/m
	Rating 3400 A			56 kg/m	54 kg/m	50 kg/m

(1) In the reference : - replace ● with **6** for **3000** A rating,
with **8** for **3400** A rating,
- for “made to measure” equipment, indicate the dimensions : see pages 10060/2 and 10060/3.

(2) Common to both rating

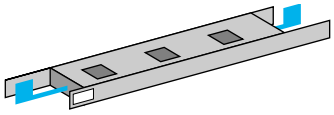
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10070/2 and 10070/3

Canalis KHF (1000 to 4500 A)
Straight lengths and elbows (4000 A)

References

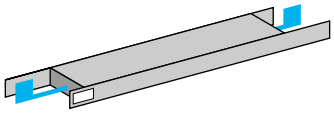
High density distribution lengths



ED

Type of length		Length Min...Max mm	Number of tap-off outlets	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
ED	Fixed	5000	5	**KHF-46ED45**	**KHF-46ED25**	**KHF-46ED05**
		3000	3	**KHF-46ED43**	**KHF-46ED23**	**KHF-46ED03**

Low density distribution lengths



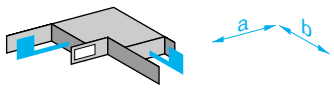
EA

EA	Fixed	5000	–	**KHF-46EA45**	**KHF-46EA25**	**KHF-46EA05**
		3000	–	**KHF-46EA43**	**KHF-46EA23**	**KHF-46EA03**
	Made to measure	2501...2999	–	**KHF-46EA4D**	**KHF-46EA2D**	**KHF-46EA0D**
		2001...2500	–	**KHF-46EA4C**	**KHF-46EA2C**	**KHF-46EA0C**
		1501...2000	–	**KHF-46EA4B**	**KHF-46EA2B**	**KHF-46EA0B**
		1000...1500	–	**KHF-46EA4A**	**KHF-46EA2A**	**KHF-46EA0A**

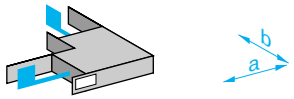
Building expansion units (See opposite page)

End cover (See opposite page)

Flat elbows (4000 A)



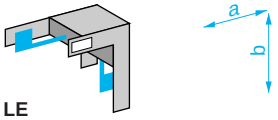
LB



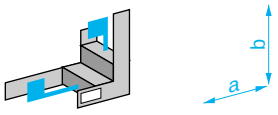
LC

Type of elbows		Length a Min...Max mm	Length b Min...Max mm	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
LB	Fixed	608	608	**KHF-46LB41**	**KHF-46LB21**	**KHF-46LB01**
	Made to measure	518...1107	518...1107	**KHF-46LB4X**	**KHF-46LB2X**	**KHF-46LB0X**
LC	Fixed	608	608	**KHF-46LC41**	**KHF-46LC21**	**KHF-46LC01**
	Made to measure	518...1107	518...1107	**KHF-46LC4X**	**KHF-46LC2X**	**KHF-46LC0X**

Edgewise elbows (4000 A)



LE



LF

LE	Fixed	500	500	**KHF-46LE41**	**KHF-46LE21**	**KHF-46LE01**
	Made to measure	460...999	460...999	**KHF-46LE4X**	**KHF-46LE2X**	**KHF-46LE0X**
LF	Fixed	500	500	**KHF-46LF41**	**KHF-46LF21**	**KHF-46LF01**
	Made to measure	460...999	460...999	**KHF-46LF4X**	**KHF-46LF2X**	**KHF-46LF0X**
Average weight		Rating 4000 A		62 kg/m	59 kg/m	55 kg/m

(1) In the reference, for “made to measure” equipment, indicate the dimensions : see pages 10060/2 and 10060/3.

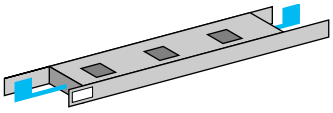
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10070/2 and 10070/3

Canalis KHF (1000 to 4500 A)
Straight lengths and elbows (4500 A)

References

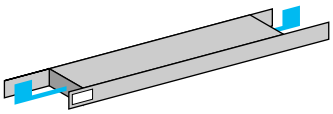
High density distribution lengths



ED

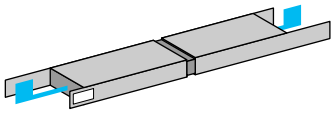
Type of length		Length Min...Max	Number of tap-off outlets	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm				
ED	Fixed	5000	5	**KHF-48ED45**	**KHF-48ED25**	**KHF-48ED05**
		3000	3	**KHF-48ED43**	**KHF-48ED23**	**KHF-48ED03**

Low density distribution lengths



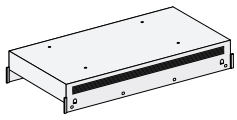
EA

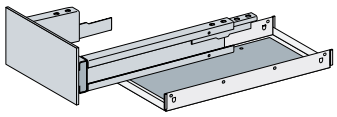
EA	Fixed	5000	–	**KHF-48EA45**	**KHF-48EA25**	**KHF-48EA05**
		3000	–	**KHF-48EA43**	**KHF-48EA23**	**KHF-48EA03**
	Made to measure	2501...2999	–	**KHF-48EA4D**	**KHF-48EA2D**	**KHF-48EA0D**
		2001...2500	–	**KHF-48EA4C**	**KHF-48EA2C**	**KHF-48EA0C**
		1501...2000	–	**KHF-48EA4B**	**KHF-48EA2B**	**KHF-48EA0B**
		1000...1500	–	**KHF-48EA4A**	**KHF-48EA2A**	**KHF-48EA0A**



KHF-48DB●3

Building expansion units





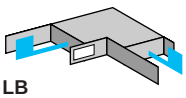
KH0-46FA●

Unit Length	Absorbed expansion Value	Distribution	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
mm	**mm**	**mm**			
3000	26	+ 18 - 8	**KHF-48DB43**	**KHF-48DB23**	**KHF-48DB03**

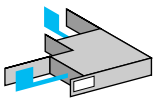
End cover

Type	Use	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
FA	For all lengths (4000 A)	**KH0-46FA4**	**KH0-46FA2**	**KH0-46FA0**

Flat elbows (4500 A)



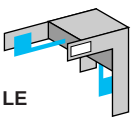
LB



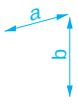
LC

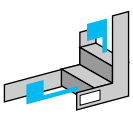
Type of elbows		Length a Min...Max	Length b Min...Max	3L + N + PE Reference (1)	3L + N/2 + PE Reference (1)	3L + PE Reference (1)
		mm	**mm**			
LB	Fixed	608	608	**KHF-48LB41**	**KHF-48LB21**	**KHF-48LB01**
	Made to measure	518...1107	518...1107	**KHF-48LB4X**	**KHF-48LB2X**	**KHF-48LB0X**
LC	Fixed	608	608	**KHF-48LC41**	**KHF-48LC21**	**KHF-48LC01**
	Made to measure	518...1107	518...1107	**KHF-48LC4X**	**KHF-48LC2X**	**KHF-48LC0X**

Edgewise elbows (4500 A)

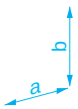


LE





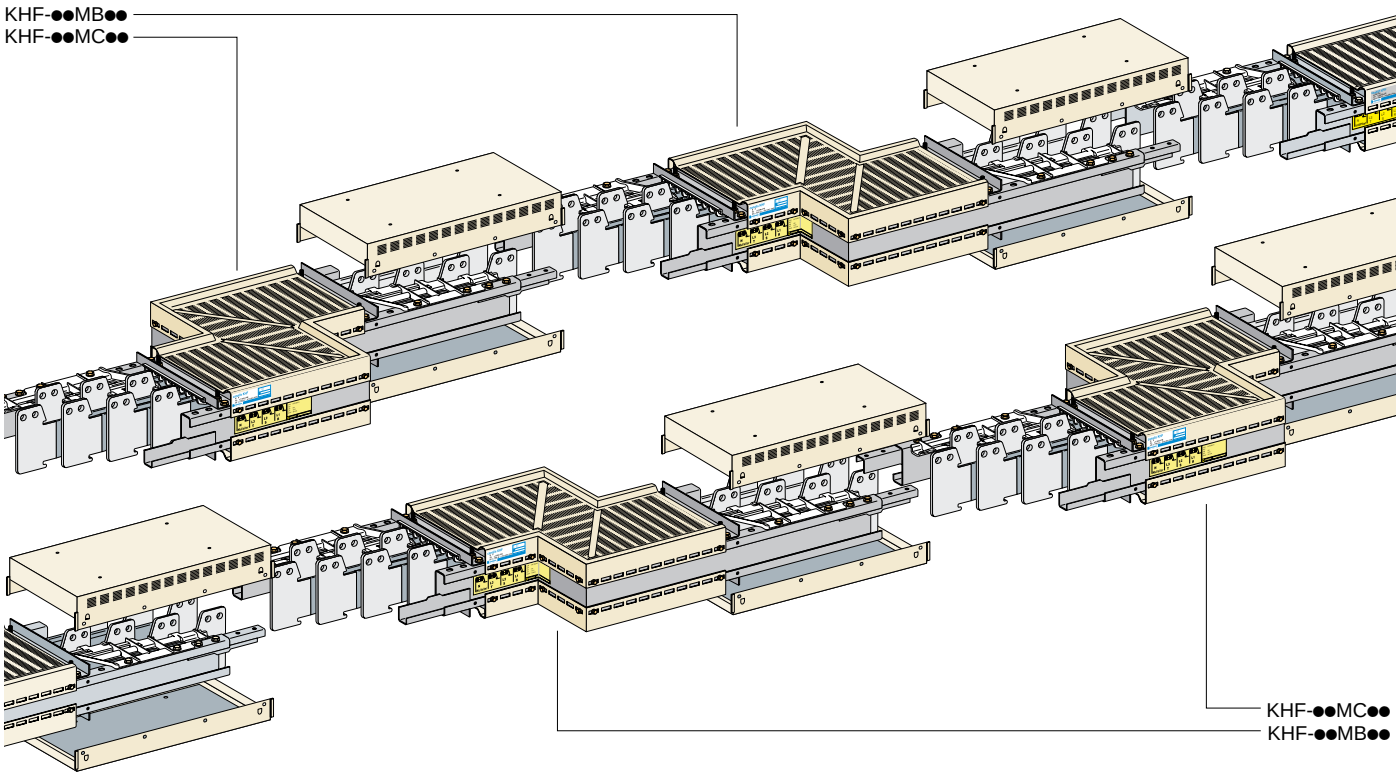
LF

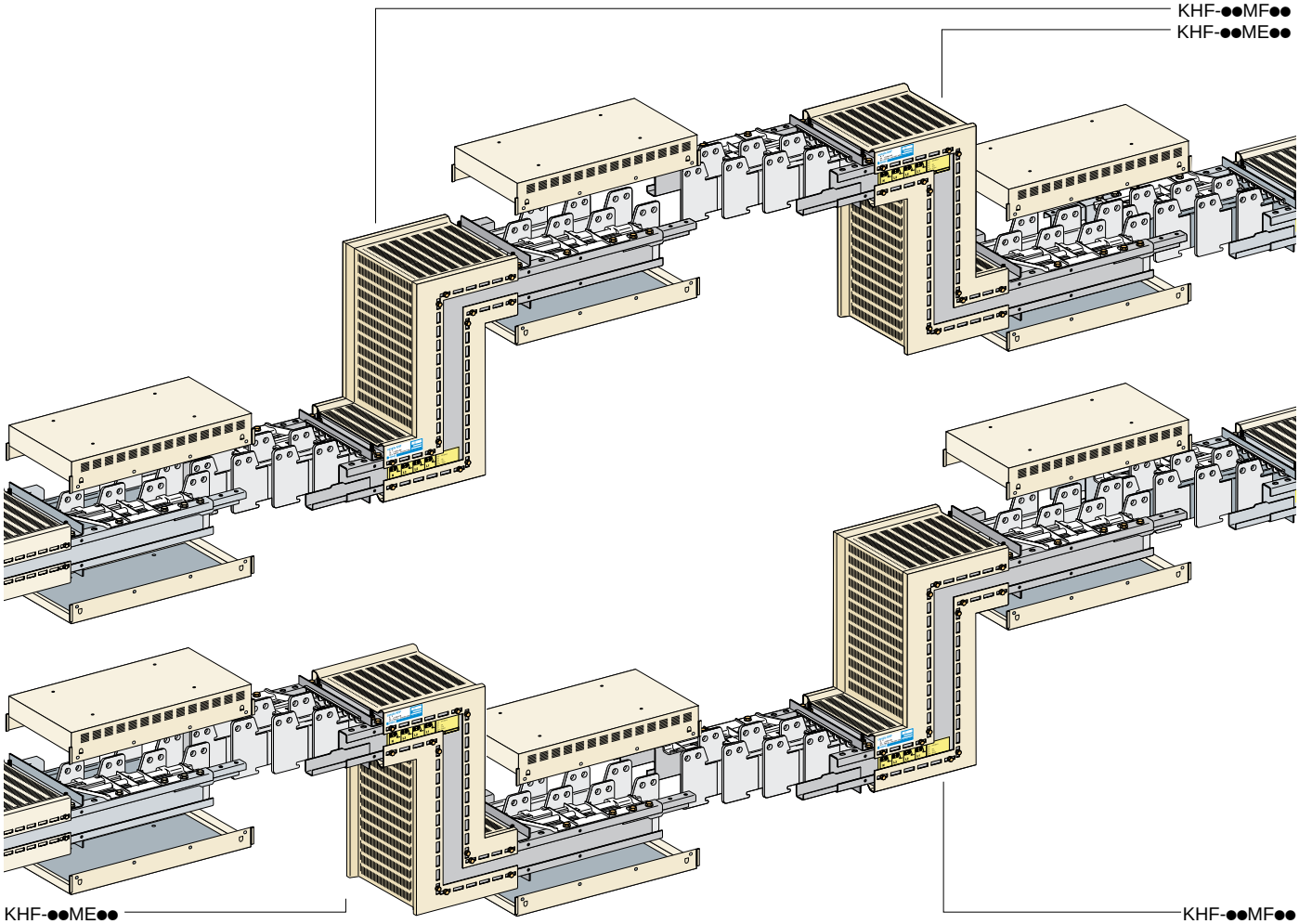


LE	Fixed	500	500	**KHF-48LE41**	**KHF-48LE21**	**KHF-48LE01**
	Made to measure	460...999	460...999	**KHF-48LE4X**	**KHF-48LE2X**	**KHF-48LE0X**
LF	Fixed	500	500	**KHF-48LF41**	**KHF-48LF21**	**KHF-48LF01**
	Made to measure	460...999	460...999	**KHF-48LF4X**	**KHF-48LF2X**	**KHF-48LF0X**

Average weight	Rating 4500 A	69 kg/m	65 kg/m	61 kg/m

(1) In the reference, for “made to measure” equipment, indicate the dimensions : see pages 10060/2 and 10060/3.


KHF-●●MB●●
KHF-●●MC●●
KHF-●●MC●●
KHF-●●MB●●

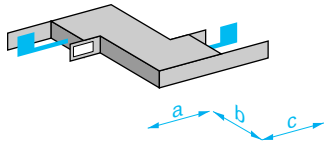

KHF-●●MF●●
KHF-●●ME●●
KHF-●●ME●●
KHF-●●MF●●

High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10071/2

Canalis KHF (1000 to 4500 A)
Zed units (1200 A and 1450 A)

References

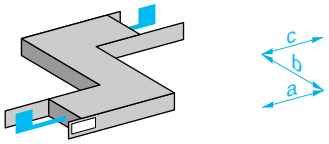


MB

Flat zed units (1200 A) (2)

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + PE Reference
MB	Made to measure (1)	410...999	200...999	410...999	**KHF-16MB1X**	**KHF-16MB0X**
MC	Made to measure (1)	410...999	200...999	410...999	**KHF-16MC1X**	**KHF-16MC0X**

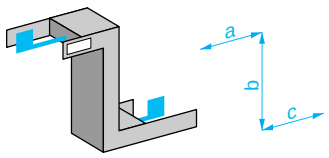
Flat zed units (1450 A)



MC

MB	Made to measure (2)	410...999	200...999	410...999	**KHF-18MB1X**	**KHF-18MB0X**
MC	Made to measure (2)	410...999	200...999	410...999	**KHF-18MC1X**	**KHF-18MC0X**

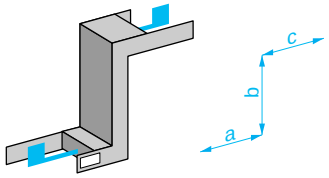
Edgewise zed units (1200 A)



ME

ME	Made to measure	460...999	100...999	460...999	**KHF-16ME1X**	**KHF-16ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-16MF1X**	**KHF-16MF0X**

Edgewise zed units (1450 A)



MF

ME	Made to measure	460...999	100...999	460...999	**KHF-18ME1X**	**KHF-18ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-18MF1X**	**KHF-18MF0X**
Average weight			Rating 1200 A		25 kg/m	24 kg/m
			Rating 1450 A		27 kg/m	26 kg/m

(1) Maximum length manufactured : 2700 mm.
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.
(2) Common to 1000 A rating

High power busbar trunking

Description :
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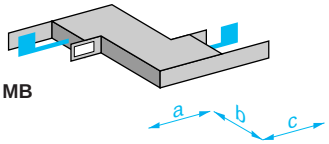
Characteristics :
page 10042/3
Dimensions :
page 10071/2

Canalis KHF (1000 to 4500 A)
Zed units (2200 A to 2500 A)

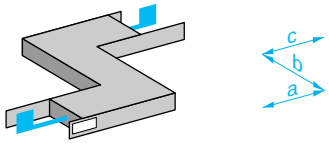
References

Flat zed units (2200 A)



MB

Type of zed unit	Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
MB Made to measure (1)	446...1035	272...1071	446...1035	**KHF-26MB2X**	**KHF-26MB1X**	**KHF-26MB0X**
MC Made to measure (1)	446...1035	272...1071	446...1035	**KHF-26MC2X**	**KHF-26MC1X**	**KHF-26MC0X**

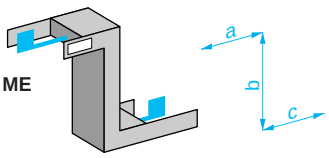


MC

Flat zed units (2500 A)

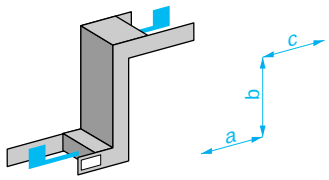
MB Made to measure (1)	446...1035	272...1071	446...1035	**KHF-28MB2X**	**KHF-28MB1X**	**KHF-28MB0X**
MC Made to measure (1)	446...1035	272...1071	446...1035	**KHF-28MC2X**	**KHF-28MC1X**	**KHF-28MC0X**

Edgewise zed units (2200 A)



ME

ME Made to measure	460...999	100...999	460...999	**KHF-26ME2X**	**KHF-26ME1X**	**KHF-26ME0X**
MF Made to measure	460...999	100...999	460...999	**KHF-26MF2X**	**KHF-26MF1X**	**KHF-26MF0X**



MF

Edgewise zed units (2500 A)

ME Made to measure	460...999	100...999	460...999	**KHF-28ME2X**	**KHF-28ME1X**	**KHF-28ME0X**
MF Made to measure	460...999	100...999	460...999	**KHF-28MF2X**	**KHF-28MF1X**	**KHF-28MF0X**
Average weight		Rating 2200 A		36 kg/m	34 kg/m	33 kg/m
		Rating 2500 A		39 kg/m	38 kg/m	36 kg/m

(1) Maximum length manufactured : 2700 mm.
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

Description :
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Selection guide :
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page 10042/3
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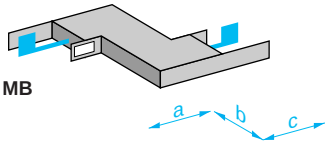
page 10071/2

Canalis KHF (1000 to 4500 A)
Zed units (3000 A to 3400 A)

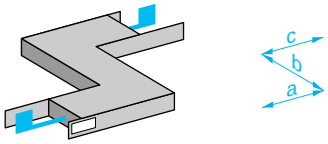
References

Flat zed units (3000 A)



MB

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
MB	Made to measure (1)	482...1071	344...1143	482...1071	**KHF-36MB3X**	**KHF-36MB2X**	**KHF-36MB0X**
MC	Made to measure (1)	482...1071	344...1143	482...1071	**KHF-36MC3X**	**KHF-36MC2X**	**KHF-36MC0X**

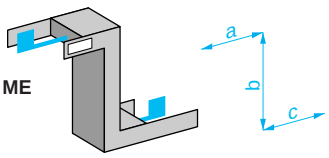


MC

Flat zed units (3400 A)

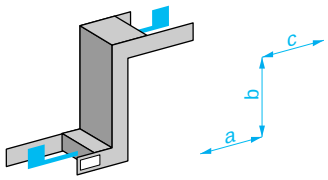
MB	Made to measure (1)	482...1071	344...1143	482...1071	**KHF-38MB3X**	**KHF-38MB2X**	**KHF-38MB0X**
MC	Made to measure (1)	482...1071	344...1143	482...1071	**KHF-38MC3X**	**KHF-38MC2X**	**KHF-38MC0X**

Edgewise zed units (3000 A)



ME

ME	Made to measure	460...999	100...999	460...999	**KHF-36ME3X**	**KHF-36ME2X**	**KHF-36ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-36MF3X**	**KHF-36MF2X**	**KHF-36MF0X**



MF

Edgewise zed units (3400 A)

ME	Made to measure	460...999	100...999	460...999	**KHF-38ME3X**	**KHF-38ME2X**	**KHF-38ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-38MF3X**	**KHF-38MF2X**	**KHF-38MF0X**

Average weight	Rating 3000 A	50 kg/m	49 kg/m	46 kg/m
	Rating 3400 A	56 kg/m	54 kg/m	50 kg/m

(1) Maximum length manufactured : 2700 mm.
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

Description :
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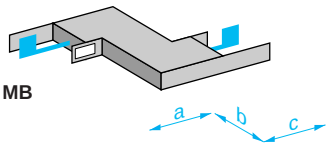
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10071/2

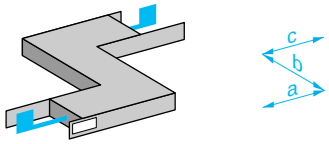
Canalis KHF (1000 to 4500 A)
Zed units (4000 A)

References

Flat zed units



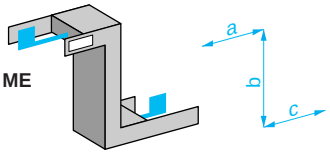
MB



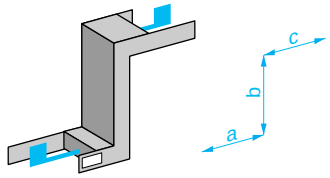
MC

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
MB	Made to measure (1)	518...1107	416...1215	518...1107	**KHF-46MB4X**	**KHF-46MB2X**	**KHF-46MB0X**
MC	Made to measure (1)	518...1107	416...1215	518...1107	**KHF-46MC4X**	**KHF-46MC2X**	**KHF-46MC0X**

Edgewise zed units



ME



MF

ME	Made to measure	460...999	100...999	460...999	**KHF-46ME4X**	**KHF-46ME2X**	**KHF-46ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-46MF4X**	**KHF-46MF2X**	**KHF-46MF0X**
Average weight			Rating 4000 A		62 kg/m	59 kg/m	55 kg/m

(1) Maximum length manufactured : 2700 mm.
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

Description :
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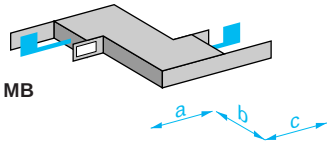
Characteristics :
page 10042/3
Dimensions :
page 10071/2

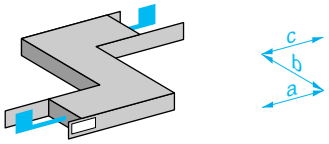
Canalis KHF (1000 to 4500 A)
Zed units (4500 A)

References

Flat zed units



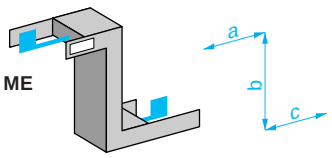
MB



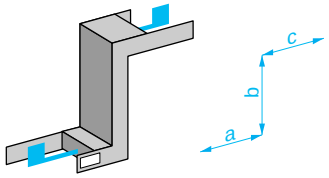
MC

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
MB	Made to measure (1)	518...1107	416...1215	518...1107	**KHF-48MB4X**	**KHF-48MB2X**	**KHF-48MB0X**
MC	Made to measure (1)	518...1107	416...1215	518...1107	**KHF-48MC4X**	**KHF-48MC2X**	**KHF-48MC0X**

Edgewise zed units



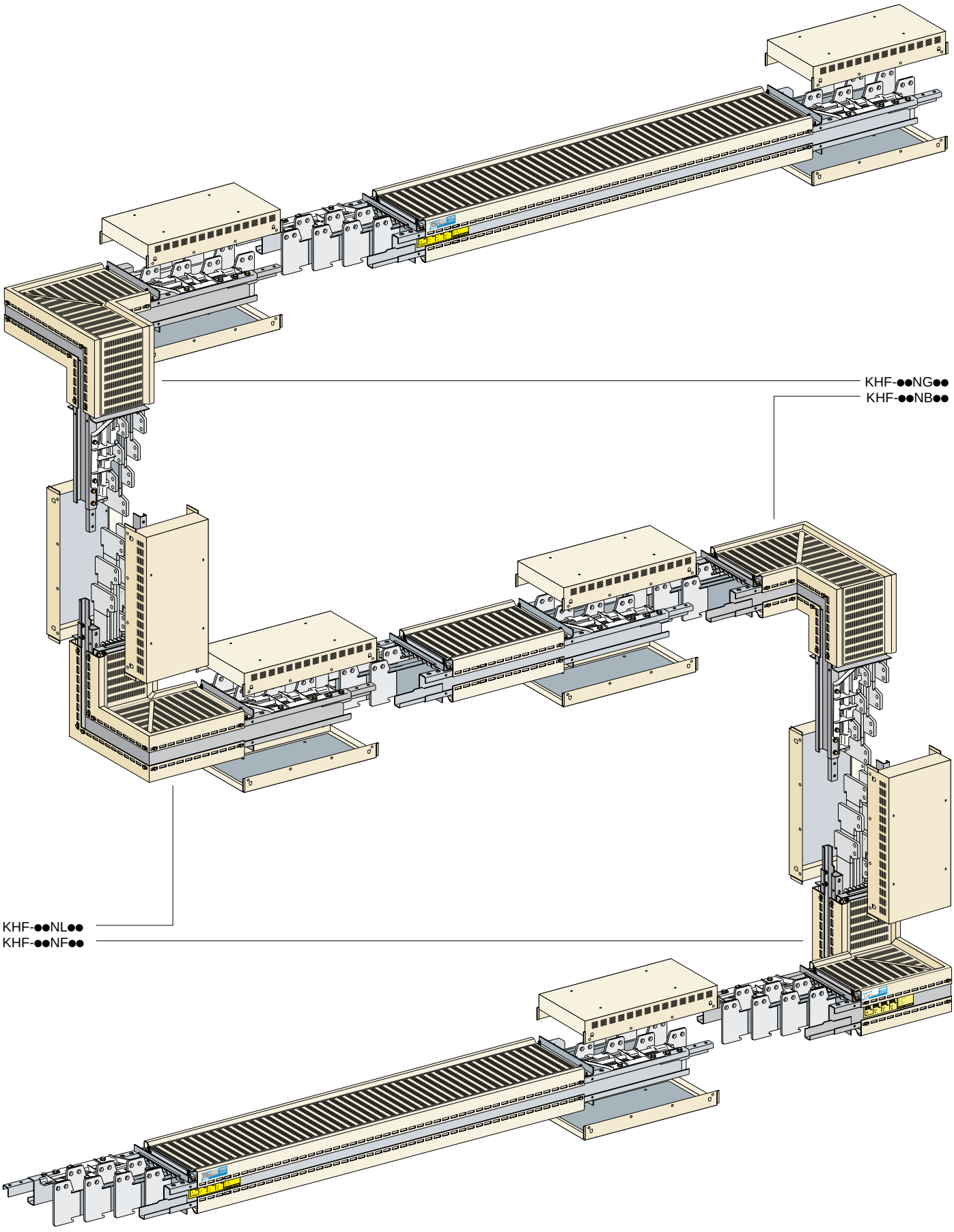
ME



MF

ME	Made to measure	460...999	100...999	460...999	**KHF-48ME4X**	**KHF-48ME2X**	**KHF-48ME0X**
MF	Made to measure	460...999	100...999	460...999	**KHF-48MF4X**	**KHF-48MF2X**	**KHF-48MF0X**
Average weight			Rating 4500 A		69 kg/m	65 kg/m	61 kg/m

(1) Maximum length manufactured : 2700 mm.
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.


KHF-●●NG●●
KHF-●●NB●●
KHF-●●NL●●
KHF-●●NF●●

High power busbar trunking

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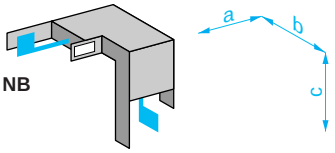
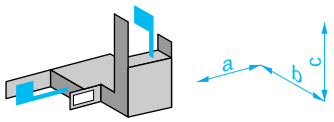
Canalis KHF (1000 to 4500 A)
Zed units (1200 A and 1450 A)

References

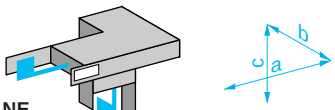
Edgewise/flat zed units (1200 A) (1)



NB



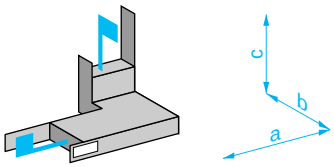
NC



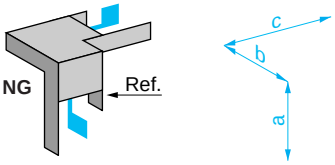
NE

Type of zed unit	Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L+ N + PE Reference	3L + PE Reference
NB Made to measure	410…999	166…999	460...999	**KHF-16NB1X**	**KHF-16NB0X**
NC Made to measure	410…999	166…999	460...999	**KHF-16NC1X**	**KHF-16NC0X**
NE Made to measure	410…999	166…999	460...999	**KHF-16NE1X**	**KHF-16NE0X**
NF Made to measure	410…999	166…999	460...999	**KHF-16NF1X**	**KHF-16NF0X**
NG Made to measure	460...999	166…999	410…999	**KHF-16NG1X**	**KHF-16NG0X**
NH Made to measure	460...999	166…999	410…999	**KHF-16NH1X**	**KHF-16NH0X**
NK Made to measure	460...999	166…999	410…999	**KHF-16NK1X**	**KHF-16NK0X**
NL Made to measure	460...999	166…999	410…999	**KHF-16NL1X**	**KHF-16NL0X**

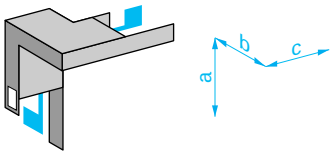
Edgewise/flat zed units (1450 A)



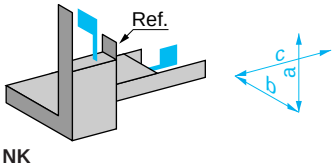
NF



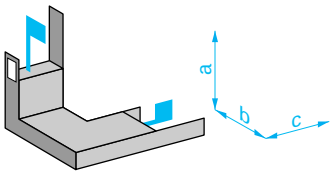
NG



NH



NK



NL

NB Made to measure	410…999	166…999	460...999	**KHF-18NB1X**	**KHF-18NB0X**
NC Made to measure	410…999	166…999	460...999	**KHF-18NC1X**	**KHF-18NC0X**
NE Made to measure	410…999	166…999	460...999	**KHF-18NE1X**	**KHF-18NE0X**
NF Made to measure	410…999	166…999	460...999	**KHF-18NF1X**	**KHF-18NF0X**
NG Made to measure	460...999	166…999	410…999	**KHF-18NG1X**	**KHF-18NG0X**
NH Made to measure	460...999	166…999	410…999	**KHF-18NH1X**	**KHF-18NH0X**
NK Made to measure	460...999	166…999	410…999	**KHF-18NK1X**	**KHF-18NK0X**
NL Made to measure	460...999	166…999	410…999	**KHF-18NL1X**	**KHF-18NL0X**
Average weight		Rating 1200 A		25 kg/m	24 kg/m
		Rating 1450 A		27 kg/m	26 kg/m

In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.
(1) Common to 1000 A rating

High power busbar trunking

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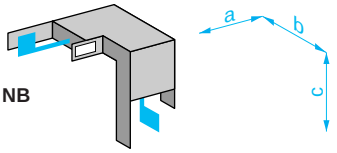
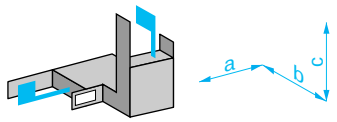
Canalis KHF (1000 to 4500 A)
3 limb zed units (2200 A to 2500 A)

References

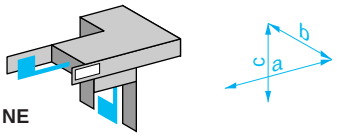
Edgewise/flat zed units (2200 A)



NB



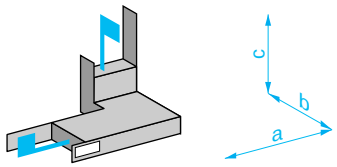
NC



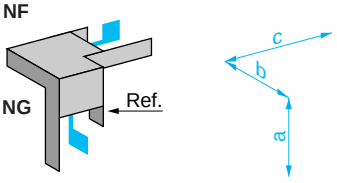
NE

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
NB	Made to measure	446…1035	202…1035	460...999	**KHF-26NB2X**	**KHF-26NB1X**	**KHF-26NB0X**
NC	Made to measure	446…1035	202…1035	460...999	**KHF-26NC2X**	**KHF-26NC1X**	**KHF-26NC0X**
NE	Made to measure	446…1035	202…1035	460...999	**KHF-26NE2X**	**KHF-26NE1X**	**KHF-26NE0X**
NF	Made to measure	446…1035	202…1035	460...999	**KHF-26NF2X**	**KHF-26NF1X**	**KHF-26NF0X**
NG	Made to measure	460…999	202…1035	446...1035	**KHF-26NG2X**	**KHF-26NG1X**	**KHF-26NG0X**
NH	Made to measure	460…999	202…1035	446...1035	**KHF-26NH2X**	**KHF-26NH1X**	**KHF-26NH0X**
NK	Made to measure	460…999	202…1035	446...1035	**KHF-26NK2X**	**KHF-26NK1X**	**KHF-26NK0X**
NL	Made to measure	460…999	202…1035	446...1035	**KHF-26NL2X**	**KHF-26NL1X**	**KHF-26NL0X**

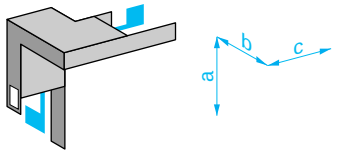
Edgewise/flat zed units (2500 A)



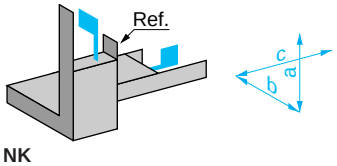
NF



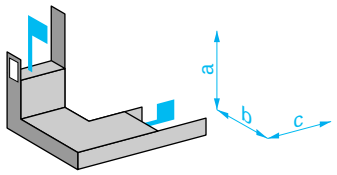
NG



NH



NK



NL

NB	Made to measure	446…1035	202…1035	460...999	**KHF-28NB2X**	**KHF-28NB1X**	**KHF-28NB0X**
NC	Made to measure	446…1035	202…1035	460...999	**KHF-28NC2X**	**KHF-28NC1X**	**KHF-28NC0X**
NE	Made to measure	446…1035	202…1035	460...999	**KHF-28NE2X**	**KHF-28NE1X**	**KHF-28NE0X**
NF	Made to measure	446…1035	202…1035	460...999	**KHF-28NF2X**	**KHF-28NF1X**	**KHF-28NF0X**
NG	Made to measure	460…999	202…1035	446...1035	**KHF-28NG2X**	**KHF-28NG1X**	**KHF-28NG0X**
NH	Made to measure	460…999	202…1035	446...1035	**KHF-28NH2X**	**KHF-28NH1X**	**KHF-28NH0X**
NK	Made to measure	460…999	202…1035	446...1035	**KHF-28NK2X**	**KHF-28NK1X**	**KHF-28NK0X**
NL	Made to measure	460…999	202…1035	446...1035	**KHF-28NL2X**	**KHF-28NL1X**	**KHF-28NL0X**
Average weight			Rating 2200 A		36 kg/m	34 kg/m	33 kg/m
			Rating 2500 A		39 kg/m	38 kg/m	36 kg/m

In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

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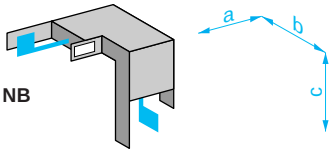
Canalis KHF (1000 to 4500 A)
Zed units (3000 A to 3400 A)

References



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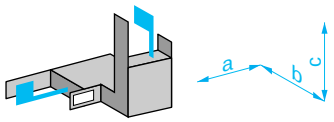

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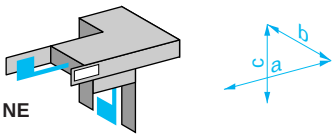

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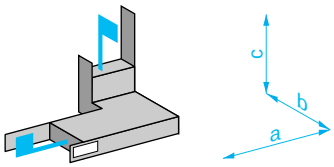

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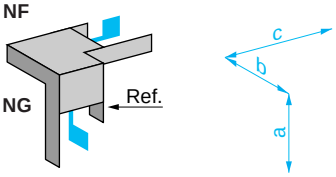

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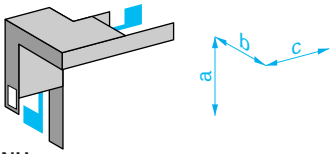

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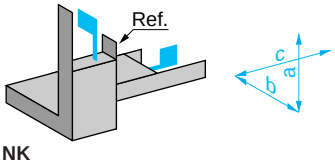

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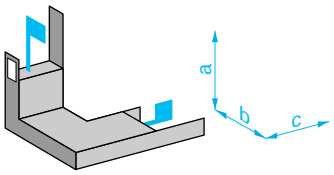

NL

Edgewise/flat zed units (3000 A)

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
NB	Made to measure	482…1071	238…1071	460...999	**KHF-36NB3X**	**KHF-36NB2X**	**KHF-36NB0X**
NC	Made to measure	482…1071	238…1071	460...999	**KHF-36NC3X**	**KHF-36NC2X**	**KHF-36NC0X**
NE	Made to measure	482…1071	238…1071	460...999	**KHF-36NE3X**	**KHF-36NE2X**	**KHF-36NE0X**
NF	Made to measure	482…1071	238…1071	460...999	**KHF-36NF3X**	**KHF-36NF2X**	**KHF-36NF0X**
NG	Made to measure	460...999	238…1071	482…1071	**KHF-36NG3X**	**KHF-36NG2X**	**KHF-36NG0X**
NH	Made to measure	460...999	238…1071	482…1071	**KHF-36NH3X**	**KHF-36NH2X**	**KHF-36NH0X**
NK	Made to measure	460...999	238…1071	482…1071	**KHF-36NK3X**	**KHF-36NK2X**	**KHF-36NK0X**
NL	Made to measure	460...999	238…1071	482…1071	**KHF-36NL3X**	**KHF-36NL2X**	**KHF-36NL0X**

Edgewise/flat zed units (3400 A)

NB	Made to measure	482…1071	238…1071	460...999	**KHF-38NB3X**	**KHF-38NB2X**	**KHF-38NB0X**
NC	Made to measure	482…1071	238…1071	460...999	**KHF-38NC3X**	**KHF-38NC2X**	**KHF-38NC0X**
NE	Made to measure	482…1071	238…1071	460...999	**KHF-38NE3X**	**KHF-38NE2X**	**KHF-38NE0X**
NF	Made to measure	482…1071	238…1071	460...999	**KHF-38NF3X**	**KHF-38NF2X**	**KHF-38NF0X**
NG	Made to measure	460...999	238…1071	482…1071	**KHF-38NG3X**	**KHF-38NG2X**	**KHF-38NG0X**
NH	Made to measure	460...999	238…1071	482…1071	**KHF-38NH3X**	**KHF-38NH2X**	**KHF-38NH0X**
NK	Made to measure	460...999	238…1071	482…1071	**KHF-38NK3X**	**KHF-38NK2X**	**KHF-38NK0X**
NL	Made to measure	460...999	238…1071	482…1071	**KHF-38NL3X**	**KHF-38NL2X**	**KHF-38NL0X**
Average weight			Rating 3000 A		50 kg/m	49 kg/m	46 kg/m
			Rating 3400 A		56 kg/m	54 kg/m	50 kg/m

In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

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Dimensions :
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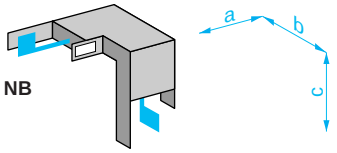
Canalis KHF (1000 to 4500 A)
Zed units (4000 A)

References

Edgewise/flat zed units



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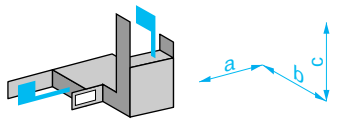

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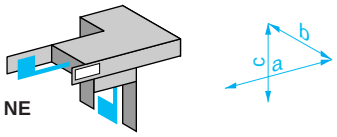

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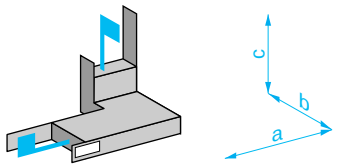
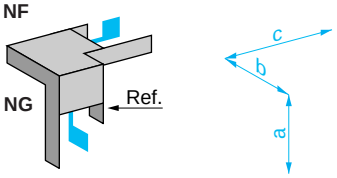
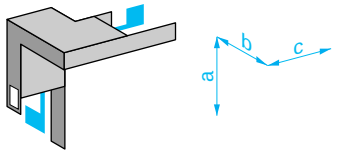


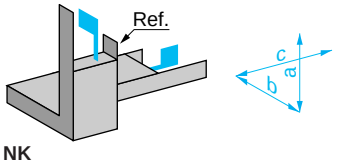
NF



NG



NH



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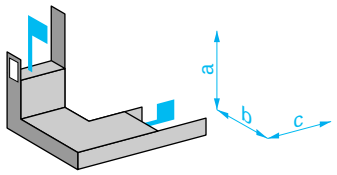

NL

Type of zed unit		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
NB	Made to measure	518...1107	274...1107	460...999	**KHF-46NB4X**	**KHF-46NB2X**	**KHF-46NB0X**
NC	Made to measure	518...1107	274..1107	460...999	**KHF-46NC4X**	**KHF-46NC2X**	**KHF-46NC0X**
NE	Made to measure	518...1107	274...1107	460...999	**KHF-46NE4X**	**KHF-46NE2X**	**KHF-46NE0X**
NF	Made to measure	518...1107	274...1107	460...999	**KHF-46NF4X**	**KHF-46NF2X**	**KHF-46NF0X**
NG	Made to measure	460...999	274...1107	518...1107	**KHF-46NG4X**	**KHF-46NG2X**	**KHF-46NG0X**
NH	Made to measure	460...999	274...1107	518...1107	**KHF-46NH4X**	**KHF-46NH2X**	**KHF-46NH0X**
NK	Made to measure	460...999	274...1107	518...1107	**KHF-46NK4X**	**KHF-46NK2X**	**KHF-46NK0X**
NL	Made to measure	460...999	274...1107	518...1107	**KHF-46NL4X**	**KHF-46NL2X**	**KHF-46NL0X**
Average weight			Rating 4000 A		62 kg/m	59 kg/m	55 kg/m

In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.

High power busbar trunking

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Characteristics :
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Dimensions :
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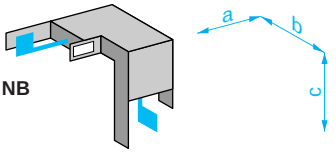
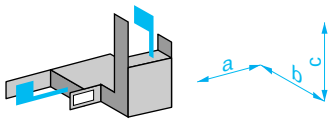
Canalis KHF (1000 to 4500 A)
Zed units (4500 A)

References

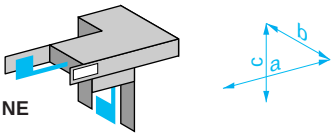
Edgewise/flat zed units



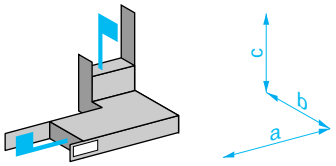
NB



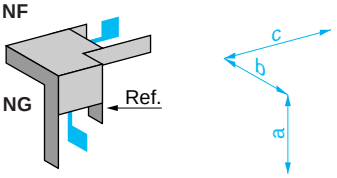
NC



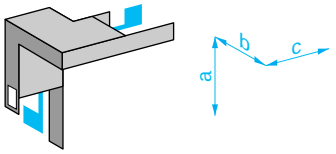
NE



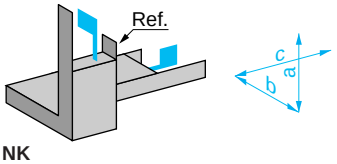
NF



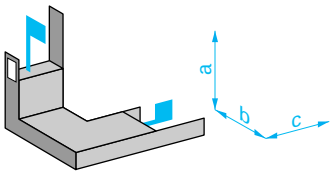
NG



NH



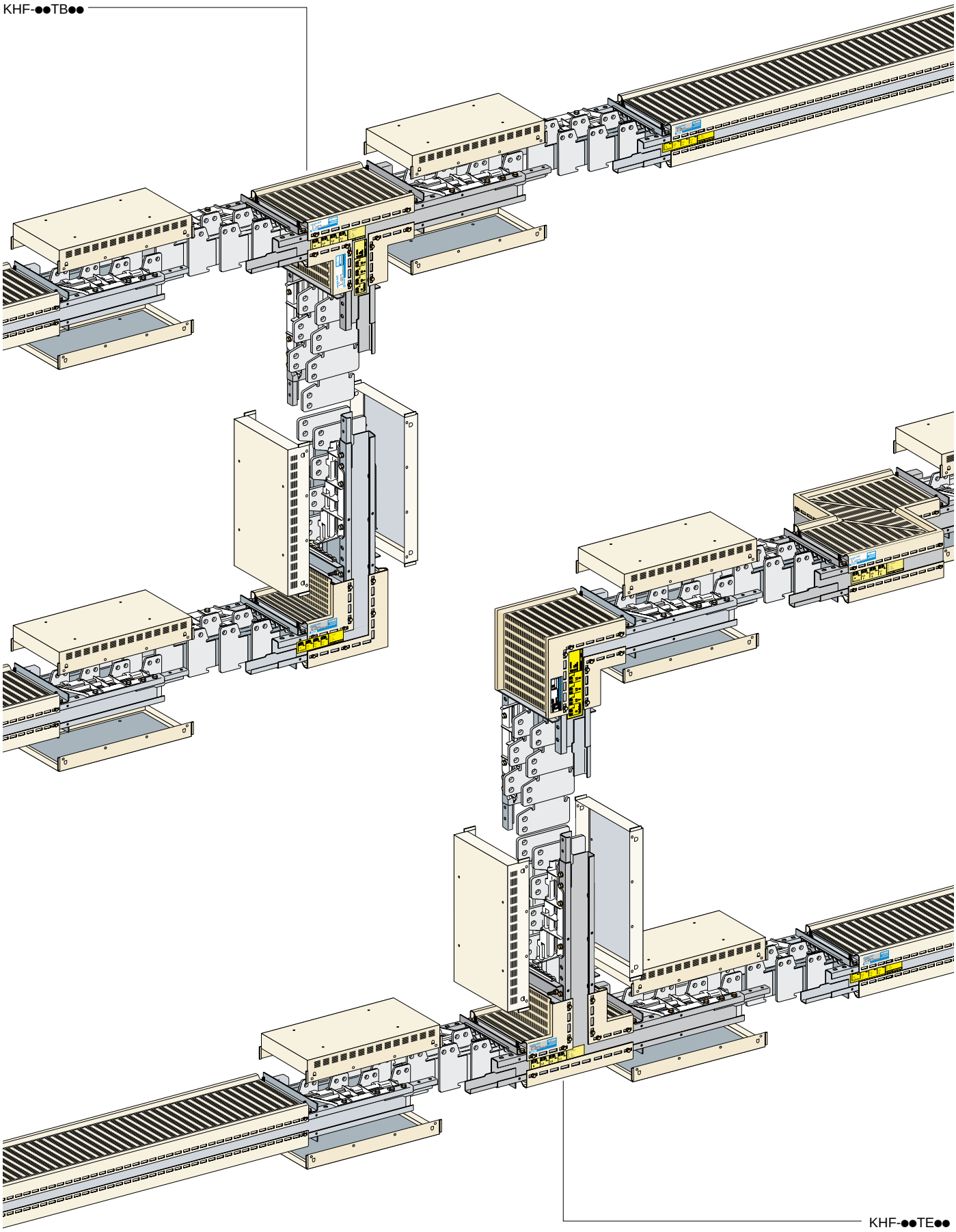
NK



NL

Type of zed unit	Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
NB Made to measure	518…1107	274…1107	460...999	**KHF-48NB4X**	**KHF-48NB2X**	**KHF-48NB0X**
NC Made to measure	518…1107	274..1107	460...999	**KHF-48NC4X**	**KHF-48NC2X**	**KHF-48NC0X**
NE Made to measure	518…1107	274…1107	460...999	**KHF-48NE4X**	**KHF-48NE2X**	**KHF-48NE0X**
NF Made to measure	518…1107	274…1107	460...999	**KHF-48NF4X**	**KHF-48NF2X**	**KHF-48NF0X**
NG Made to measure	460…999	274…1107	518...1107	**KHF-48NG4X**	**KHF-48NG2X**	**KHF-48NG0X**
NH Made to measure	460...999	274…1107	518...1107	**KHF-48NH4X**	**KHF-48NH2X**	**KHF-48NH0X**
NK Made to measure	460...999	274…1107	518...1107	**KHF-48NK4X**	**KHF-48NK2X**	**KHF-48NK0X**
NL Made to measure	460...999	274…1107	518...1107	**KHF-48NL4X**	**KHF-48NL2X**	**KHF-48NL0X**
Average weight		Rating 4500 A		69 kg/m	65 kg/m	61 kg/m

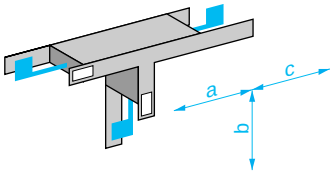
In the “made to measure” reference, indicate the dimensions : see pages 10060/2 and 10060/3.


KHF-●●TB●●
KHF-●●TE●●

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10072/2

Canalis KHF (1000 to 4500 A)
Edgewise tee (1200 A and 1450 A)

References



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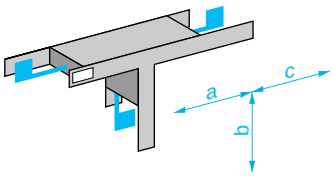
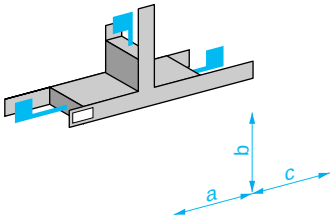
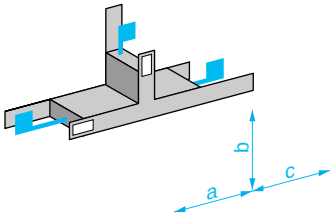


TC



TE



TF

Edgewise tee (1200 A)(1)

Type of tee		Length a Min...Max mm	Length b Min...Max mm	Length c Min...Max mm	3L + N + PE Reference	3L + PE Reference
TB	Made to measure	460...999	460...999	460...999	**KHF-16TB1X**	**KHF-16TB0X**
TC	Made to measure	460...999	460...999	460...999	**KHF-16TC1X**	**KHF-16TC0X**
TE	Made to measure	460...999	460...999	460...999	**KHF-16TE1X**	**KHF-16TE0X**
TF	Made to measure	460...999	460...999	460...999	**KHF-16TF1X**	**KHF-16TF0X**

Edgewise tee (1450 A)

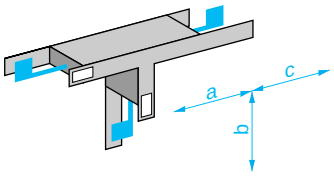
TB	Made to measure	460...999	460...999	460...999	**KHF-18TB1X**	**KHF-18TB0X**
TC	Made to measure	460...999	460...999	460...999	**KHF-18TC1X**	**KHF-18TC0X**
TE	Made to measure	460...999	460...999	460...999	**KHF-18TE1X**	**KHF-18TE0X**
TF	Made to measure	460...999	460...999	460...999	**KHF-18TF1X**	**KHF-18TF0X**
Average weight			Rating 1200 A		25 kg/m	24 kg/m
			Rating 1450 A		27 kg/m	26 kg/m

In the reference “made to measure”, indicate the dimensions : see pages 10060/2 and 10060/3.
(1) Common to 1000 A rating

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10072/2

Canalis KHF (1000 to 4500 A)
Edgewise tee (2200 A to 3400 A)

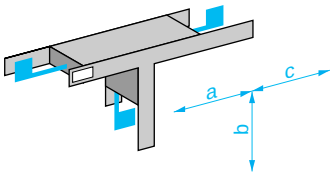
References



TB

Edgewise tee (2200 A)

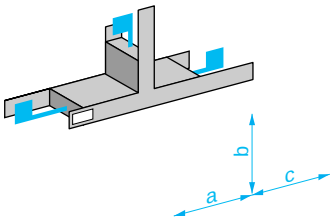
Type of tee		Length a Min…Max mm	Length b Min…Max mm	Length c Min…Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
TB	Made to measure	460…999	460…999	460…999	**KHF-26TB2X**	**KHF-26TB1X**	**KHF-26TB0X**
TC	Made to measure	460…999	460…999	460…999	**KHF-26TC2X**	**KHF-26TC1X**	**KHF-26TC0X**
TE	Made to measure	460…999	460…999	460…999	**KHF-26TE2X**	**KHF-26TE1X**	**KHF-26TE0X**
TF	Made to measure	460…999	460…999	460…999	**KHF-26TF2X**	**KHF-26TF1X**	**KHF-26TF0X**



TC

Edgewise tee (2500 A)

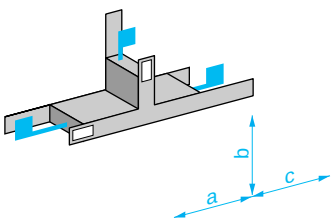
TB	Made to measure	460…999	460…999	460…999	**KHF-28TB2X**	**KHF-28TB1X**	**KHF-28TB0X**
TC	Made to measure	460…999	460…999	460…999	**KHF-28TC2X**	**KHF-28TC1X**	**KHF-28TC0X**
TE	Made to measure	460…999	460…999	460…999	**KHF-28TE2X**	**KHF-28TE1X**	**KHF-28TE0X**
TF	Made to measure	460…999	460…999	460…999	**KHF-28TF2X**	**KHF-28TF1X**	**KHF-28TF0X**



TE

Edgewise tee (3000 A)

TB	Made to measure	460..999	460..999	460..999	**KHF-36TB3X**	**KHF-36TB2X**	**KHF-36TB0X**
TC	Made to measure	460..999	460..999	460..999	**KHF-36TC3X**	**KHF-36TC2X**	**KHF-36TC0X**
TE	Made to measure	460..999	460..999	460..999	**KHF-36TE3X**	**KHF-36TE2X**	**KHF-36TE0X**
TF	Made to measure	460..999	460...999	460..999	**KHF-36TF3X**	**KHF-36TF2X**	**KHF-36TF0X**



TF

Edgewise tee (3400 A)

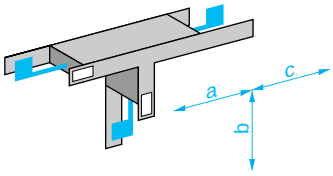
TB	Made to measure	460..999	460..999	460..999	**KHF-38TB3X**	**KHF-38TB2X**	**KHF-38TB0X**
TC	Made to measure	460..999	460..999	460..999	**KHF-38TC3X**	**KHF-38TC2X**	**KHF-38TC0X**
TE	Made to measure	460..999	460..999	460..999	**KHF-38TE3X**	**KHF-38TE2X**	**KHF-38TE0X**
TF	Made to measure	460..999	460...999	460..999	**KHF-38TF3X**	**KHF-38TF2X**	**KHF-38TF0X**
Average weight			Rating 2200 A		36 kg/m	34 kg/m	33 kg/m
			Rating 2500 A		39 kg/m	38 kg/m	36 kg/m
			Rating 3000 A		50 kg/m	49 kg/m	46 kg/m
			Rating 3400 A		56 kg/m	54 kg/m	50 kg/m

In the reference “made to measure”, indicate the dimensions : see pages 10060/2 and 10060/3.

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10072/2

Canalis KHF (1000 to 4500 A)
Edgewise tee (4000 A to 4500 A)

References



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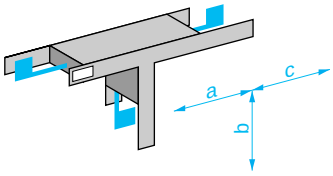
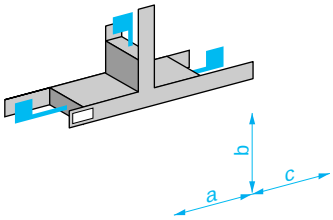


TC



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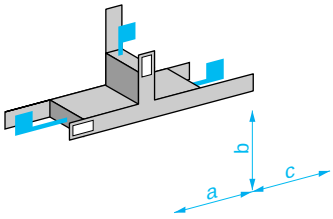


TF

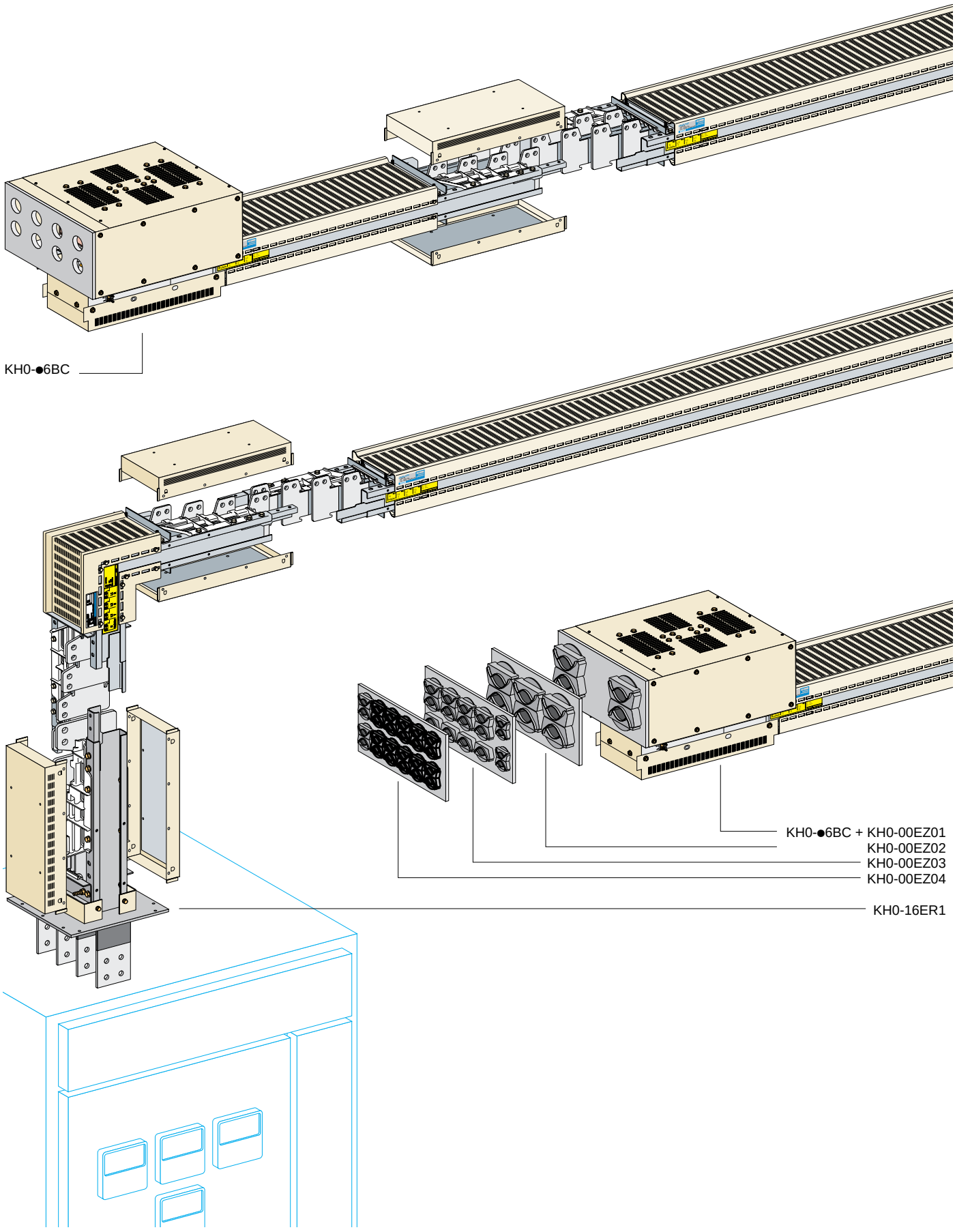
Edgewise tee (4000 A)

Type of tee		Length a Min…Max mm	Length b Min…Max mm	Length c Min…Max mm	3L + N + PE Reference	3L + N/2 + PE Reference	3L + PE Reference
TB	Made to measure	460..999	460..999	460..999	**KHF-46TB4X**	**KHF-46TB2X**	**KHF-46TB0X**
TC	Made to measure	460..999	460..999	460..999	**KHF-46TC4X**	**KHF-46TC2X**	**KHF-46TC0X**
TE	Made to measure	460..999	460..999	460..999	**KHF-46TE4X**	**KHF-46TE2X**	**KHF-46TE0X**
TF	Made to measure	460..999	460...999	460..999	**KHF-46TF4X**	**KHF-46TF2X**	**KHF-46TF0X**

Edgewise tee (4500 A)

TB	Made to measure	460..999	460..999	460..999	**KHF-48TB4X**	**KHF-48TB2X**	**KHF-48TB0X**
TC	Made to measure	460..999	460..999	460..999	**KHF-48TC4X**	**KHF-48TC2X**	**KHF-48TC0X**
TE	Made to measure	460..999	460..999	460..999	**KHF-48TE4X**	**KHF-48TE2X**	**KHF-48TE0X**
TF	Made to measure	460..999	460...999	460..999	**KHF-48TF4X**	**KHF-48TF2X**	**KHF-48TF0X**
Average weight			Rating 4000 A		62 kg/m	59 kg/m	55 kg/m
			Rating 4500 A		69 kg/m	65 kg/m	61 kg/m

In the reference “made to measure”, indicate the dimensions : see pages 10060/2 and 10060/3.


KH0-●6BC
KH0-●6BC + KH0-00EZ01
KH0-00EZ02
KH0-00EZ03
KH0-00EZ04
KH0-16ER1

Description :
pages 10041/2 and 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10072/2

Canalis KHF (1000 to 4500 A)
Cable end feed units (1000 to 3400 A)
Flanged end feed units 1600 A

References

Cable end feed units

For connecting cables with lugs to a copper bar

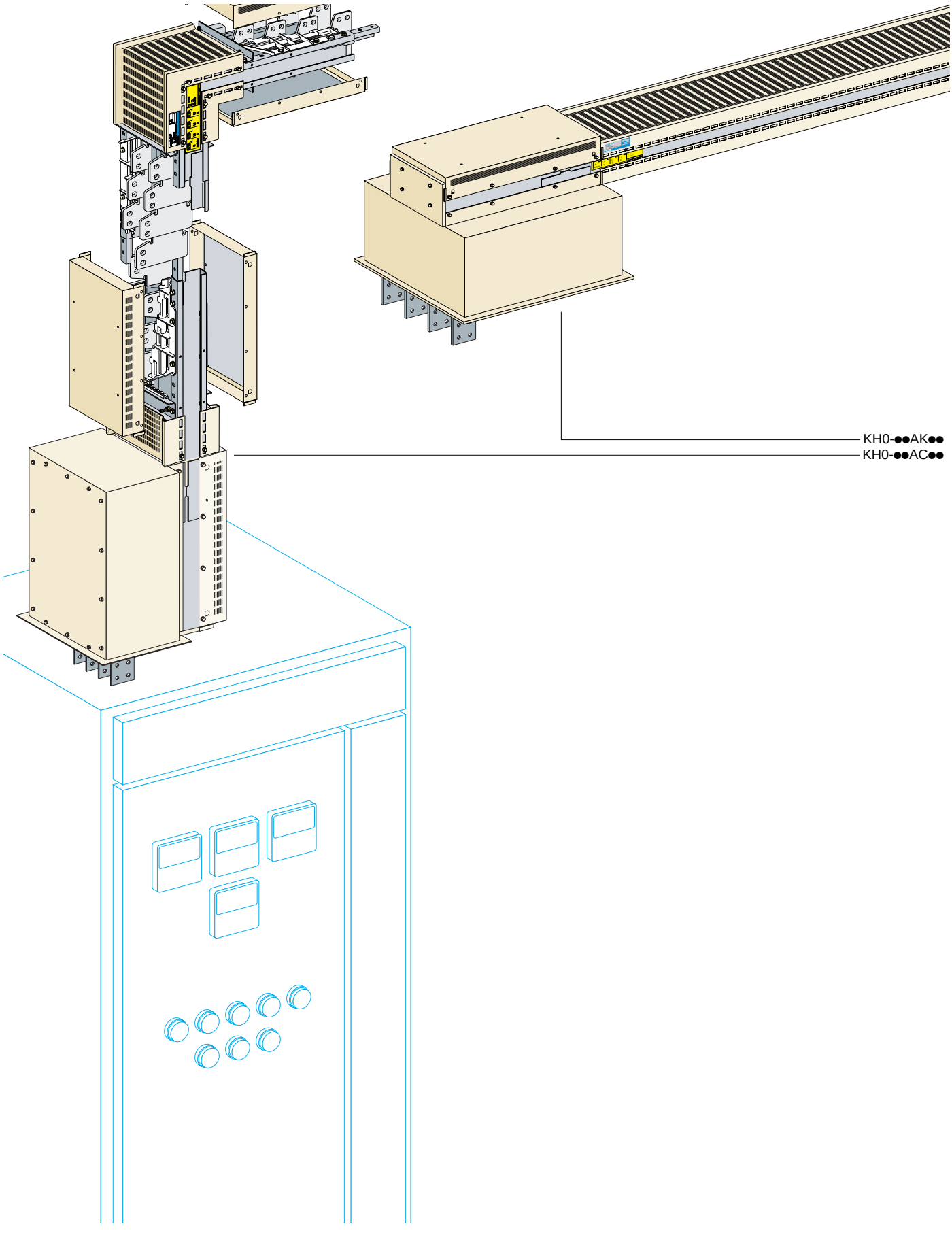
Rating of the busbar trunking	Type of conductor	Connection capacity	3L + N + PE Reference / Weight	3L + 1/2 N + PE Reference / Weight	3L + PE Reference / Weight
		mm²	kg	kg	kg
KHF-14, KHF-16 KHF-18,	Phase and neutral PE	4 x 300 1 x 150	**KH0-16BC1** 42.000	**–**	**KH0-16BC0** 40.000
KHF-26, KHF-26	Phase and neutral PE	6 x 300 1 x 150	**KH0-26BC2** 55.000	**KH0-26BC1** 53.000	**KH0-26BC0** 50.000
KHF-36, KHF-38	Phase and neutral PE	8 x 300 1 x 150	**KH0-36BC3** 75.000	**KH0-36BC2** 70.000	**KH0-36BC0** 67.000

Gland plate for cable end feed units

Device	Reference	Weight kg
4 x cable clamps 30…70 mm	**KH0-00EZ01**	6.000
6 x cable clamps 30…70 mm	**KH0-00EZ02**	8.000
12 x cable clamps 25…40 mm and 4 x cable clamps 16…30 mm	**KH0-00EZ03**	3.500
24 x cable clamps 16…30 mm	**KH0-00EZ04**	3.500

Flanged end feed units

Use	Reference	Weight kg
For 1000 to 1450 A busbar trunking only	**KH0-16ER1**	20.000

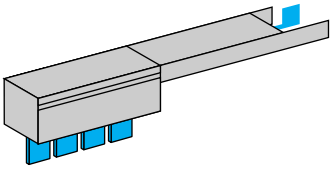

KH0-●●AK●●
KH0-●●AC●●

High power busbar trunking

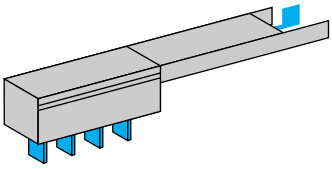
Description :
pages 10041/2 to 10041/5
Selection guide:
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10072/3 to 10072/6

Canalis KHF (1000 to 4500 A)
End feed units for KHF (1000 A, 1200 A and 1450 A) busbar trunking

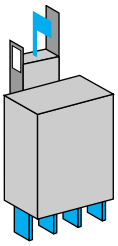
References



AA



AB



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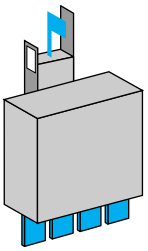
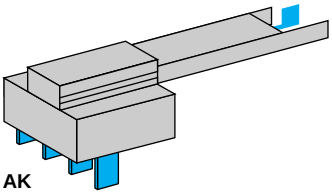
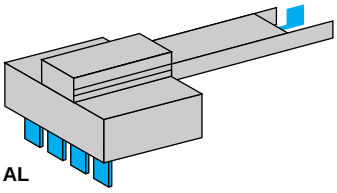


AD



AK



AL

Type of trunking		3L + N + PE	3L + PE
Type of unit	Distance between busbars Min..Max	Reference Weight	Reference Weight
	mm	kg	kg
AA (1)	124	**KH0-16AA11** 19.000	**KH0-16AA01** 16.500
	160..200 (2)	**KH0-16AA12** 22.600	**KH0-16AA02** 19.600
AB (1)	124	**KH0-16AB11** 19.000	**KH0-16AB01** 16.500
	160..200 (2)	**KH0-16AB12** 22.600	**KH0-16AB02** 19.600
AC	80	**KH0-16AC11** 38.000	**KH0-16AC01** 33.000
AD	120	**KH0-16AD11** 41.800	**KH0-16AD01** 36.300
	120…200 (2)	**KH0-16AD12** 45.600	**KH0-16AD02** 39.600
AK	80	**KH0-16AK11** 38.000	**KH0-16AK01** 33.000
AL	120	**KH0-16AL11** 41.800	**KH0-16AL01** 36.300
	120…200 (2)	**KH0-16AL12** 45.600	**KH0-16AL02** 39.600

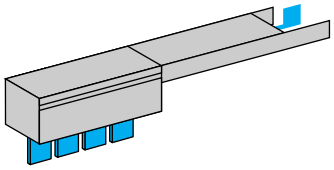
(1) Phase sequence is that of the busbar trunking.
(2) To order a customized unit, see method on page 10060/3.

High power busbar trunking

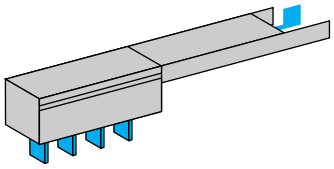
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10072/3 to 10072/6

Canalis KHF (1000 to 4500 A)
End feed units for KHF (2200 A, 2500 A) busbar trunking

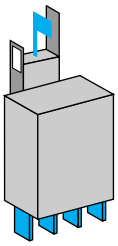
References



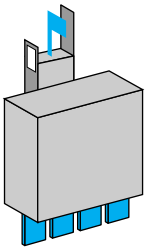
AA



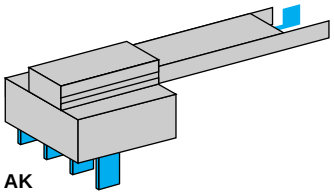
AB



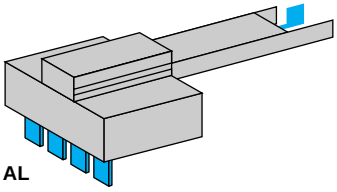
AC



AD



AK



AL

Type of trunking		3L + N + PE	3L + N/2 + PE	3L + PE
Type of unit	Distance between busbars Min..Max	Reference Weight	Reference Weight	Reference Weight
	mm	kg	kg	kg
AA (1)	124	**KH0-26AA21** 30.000	**KH0-26AA11** 28.000	**KH0-26AA01** 25.500
	160..200 (2)	**KH0-26AA22** 36.000	**KH0-26AA12** 33.600	**KH0-26AA02** 30.600
AB (1)	124	**KH0-26AB21** 30.000	**KH0-26AB11** 28.000	**KH0-26AB01** 25.500
	160..200 (2)	**KH0-26AB22** 36.000	**KH0-26AB12** 33.600	**KH0-26AB02** 30.600
AC	80	**KH0-26AC21** 60.000	**KH0-26AC11** 56.000	**KH0-26AC01** 51.000
AD	120	**KH0-26AD21** 66.000	**KH0-26AD11** 61.600	**KH0-26AD01** 56.100
	120…200 (2)	**KH0-26AD22** 72.000	**KH0-26AD12** 67.200	**KH0-26AD02** 61.200
AK	80	**KH0-26AK21** 60.000	**KH0-26AK11** 56.000	**KH0-26AK01** 51.000
AL	120	**KH0-26AL21** 66.000	**KH0-26AL11** 61.600	**KH0-26AL01** 56.100
	120…200 (2)	**KH0-26AL22** 72.000	**KH0-26AL12** 67.200	**KH0-26AL02** 61.200

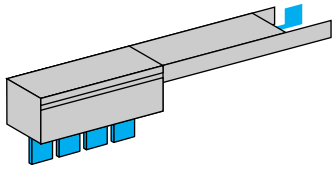
(1) Phase sequence is that of the busbar trunking.
(2) To order a customized unit, see method on page 10060/3.

High power busbar trunking

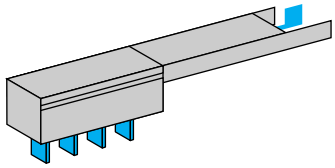
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10072/3 to 10072/6

Canalis KHF (1000 to 4500 A)
End feed units for KHF (3000-3400 A and 4000-4500 A) busbar trunking

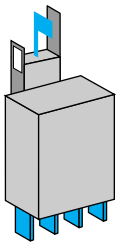
References



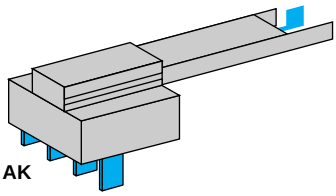
AA



AB



AC



AK

Type of trunking		3L + N + PE	3L + N/2 + PE	3L + PE	
Type of unit	Distance between busbars (Min..Max)	Rating	Reference Weight	Reference Weight	Reference Weight
	mm	**A**	kg	kg	kg
AA (1)	124	3000, 3400	**KH0-36AA31** 43.500	**KH0-36AA21** 41.000	**KH0-36AA01** 36.500
		4000, 4500	**KH0-46AA41** 55.000	**KH0-46AA21** 50.500	**KH0-46AA01** 46.000
	160..200 (2)	3000, 3400	**KH0-36AA32** 52.200	**KH0-36AA22** 49.200	**KH0-36AA02** 43.600
		4000, 4500	**KH0-46AA42** 66.000	**KH0-46AA22** 60.600	**KH0-46AA02** 55.200
AB (1)	124	3000, 3400	**KH0-36AB31** 43.500	**KH0-36AB21** 41.000	**KH0-36AB01** 36.500
		4000, 4500	**KH0-46AB41** 55.000	**KH0-46AB21** 50.500	**KH0-46AB01** 46.000
	160..200 (2)	3000, 3400	**KH0-36AB32** 52.200	**KH0-36AB22** 49.200	**KH0-36AB02** 43.600
		4000, 4500	**KH0-46AB42** 66.000	**KH0-46AB22** 60.600	**KH0-46AB02** 55.200
AC	120	3000, 3400	**KH0-36AC31** 87.000	**KH0-36AC21** 82.000	**KH0-36AC01** 73.000
		4000, 4500	**KH0-46AC41** 110.000	**KH0-46AC21** 101.000	**KH0-46AC01** 92.000
AK	120	3000, 3400	**KH0-36AK31** 87.000	**KH0-36AK21** 82.000	**KH0-36AK01** 73.000
		4000, 4500	**KH0-46AK41** 110.000	**KH0-46AK21** 101.000	**KH0-46AK01** 92.000

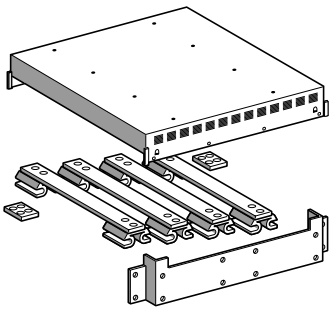
(1) Phase sequence is that of the busbar trunking.
(2) To order a customized unit, see method on page 10060/3.

Description :
pages 8 to 11
Selection guide :
page 12
Characteristics :
page 13
Dimensions :
page 67

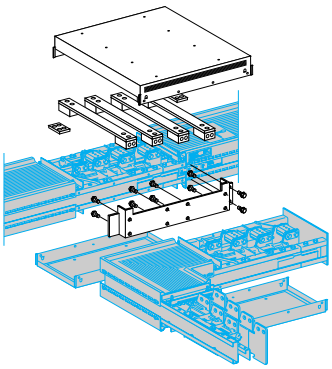
Canalis KHF (1000 to 4500 A)
Accessories

References

Sets of bars for connecting KHF trunking



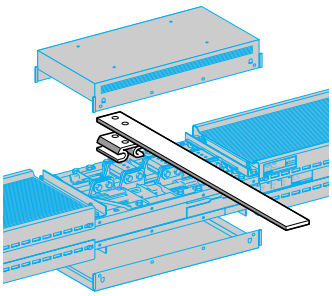
KH0-16PB●●●●



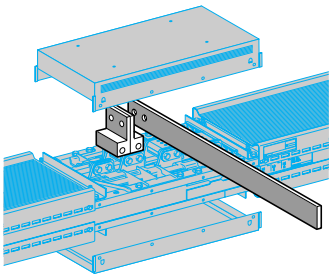
Exemple

Line rating	Elbow rating (tap-off)	3L + N + PE Reference	3L + 1/2 N + PE Reference	3L + PE Reference
A	**A**			
1000…1450	1450	**KH0-16PB1161**	**–**	**KH0-16PB0160**
2200…2500	1200	**KH0-26PB2161**	**KH0-26PB1161**	**KH0-26PB0160**
	2500	**KH0-26PB2262**	**KH0-26PB1261**	**KH0-26PB0260**
3000…3400	1450	**KH0-36PB3161**	**KH0-36PB2161**	**KH0-36PB0160**
	2500	**KH0-36PB3262**	**KH0-36PB2261**	**KH0-36PB0260**
	3400	**KH0-36PB3363**	**KH0-36PB2362**	**KH0-36PB0360**
4000…4500	1450	**KH0-46PB4161**	**KH0-46PB2161**	**KH0-46PB0160**
	2500	**KH0-46PB4262**	**KH0-46PB2261**	**KH0-46PB0260**
	3400	**KH0-46PB4363**	**KH0-46PB2362**	**KH0-46PB0360**
	4500	**KH0-46PB4464**	**KH0-46PB2462**	**KH0-46PB0460**

Connection accessories



KH0-00YA11



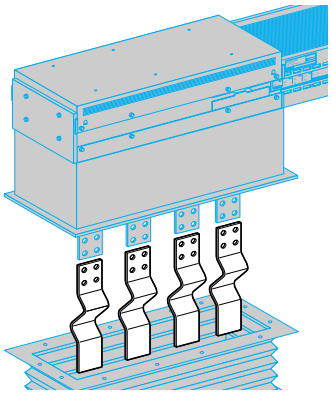
KH0-00YA2

Description	Rating	3L + N + PE Reference	3L + 1/2 N + PE Reference	3L + PE Reference
	A			
Jointing kit Required for connecting two lengths	1000, 1200, 1450	**KH0-16YA1**	**–**	**KH0-16YA0**
	2200, 2500	**KH0-26YA2**	**KH0-26YA1**	**KH0-26YA0**
	3000, 3400	**KH0-36YA3**	**KH0-36YA2**	**KH0-36YA0**
	4000, 4500	**KH0-46YA4**	**KH0-46YA2**	**KH0-46YA0**
Equipotential block	All ratings	**KH0-00YA11**		
T-shaped equipotential block	All ratings	**KH0-00YA2**		

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
page 10072/7

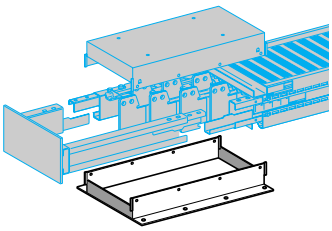
References

Connection accessories (continued)



KH0-00YA●●

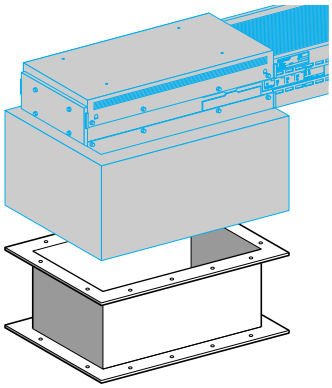
Description	Rating	3L + N + PE Reference	3L + 1/2 N + PE Reference	3L + PE Reference
	A			
Vibration absorber connection bars (5 flexible bars L : 0,4 m) Composed of flexible copper bars 100 x 1 mm, preformed and insulated, stripped and drilled at one end	1500	**KH0-00YA75**		
Connection via braid Composed of a bare copper braid in tinned copper tubing, drilled at one end	1600	**KH0-00YA9**		



KH0-01RT1

Flexible bars (5 flexible bars L : 3 m) Composed of flexible copper bars 100 x 1 mm, insulated along their length	1500	**KH0-00YA85**

Protective cover



KH0-03RT1

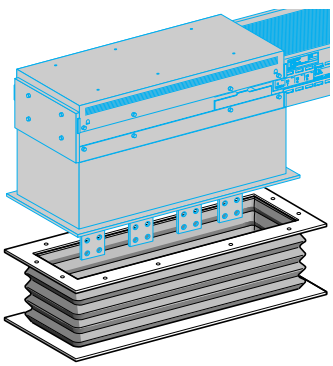
Description	Reference
Adapted to the width of the trunking The dimensions of these covers should be specified with the production order	**KH0-01RT1**
Adapted to the requirement The dimensions of these covers should be specified with the production order	**KH0-03RT1**

Fixing device (Order in multiples of 10)

KH0-00ZA5

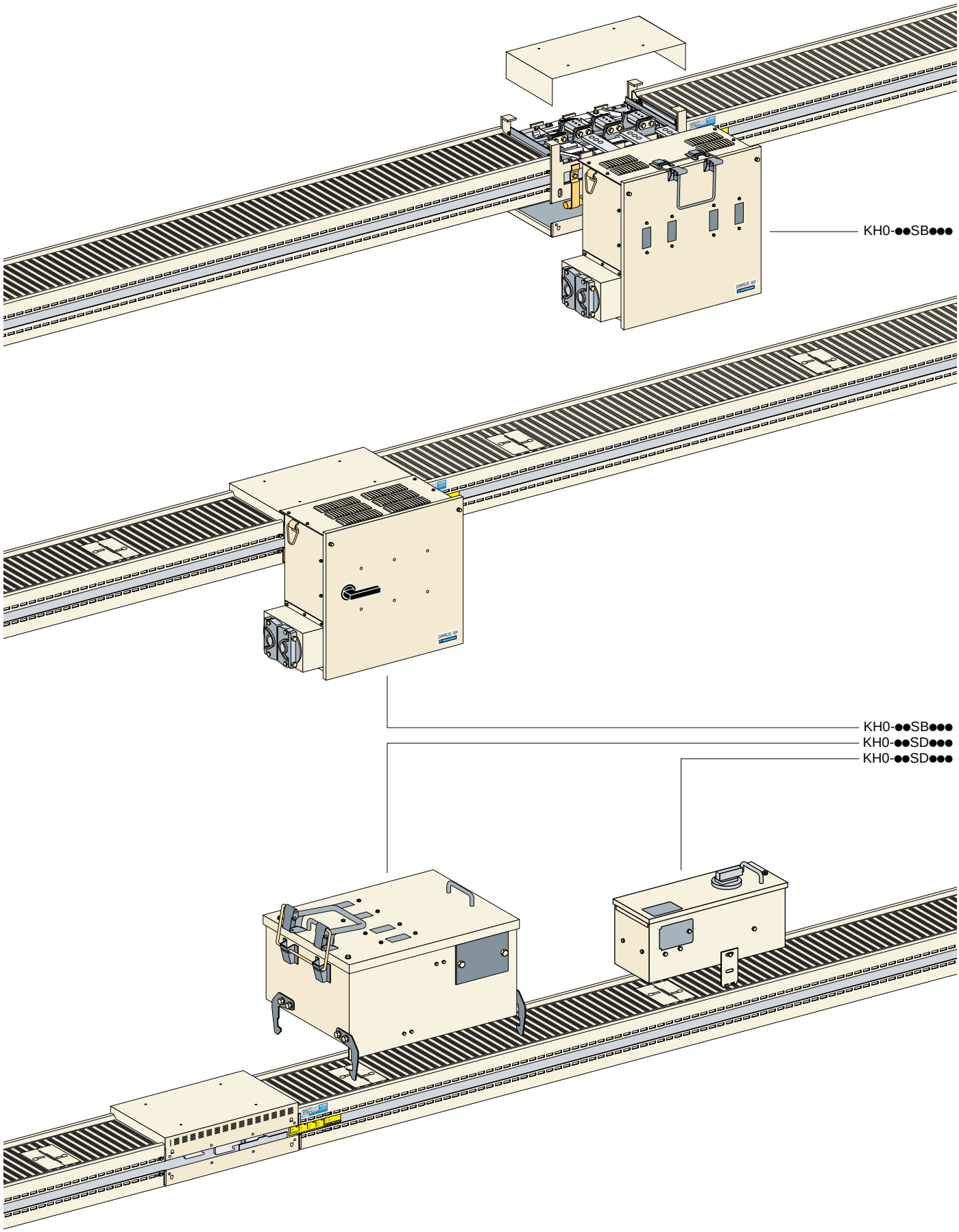
Type	Use	Unit reference	Weight kg
Bracket	For all lengths (1000 to 4500 A)	**KH0-00ZA5**	0.208

Flexible protection cover



KH0-CS●●

Busbar trunking rating	Type of unit				
	KH0-●6AA●1 KH0-●6AB●1	KH0-●6AA●2 KH0-●6AB●2	KH0-●6AC	KH0-●6AD●1	KH0-●6AD●2
A	Reference	Reference	Reference	Reference	Reference
1000, 1200, 1450	**KH0-CS01**	**KH0-CS02**	**KH0-CS11**	**KH0-CS12**	**KH0-CS13**
2200, 2500	**KH0-CS03**	**KH0-CS04**	**KH0-CS11**	**KH0-CS12**	**KH0-CS13**
3000, 3400	**KH0-CS05**	**KH0-CS06**	**KH0-CS12**	–	–
4000, 4500	**KH0-CS07**	**KH0-CS08**	**KH0-CS12**	–	–

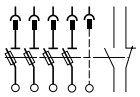

KH0-●●SB●●●
KH0-●●SB●●●
KH0-●●SD●●●
KH0-●●SD●●●

Description : pages 8 to 11
Selection guide : page 12
Characteristics : page 13
Dimensions : pages 68 to 71

Canalis KHF (1000 to 4500 A)
Tap-off units with isolator and fuse carriers

References

Tap-off units

Number of conductors			3L + N + PE	3L + Np(1) + PE	3L + PEN	3L + PE
Diagram (2)	Trunking		TT TNS	IT TT TNS	TNC TNC	IT TT TNS
	Tap-off		TT TNS	IT TT TNS	TNC TNS	IT TT TNS
Tap-off connection diagram						
Rating	Fuse size	Cable capacity	Cable clamp on diameter	Reference (3) Weight	Reference (4) (5) Weight	Reference (3) Weight	Reference Weight
A		**mm²**	**mm**	kg	kg	kg	kg
Removable tap-off units mounted between trunking joints (type SD)							
160	0	1 x 70	1 x 25-40	**KH0-16SD14** 12.500	**KH0-16SD24** 12.500	**KH0-16SD15** 12.500	**KH0-16SD13** 12.000
250	1	1 x 95	1 x 30-70	**KH0-25SD14** 37.000	**KH0-25SD24** 37.000	**KH0-25SD15** 37.000	**KH0-25SD13** 36.000
400	2	1 x 185	1 x 30-70	**KH0-40SD14** 39.000	**KH0-40SD24** 39.000	**KH0-40SD15** 39.000	**KH0-40SD13** 38.000
630	3	2 x 185	2 x 30-70	**KH0-63SD14** 46.000	**KH0-63SD24** 46.000	**KH0-63SD15** 46.000	**KH0-63SD13** 45.000
Bolt-on tap-off units on trunking joints (type SB) (6)							
160	0	1 x 70	1 x 25-40	**KH0-16SB14●** 47.000	**KH0-16SB24●** 47.000	**KH0-16SB15●** 49.000	**KH0-16SB13●** 45.000
250	1	1 x 150	1 x 30-70	**KH0-25SB14●** 48.000	**KH0-25SB24●** 48.000	**KH0-25SB15●** 50.000	**KH0-25SB13●** 46.000
400	2	2 x 300	2 x 30-70	**KH0-40SB14●** 66.000	**KH0-40SB24●** 66.000	**KH0-40SB15●** 68.000	**KH0-40SB13●** 64.000
630	3	2 x 300	2 x 30-70	**KH0-63SB14●** 75.000	**KH0-63SB24●** 75.000	**KH0-63SB15●** 75.000	**KH0-63SB13●** 71.000
1000	4	–	–	**KH0-86SB14●** 90.000	–	**KH0-86SB15●** 88.000	**KH0-86SB13●** 86.000

Connecting equipment for type SB tap-off units (7)

This equipment should be ordered at the same time as the SB tap-off unit.

For tap-off units	Reference
SB (except 1000 A)	**KH0-●●CB**
SB 1000 A only	**KH0-●●CB311571**

(1) Np : Protected switched neutral.
(2) Conforming to IEC 364-3-1/section 3 and UTE NF C 15-100.
(3) If the cross-section of N or PEN is greater than or equal to the cross-section of the phases. If not, apply article 473-3-1 of standard NF C 15-100.
(4) If the cross-section N is less than the cross-section of the phases.
(5) To be used with an automatic switching device connected in the incoming or outgoing circuit of the tap-off unit.
(6) Complete the reference with :
1, if the tap-off unit is mounted on the identification label side.
2, if the tap-off unit is mounted on the opposite side to the label.
(7) Replace the bullet-points with the numbers in the same position in the busbar trunking reference.

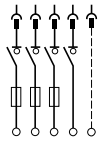
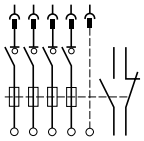
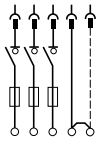
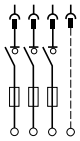
High power busbar trunking

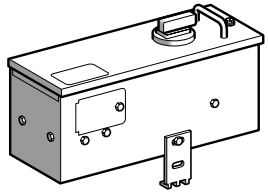
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10073/2 to 10073/5

Canalis KHF (1000 to 4500 A)
Tap-off units with switch and fuse carriers

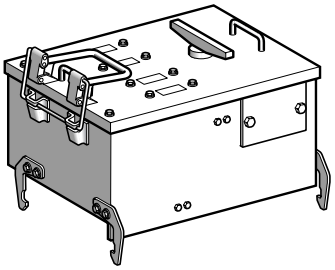
References

Tap-off units

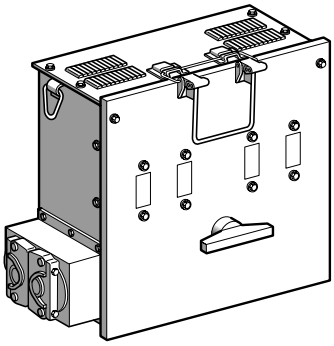
Number of conductors			3L + N + PE	3L + Np(1) + PE	3L + PEN	3L + PE
Diagram (2)	Trunking		TT TNS	IT TT TNS	TNC TNC	IT TT TNS
	Tap-off		TT TNS	IT TT TNS	TNC TNS	IT TT TNS
Tap-off connection diagram						
Rating	Fuse size	Cable capacity	Cable clamp diameter	Reference (3) Weight	Reference (4) (5) Weight	Reference (3) Weight	Reference Weight
A		**mm²**	**mm**	kg	kg	kg	kg
Removable tap-off units mounted between trunking joints (type SD)							
50	14 x 51	1 x 10	1 x 16-30	**KH0-05SD34** 8.000	–	**KH0-05SD35** 8.000	**KH0-05SD34** 7.500
125	22 x 58	1 x 35	1 x 25-40	**KH0-10SD34** 15.000	–	**KH0-10SD35** 15.000	**KH0-10SD34** 14.500
200	1	1 x 95	1 x 30-70	**KH0-20SD34** 41.000	**KH0-20SD44** 41.000	**KH0-20SD35** 41.000	**KH0-20SD33** 39.500
315	2	2 x 185	1 x 30-70	**KH0-31SD34** 48.000	**KH0-31SD44** 48.000	**KH0-31SD35** 48.000	**KH0-31SD33** 46.000
500	3	2 x 185	2 x 30-70	**KH0-50SD34** 58.000	**KH0-50SD44** 58.000	**KH0-50SD35** 58.0000	**KH0-50SD33** 55.000
Bolt-on tap-off units on trunking joints (type SB) (6)							
250	1	1 x 150	1 x 30-70	**KH0-25SB34●** 52.000	**KH0-25SB44●** 52.500	**KH0-25SB35●** 54.500	**KH0-25SB33●** 50.000
400	2	2 x 300	2 x 30-70	**KH0-40SB34●** 78.000	**KH0-40SB44●** 78.000	**KH0-40SB35●** 80.000	**KH0-40SB33●** 74.000
630	3	2 x 300	2 x 30-70	**KH0-63SB34●** 88.000	**KH0-63SB44●** 88.000	**KH0-63SB35●** 90.000	**KH0-63SB33●** 84.000
1000	4	4 x 185	–	**KH0-86SB34●** 140.000	–	**KH0-86SB35●** 131.000	**KH0-86SB33●** 131.000



KH0-●●SD●●



KH0-●●SD●●



KH0-●●SB●●

Connecting equipment for type SB tap-off units (7)

This equipment should be ordered at the same time as the SB tap-off unit. For tap-off units	Reference
SB	**KH0-●●CB**

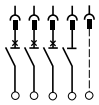
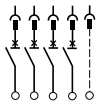
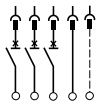
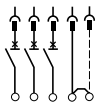
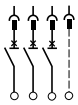
(1) Np : Protected switched neutral.
(2) Conforming to IEC 364-3-1/section 3 and UTE NF C 15-100.
(3) If the cross-section of N or PEN is greater than or equal to the cross-section of the phases. If not, apply article 473-3-1 of standard NF C 15-100.
(4) If the cross-section N is less than the cross-section of the phases.
(5) To be used with an automatic switching device connected in the incoming or outgoing circuit of the tap-off unit.
(6) Complete the reference with **1,** if the tap-off unit is mounted on the identification label side, with **2,** if the tap-off unit is mounted on the opposite side to the label.
(7) Replace the bullet-points with the numbers in the same position in the busbar trunking reference.

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
Dimensions :
pages 10073/2 to 10073/5

Canalis KHF (1000 to 4500 A)
Tap-off units for Merlin Gerin fixed circuit-breaker with front connection

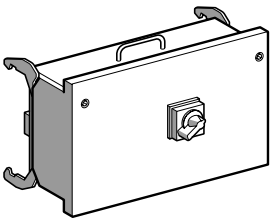
References

Tap-off units

Number of conductors (1)		3L + Nc + PE	3L + Np + PE	3L + Nd + PE	3L + PEN	3L + PE
Diagram (1)	Trunking	TT TNS	IT TT TNS	IT TT TNS	TNC TNC	TT TNS
	Tap-off	TT TNS	IT TT TNS	IT TT TNS	TNC TNS	TT TNS
						

Removable tap-off units with MCC type rotary handle (not supplied) Ref. 29337 + 29341

Rating A	Type of circuit-breaker	Reference Weight (kg)	Reference (2) Weight (kg)
160	NS 100 N, H or L NS 160 N, H or L	**KH0-16SD541**	**KH0-16SD551**



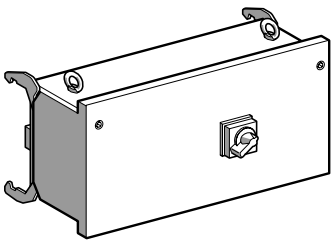
KH0-16SD5●1

Removable tap-off units with extended rotary handle (not supplied)

250	NS 250 N, H or L handle axis L.60 29338	**KH0-25SD541**	**KH0-25SD551**
400	NS 400 N, H or L handle axis L.107 32598	**KH0-40SD541**	**KH0-40SD551**
630	NS 630 N, H or L handle axis L.107 32598	**KH0-63SD541**	**KH0-63SD551**

Electrically operated removable tap-off units 220 V - 50 Hz (not supplied) (3)

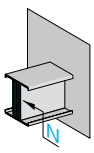
160	NS 100 N, H or L NS 160 N, H or L handle 29434	**KH0-16SD542**	**KH0-16SD552**
250	NS 250 N, H or L handle 31541	**KH0-25SD542**	**KH0-25SD552**
400	NS 400 N, H or L handle 32641	**KH0-40SD542**	**KH0-40SD552**
630	NS 630 N, H or L handle 32841	**KH0-63SD542**	**KH0-63SD552**



KH0-●●SD5●●

KH-KV connection components

Number of conductors	Rating A	Tap-off unit KH	Reference	Weight kg
3L + N + PE	250	SB 400	**KV0-25ER41002**	
		SD 400	**KV0-25ER41003**	
	630	SB 1000	**KV0-63ER41002**	
	800	SB 1000	**KV0-80ER41002**	



KV0-●●ER4100●

(1) Tap-off connection diagram :
Nc = Switched neutral,
Nd = Direct neutral,
Np = Neutral switched protected.
(2) These tap-off units are supplied in 3L + PEN versions. The N/PE link is removed for 3L + Nd + PE and 3L + PE.
(3) Other voltages : see Merlin Gerin catalogue.

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

Canalis KHF (1000 to 4500 A)
Options : general, protective conductor, flat elbows

Presentation

General

Equipment can be ordered with one or more of the options listed below.
To order, add the letter A to the reference of the corresponding equipment, followed by the names of the options. Then, on the second line of the order, state the dimensions. On the following lines, give specific details of the option and any relevant information, using one line per option.

Example : **KHF-26 LC1XA7**
X = 750 x 980
7 = A + 400 = 1150

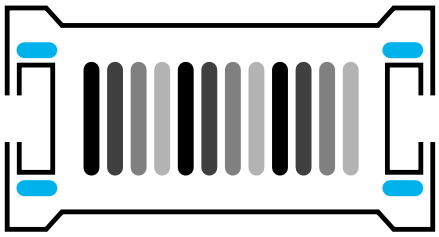
List of options

Object	Options	Pages
Protective conductor	2 - 3	10058/2
Flat elbows (> 90° angle)	W	10058/2
Fire barriers	7	10058/3 and 10058/4
Rating change	M - N	10058/5
Special joints	C - L - S - T	10058/5 and 10058/6

Protective conductor

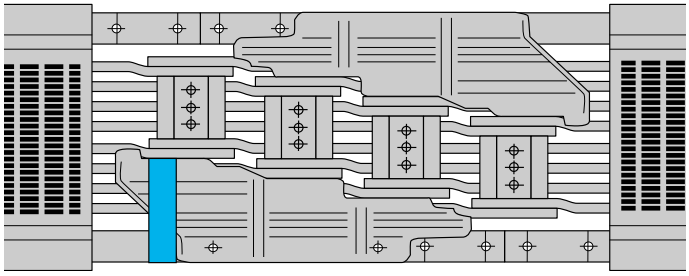
The protective conductor for lengths KGF and KHF is provided by the casing. Its characteristics are as follows : Resistance : 0.175 mΩ/m to 20 °C
Equivalent copper cross-section : 105 mm²
Equivalent aluminium cross-section : 172 mm²
We supply trunking lengths with a protective conductor with a cross-section which is increased by the addition of copper bars.

Option 2 - Additional copper earth 120 mm²



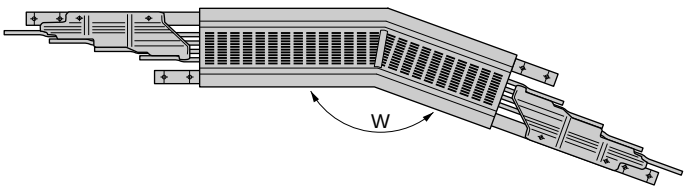
The cross-section of the protective conductor is increased by 120 mm² by adding four copper bars with a 20 x 1.5 cross-section.

Option 3 - PE-Neutral link for TNC network



In the TNC layout the busbar trunking neutral is used as a PEN conductor. Its cross-section can be the same as or half that of the phases.
The metallic earth of the casing must be linked to the PEN conductor at each joint using a connection supplied with option 3.
This connection can be supplied separately under the reference **KH0-00PEN**.

Flat elbows with > 90° angle



Option W

To follow the required line, parts with special angles of between 91 and 179° can be produced.
Example :
KHF26LB1XAW
X = 650 x 700
W = 145°

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

Canalis KHF (1000 to 4500 A)
Options : Fire barrier

Presentation

Option 7 : “Vermiculite” fire barrier

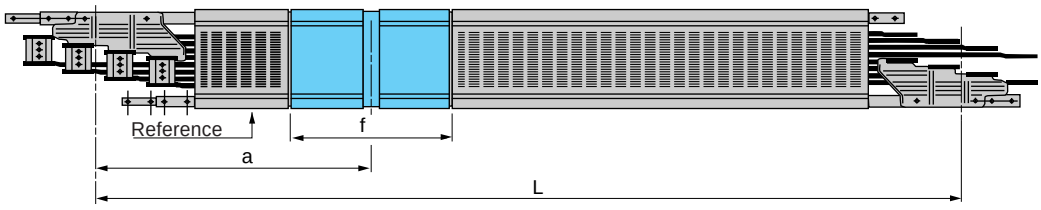
Type EA straight lengths, flat and edgewise elbows, flat and edgewise zed units can be fitted with a 2-hour rating “Vermiculite” fire barrier, 420 mm in length.
Conforming to report CSTB N° 759389C, in compliance with current French standards : NFC 14-100, NF C 12-060.
Conforming to Ghent university laboratory test N° 7296, in compliance with standard ISO 834.

Fire barrier on type EA straight length

The location of the fire barrier must be defined in relation to the joint axis on the reference side (distance a).

Type of fire barrier	Length of fire barrier (f)	Distance a minimum	Nominal length of the EA length (L) minimum	maximum
	mm	**mm**	**mm**	**mm**
Vermiculite	420	550	1100	3000

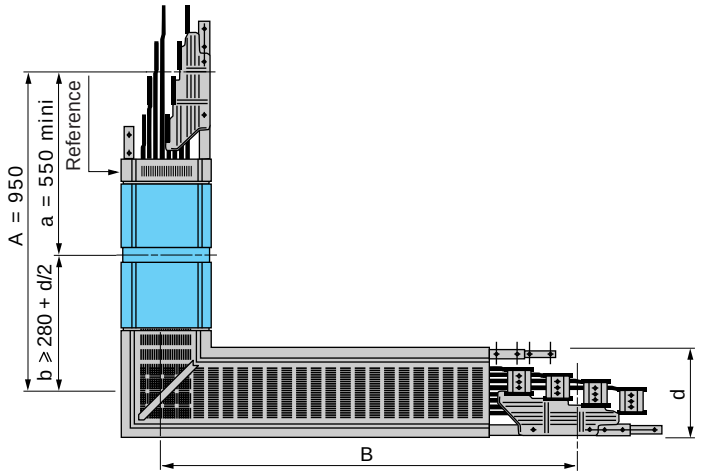
Example : Straight length **KHF-26**, 3L + N + PE, length 2320 with vermiculite fire barrier, 1500 mm from reference side joint axis **KHF-26EA2CA7**
L = 2320
7 = a/1500



Fire barrier on elbow

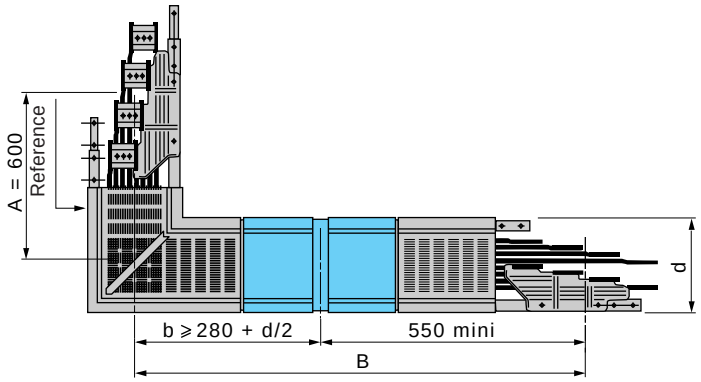
The location of the fire barrier must be defined in relation to the limb on which it is mounted, whether on limb A (reference end limb), or limb B (end limb opposite reference).

Fire barrier on limb A



See the straight length example above.
The distances to be respected are identical.
However, the fire barrier axis must be located at least 280 mm + a half width of busbar trunking from the axis of limb B, both on flat elbows and edge-wise elbows.
Example : Elbow **KHF-26** 3L + 1/2N + PE with limb A of 950, limb B of 600 and distance a = 550
“Vermiculite” fire barrier
KHF-26LC1XA7
X = 950 x 600
7 = 550

Fire barrier on limb B



In this case, the location of the fire barrier is defined in relation to the axis of limb A.
However, the axis of the fire barrier must be located at least 280 mm + a half width of busbar trunking from the axis of limb B, both on flat elbows and edgewise elbows.
Example :
Elbow KHF-26 3L + 1/2N + PE with limb A of 600, limb B of 950 and distance B = 400
“Vermiculite” fire barrier
KHF-26LC1XA7
X = 600 x 950
7 = A + 400 = 1000

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

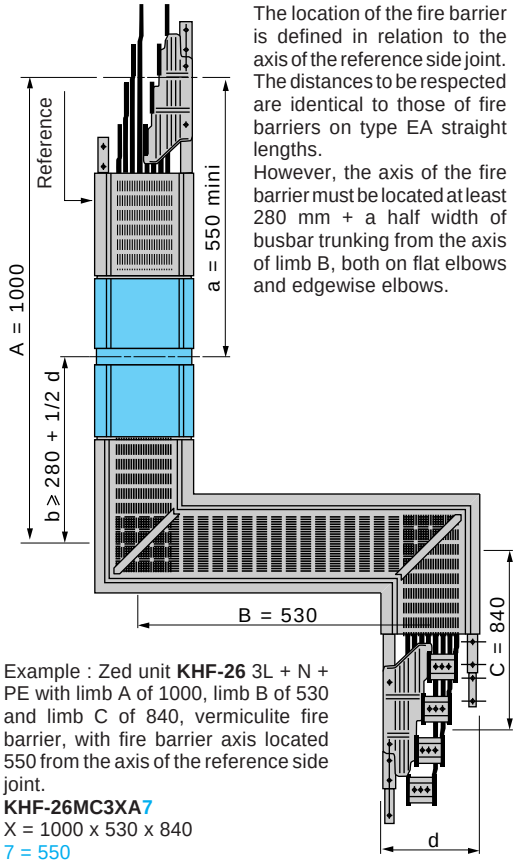
Canalis KHF (1000 to 4500 A)
Options : Fire barrier

Presentation

Fire barrier on zed units (edgwise or flatwise)

The location of the fire barrier is defined in relation to the limb on which it is mounted :
Limb A : reference end limb
Limb B : intermediate limb
Limb C : end limb opposite the reference

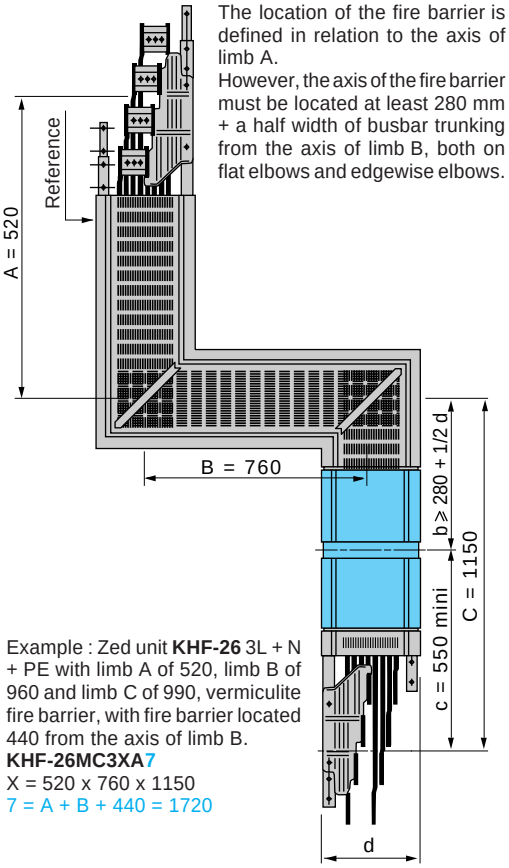
Fire barrier on limb A



The location of the fire barrier is defined in relation to the axis of the reference side joint. The distances to be respected are identical to those of fire barriers on type EA straight lengths.
However, the axis of the fire barrier must be located at least 280 mm + a half width of busbar trunking from the axis of limb B, both on flat elbows and edgewise elbows.

Example : Zed unit **KHF-26** 3L + N + PE with limb A of 1000, limb B of 530 and limb C of 840, vermiculite fire barrier, with fire barrier axis located 550 from the axis of the reference side joint.
KHF-26MC3XA7
X = 1000 x 530 x 840
7 = 550

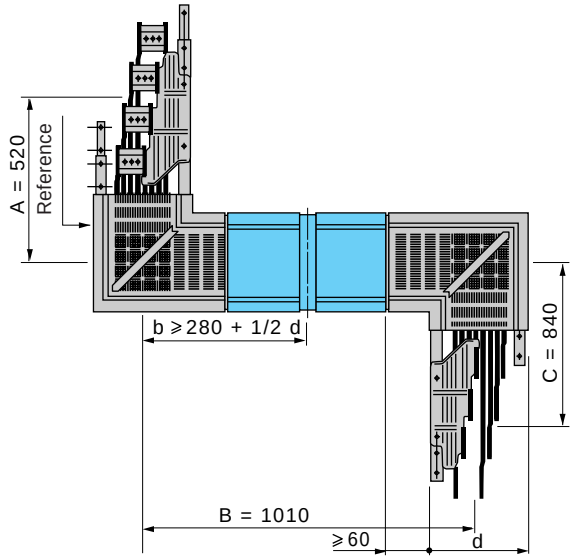
Fire barrier on limb C



The location of the fire barrier is defined in relation to the axis of limb A.
However, the axis of the fire barrier must be located at least 280 mm + a half width of busbar trunking from the axis of limb B, both on flat elbows and edgewise elbows.

Example : Zed unit **KHF-26** 3L + N + PE with limb A of 520, limb B of 960 and limb C of 990, vermiculite fire barrier, with fire barrier located 440 from the axis of limb B.
KHF-26MC3XA7
X = 520 x 760 x 1150
7 = A + B + 440 = 1720

Fire barrier on limb B



The location of the fire barrier is defined in relation to the joint axis of limb A.
However, the axis of the fire barrier must be located at least 280 mm + a half width of busbar trunking from the axis of limb B both on flat elbows and edgewise elbows.

Example :
Zed unit **KHF-26** 3L + N + PE with limb A of 520, limb B of 1010 and limb C of 840, vermiculite fire barrier, with fire barrier axis located 520 from the axis of limb A.
KHF-26MC3XA7
X = 520 x 1010 x 840
7 = A + 520 = 1040

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

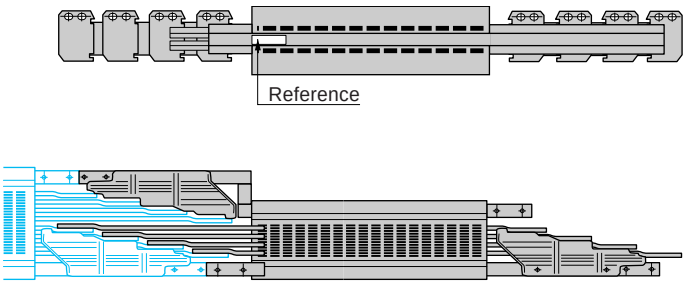
Canalis KHF (1000 to 4500 A)
Options : Rating change

Presentation

Rating change

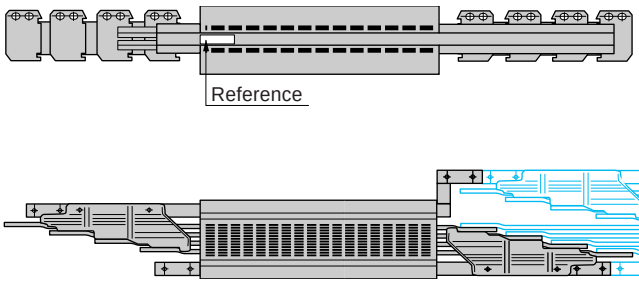
The rating can be reduced along the line. When the number of bars per phase is identical for both ratings, the lengths are compatible. When the number of bars per phase is different, a transitional length must be used.
All busbar lengths (straight lengths, elbows or zed units) can take the rating change option. The lower rated length is referenced and the option added to it.
The reduction always takes place on the side opposite the reference.

Option M - Reduction on the reference end



Example : the **KHF-26** rating on the reference end is reduced to **KHF-16** on a 3 m straight length 3L + N + PE.
KHF-16EA13AM
M = KHF-26

Option N - Reduction on the end opposite the reference



Example : the **KHF-26** rating on the end opposite the reference is reduced to **KHF-16** on a 3 m straight length 3L + N + PE.
KHF-16EA13AN
N = KHF-26

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

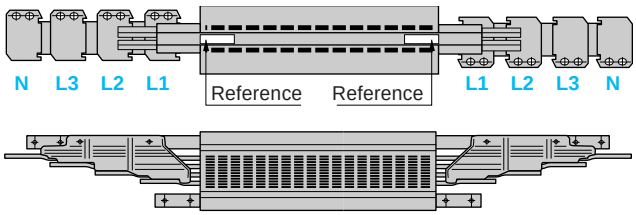
Canalis KHF (1000 to 4500 A)
Options : Special joints

Presentation

Inversion of fishplates with change of phase sequence

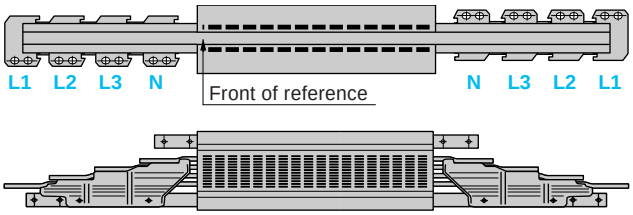
It is sometimes necessary to invert the direction of the fishplates for ease of mounting. For example, if part of a trunking run is located very close to the ceiling, with the fishplates underneath. On another part of the run the SB units are mounted with the fishplates uppermost.
In order to achieve this inversion, there are two types of length (straight or elbow) :
- lengths with short-short reference side,
- lengths with long-long reference side.

Option C - Length with short-short reference side



Example :
Straight length, aluminium conductor, 1200 A rating, standard length, type short-short.
KHF-16EA13AC
The length has two reference labels on the reference side and the fishplates are naturally inverted.

Option L - Length with reference side long-long



Example :
Straight length, aluminium conductor, 1200 A rating, standard length, type long-long.
KHF-16EA13AL
The length has no reference label on the reference side and the fishplates are naturally inverted.

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
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page 10042/2
Characteristics :
page 10042/3

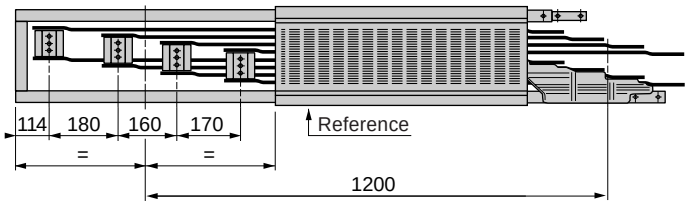
Canalis KHF (1000 to 4500 A)
Options : Special joints

Presentation

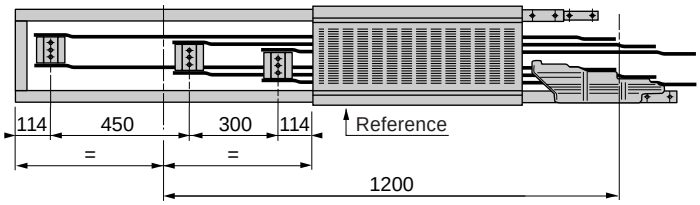
Joints with special distances and special phase sequence

To facilitate certain direct connections, for example to a transformer or panel, the joint distance can be modified, with a minimum distance of 160 mm.
It is necessary to indicate the phase sequence and fishplate axis dimensions from the centre of the length to the outside.
Options S and T can be used simultaneously on the same length.

Option S - Special distance on reference end side

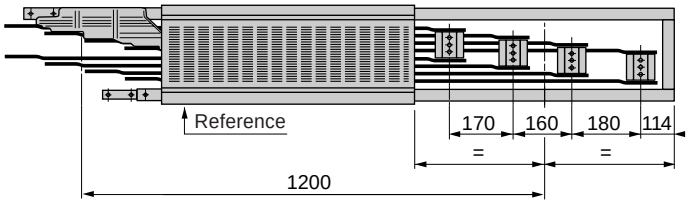


Example : a straight feeder length with aluminium conductor, 2200 A rating, 1.2 m long, 3L + N + PE
KHF-26EA2AAS
L = 1200
S = 1 2 3 N, 170 - 160 - 180

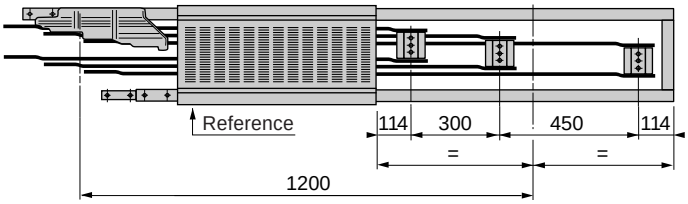


Example : a straight feeder length with aluminium conductor, 2200 A rating, 1.2 m long, 3L + PE
KHF-26EA0AAS
L = 1200
S = 1 2 3, 350 - 450

Option T - Special distance on side opposite reference end



Example : a straight feeder length with aluminium conductor, 2200 A rating, 1.2 m long, 3L + N + PE
KHF-26EA2AAT
L = 1200
T =N 3 2 1, 170 - 160 - 180



Example : a straight feeder length with aluminium conductor, 2200 A rating, 1.2 m long, 3L + PE
KHF-26EA0AAT
L = 1200
T = 3 2 1, 300 - 450

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
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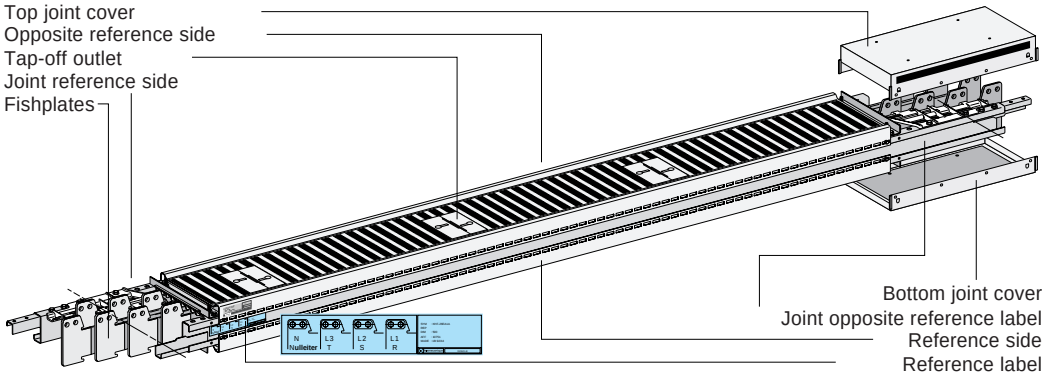
page 10042/3

Canalis KHF (1000 to 4500 A)

Procedure for ordering a made to measure equipment

Terms used



Definition of a length

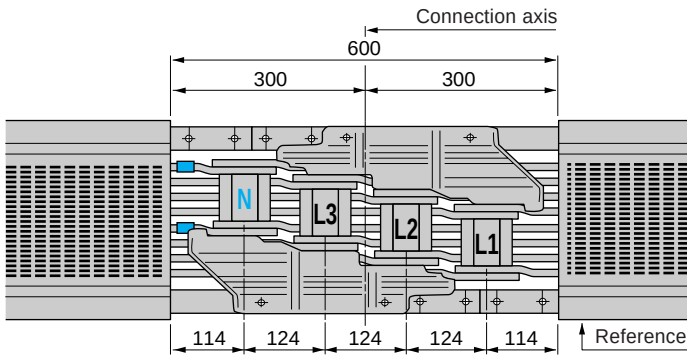
Shape
Each simple shape is distinguished by a group of two letters.
The shape of a length is always defined in the reference label.
Dimensions
Dimensions are always given starting from the trunking joint on the reference label side and in the order of the limbs along the busbar trunking length.

How to order

The order must be set out on two lines :
- **First line**
  Write down the complete reference from this catalogue.
- **Second line**
  Write down the dimensions for the made to measure equipment, and options selected, if any :

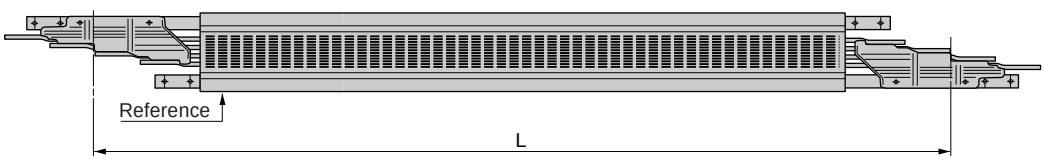
- when the reference ends with “X”, there are one or more variable values. Write down X = A x B x… from the reference and in the order of limbs.
- when the reference ends with A,B,C…, 1, 2, 3…, it is an option. This should be filled in with a variable value. Write down X = 650 x 700, W = 145° (example of an elbow which has a special angle of 145° with limbs of 650 mm - on reference label side and 700 mm - next limb, see page 10058/2)

Straight lengths



The nominal length “L” of a straight length is measured from connection axis to connection axis, in mm. (The connection axis is located between phases L2 and L3).

Example :
A straight length KHF, rating 2500 A, 3L + 1/2 N + PE, length 1820 mm, has the following reference
KHF-28EA1B
L = 1820



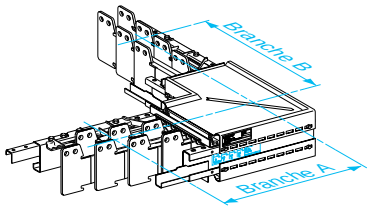
High power busbar trunking

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

Canalis KHF (1000 to 4500 A)

Procedure for ordering made to measure equipment

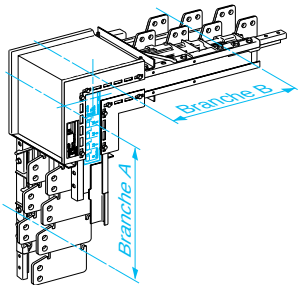
Flat elbows



The nominal length of each limb is measured from the connection axis to the axis of the other limb, in mm.

Example :
A flat elbow KHF, rating 2000 A, 3L + N + PE, type LC, length of limb A = 450 mm, limb B = 850 mm, will have the following reference :
KHF-26LC2X
X = 450 x 850

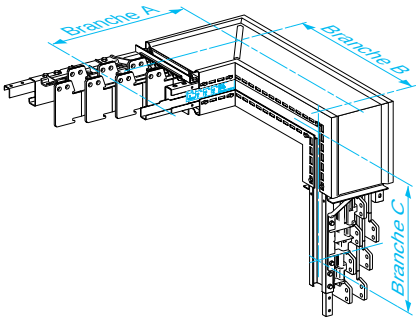
Edgewise elbows



The nominal length of each limb is measured from the connection axis to the axis of the other limb, in mm.

Example :
An edgewise elbow KHF, rating 2500 A, 3L + 1/2 N + PE, type LE, length of limb A = 600 mm, limb B = 500 mm, will have the following reference :
KHF-28LE2X
X = 600 x 500

Zed units

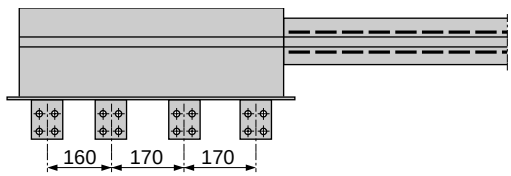


The nominal length of each limb is measured from the connection axis to the axis of the other limb, in mm.
The nominal length of the intermediate limb(s) is measured from limb axis to limb axis.

Example :
An edgewise-flat zed unit KHF, rating 2500 A, 3L + 1/2 N + PE, type NB, length of limb A = 536 mm, limb B = 300 mm, limb C = 500 mm, will have the following reference :
KHF-28NB1X
X = 536 x 300 x 500

End feed units

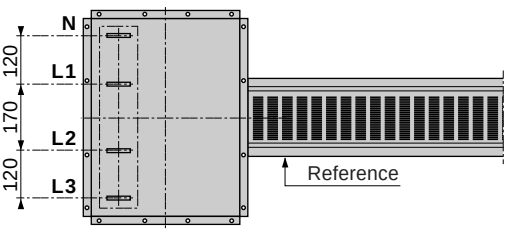
Units type AA, AB



The phase sequence is that of the busbar trunking.

If necessary, indicate, on the second line of the order, the distance between the outputs starting from the side connected to the busbar trunking.

Unit type AK



If necessary, indicate, on the second line of the order, the distance between outputs, followed by the phase sequence, starting from the busbar trunking reference label side.

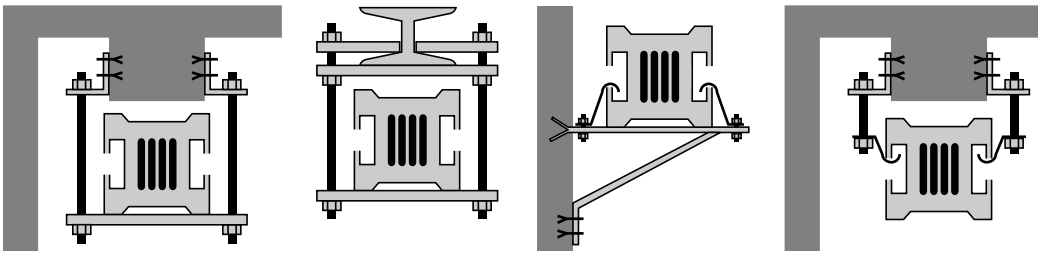
For a special distance between output bars, make this clear on the order form.

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

Canalis KHF (1000 to 4500 A)
Horizontal runs. Installation assistance

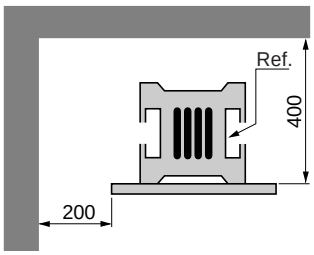
Mounting

Methods of installation

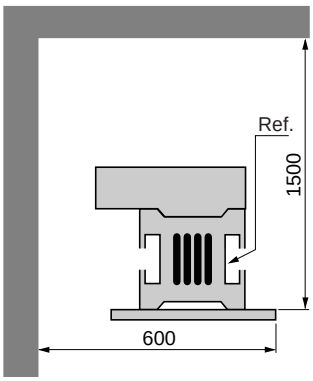


Positioning of the trunking in relation to the building

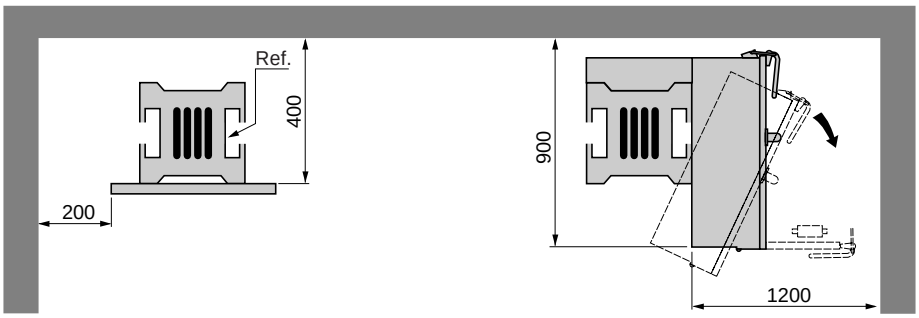
Without tap-off unit



With SD tap-off unit

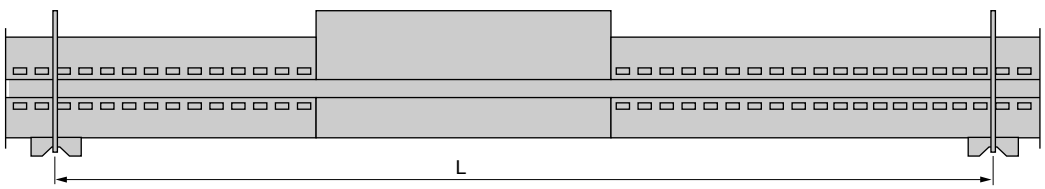


With SB tap-off unit



Mounting distance

The calculation of these values includes not only the weight of the trunking itself, but also that of the tap-off units which can be connected to it.



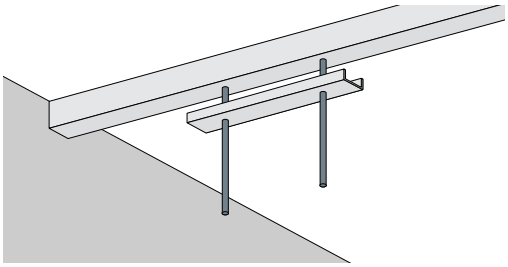
Rating **A**	Distance L **m**
1000, 1200, 1450	5
2200, 2500	4.5
3000, 3400	4
4000, 4500	3.5

Presentation :
pages 10040/2 and 10040/3
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3

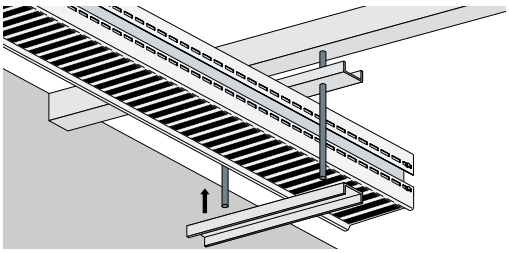
Canalis KHF (1000 to 4500 A)
Installation assistance

Mounting

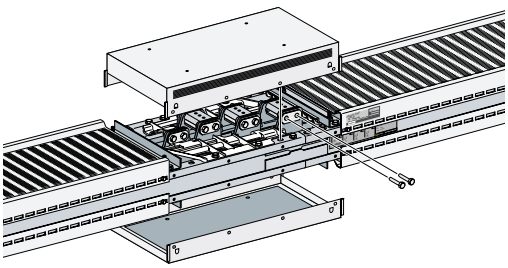
Installation procedures



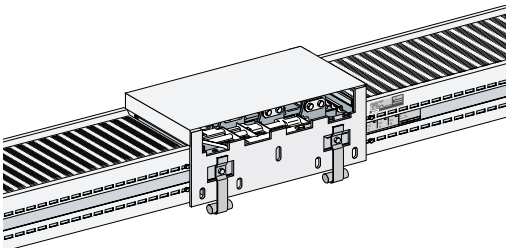
Fixing
Mounting of support brackets



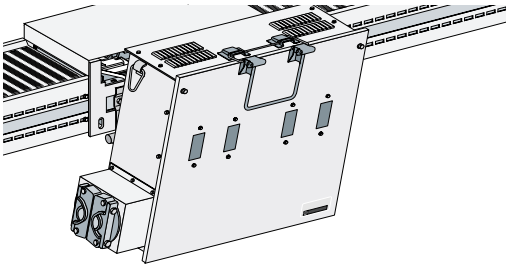
Lifting and positioning busbar trunking lengths on their fixing devices
- Feed unit on the first length
- End cover on the last length



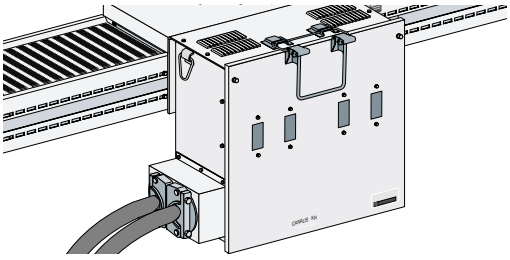
Jointing
Mechanical and electrical jointing of busbar trunking lengths.



Positioning jointing units on the joints which receive tap-off units



Lifting, attaching and mounting tap-off units



Connecting
- Feed units
- Tap-off units
- Powering-up

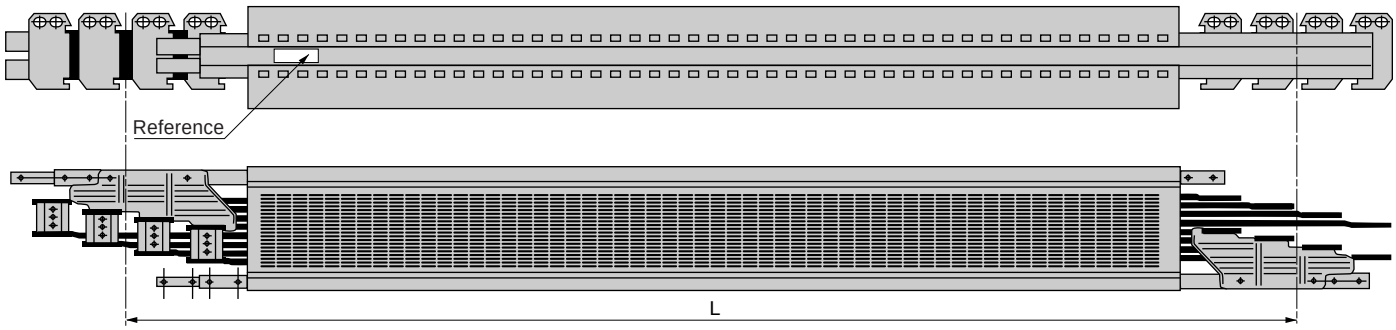
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10043/3 to 10043/7

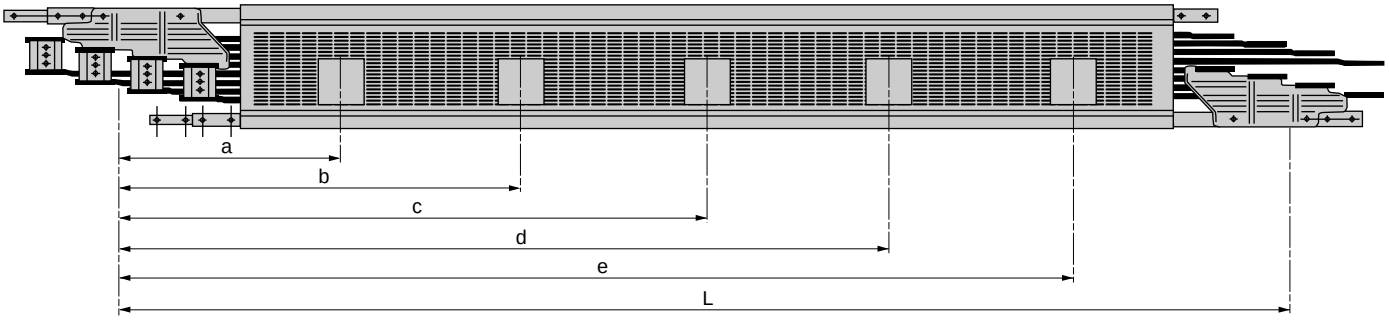
Canalis KHF (1000 to 4500 A)
Run components (1000 to 4500 A)

Dimensions

Straight lengths KHF-●●EA●●
Viewed from below

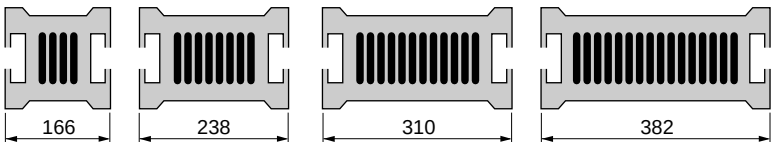


Straight lengths KHF-●●ED●●



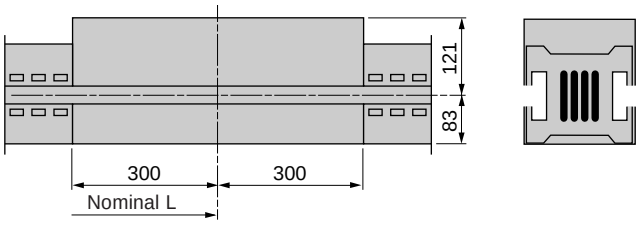
Busbar trunking section according to the rating

1000, 1250, 1450 A	2200, 2500 A	3000, 3400 A	4000, 4500 A

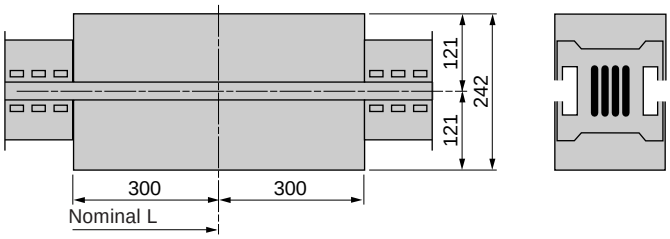


Nominal length	Position of outlets for tap-off units				
L	a	b	c	d	e
3000	450	1230	2010	–	–
5000	450	1230	2010	2980	3950

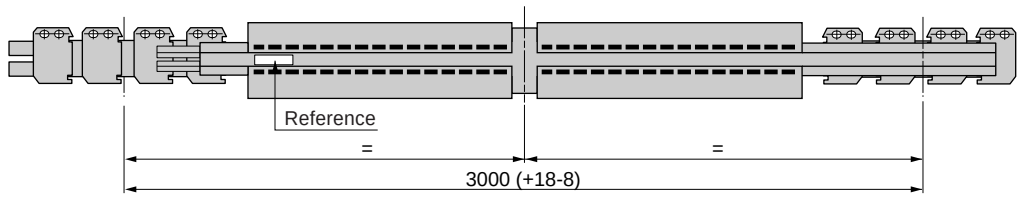
Joint cover
All ratings except 1450 A

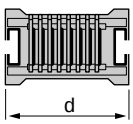


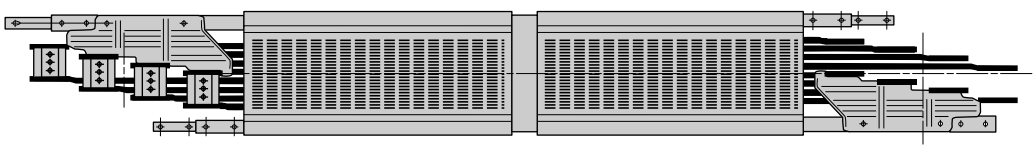
1450 A rating only (joint with double fishplates)



Building expansion unit KHF-●●DB●3







Rating	
A	d
1000, 1200, 1450	166
2200, 2500	238
3000, 3400	310
4000, 4500	382

High power busbar trunking

Description :
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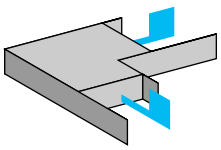
page 10042/2
Characteristics :
page 10042/3
References :
pages 10043/3 to 10043/7

Canalis KHF (1000 to 4500 A)
Flat and edgewise elbows (1200 to 4500 A)

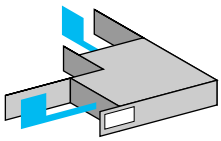
Dimensions

Flat elbows

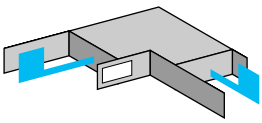
Type LB



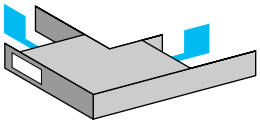
Type LC



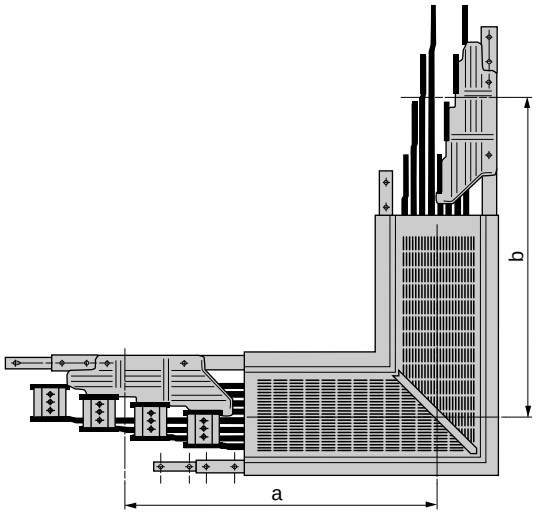
Type LB



Type LC

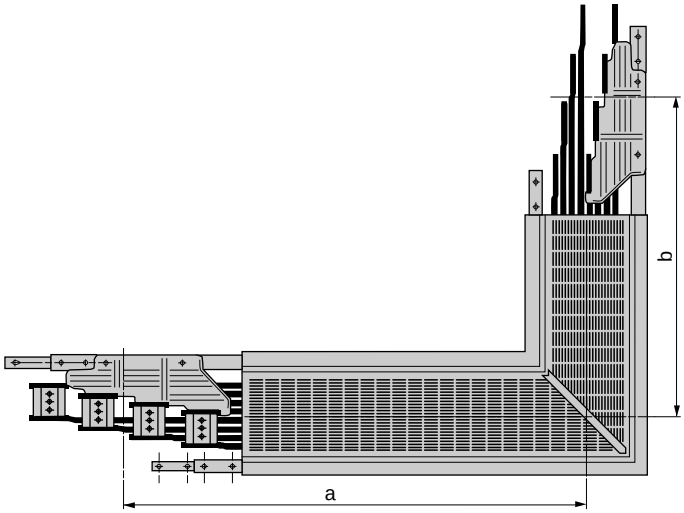


KHF-●●LB●1, KHF-●●LC●1



Rating		
A	a	b
1000, 1200, 1450	500	500
2200, 2500	536	536
3000, 3400	572	572
4000, 4500	608	608

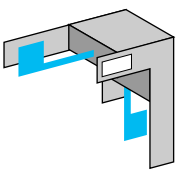
KHF-●●LB●X, KHF-●●LC●X



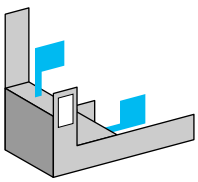
Rating		
A	a	b
1000, 1200, 1450	410…999	410…999
2200, 2500	446…1035	446…1035
3000, 3400	482…1071	482…1071
4000, 4500	518…1107	518…1107

Edgewise elbows

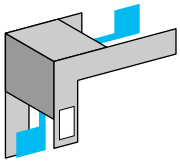
Type LE



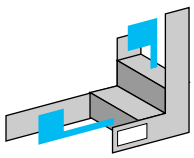
Type LF



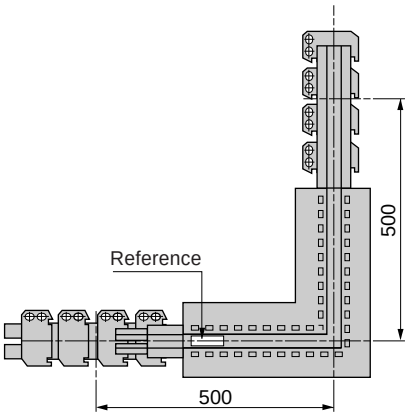
Type LE



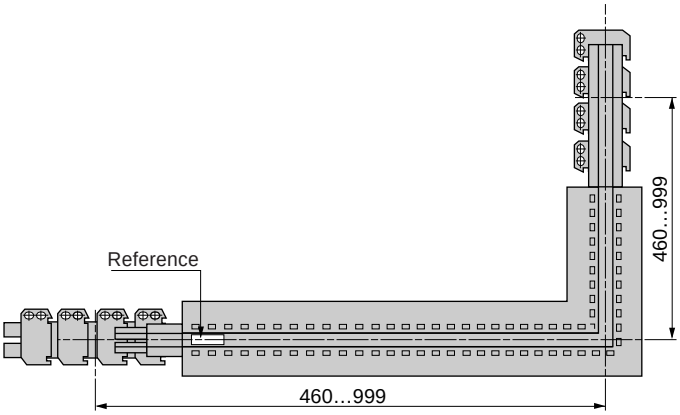
Type LF



KHF-●●LE●1, KHF-●●LF●1



KHF-●●LE●X, KHF-●●LF●X



High power busbar trunking

Description :
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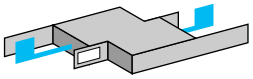
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10044/3 to 10044/11

Canalis KHF (1000 to 4500 A)
Edgewise/flat zed units (1200 to 4500 A)

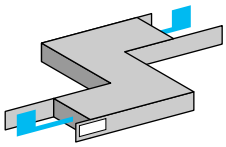
Dimensions

Flat zed units

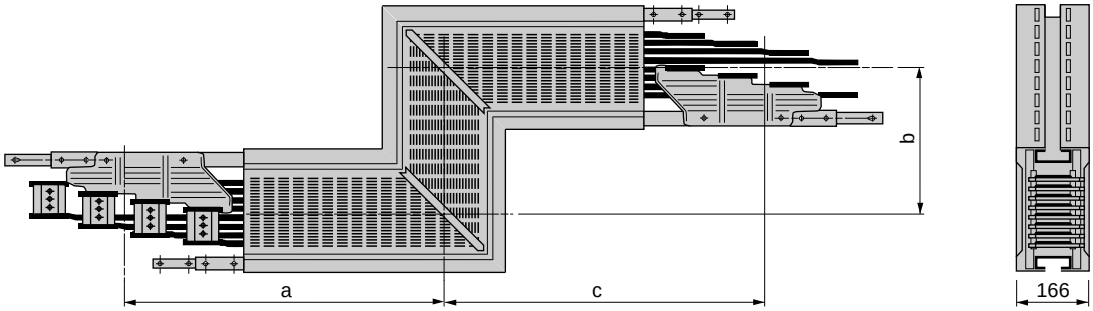
Type MB



Type MC



KHF-●●MB●X, KHF-●●MC●X



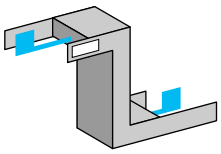
Flat zed units, made to measure

Rating

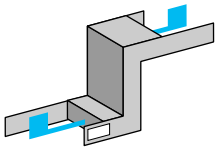
A	a	b	c
1000, 1200, 1450	410…999	200…999	410…999
2200, 2500	446…1035	272…1071	446…1035
3000, 3400	482…1071	344…1143	482…1071
4000, 4500	518…1107	416…1215	518…1107

Edgewise zed units

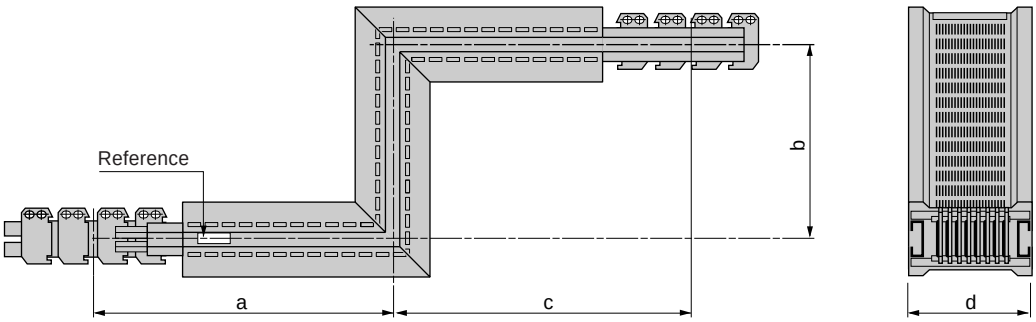
Type ME



Type MF



KHF-●●ME●X, KHF-●●MF●X



Edgewise zed units, made to measure

Rating

A	a	b	c	d
1000, 1200, 1450	460…999	100…999	460…999	166
2200, 2500	460…999	100…999	460…999	238
3000, 3400	460…999	100…999	460…999	310
4000, 4500	460…999	100…999	460…999	382

High power busbar trunking

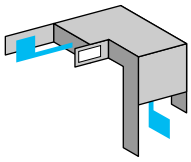
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10044/3 to 10044/11

Canalis KHF (1000 to 4500 A)
Edgewise/flat zed units (1200 to 4500 A)

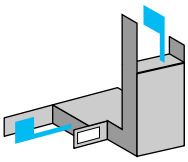
Dimensions

Edgewise/flat zed units

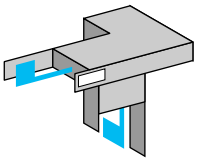
Type NB



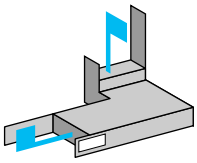
Type NC



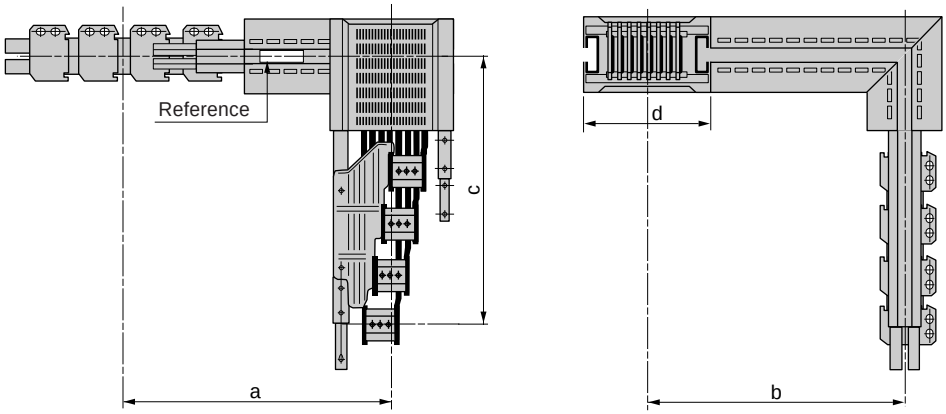
Type NE



Type NF



KHF-●●N●●1, KHF-●●N●●X

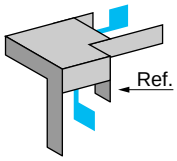


Edgewise/flat zed units, made to measure

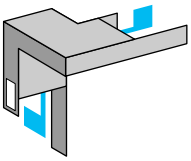
Rating

A	a	b	c	d
1000, 1200, 1450	410…999	166…999	460…999	166
2200, 2500	446…1035	202…1035	460…999	238
3000, 3400	482…1071	238…1071	460…999	310
4000, 4500	518…1107	274…1107	460…999	382

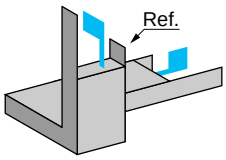
Type NG



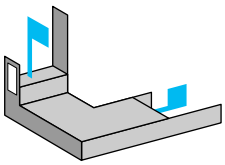
Type NH



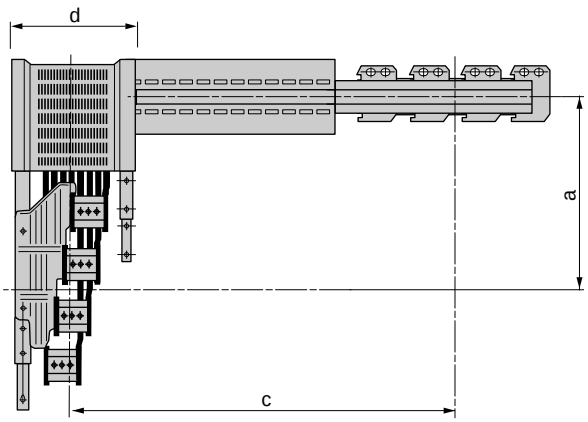
Type NK



Type NL



KHF-●●N●●1, KHF-●●N●●X



Edgewise/flat zed units, made to measure

Rating

A	a	b	c	d
1000, 1200, 1450	460…999	166…999	410…999	166
2200, 2500	460…999	202…1035	446…1035	238
3000, 3400	460…999	238…1071	482…1071	310
4000, 4500	460…999	274…1107	518…1107	382

High power busbar trunking

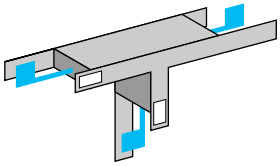
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10045/3 to 10045/5 and 10053/3

Canalis KHF (1000 to 4500 A)
Edgewise tees, cable feed units, flanged end feed unit

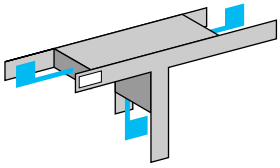
Dimensions

Edgewise tees (1000 to 4500 A)

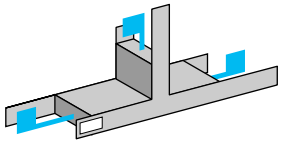
Type TB



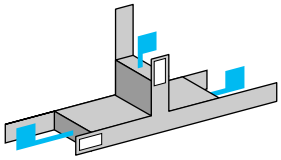
Type TC



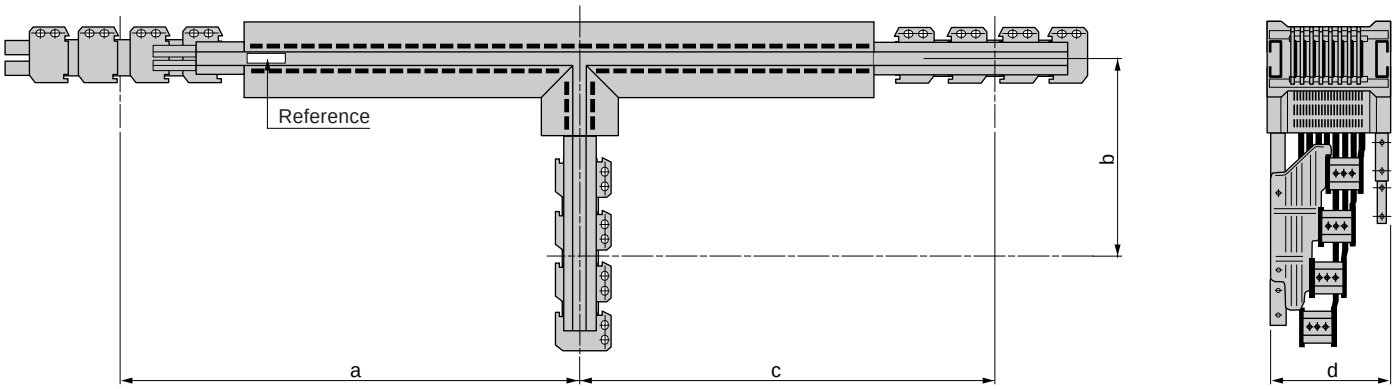
Type TE



Type TF



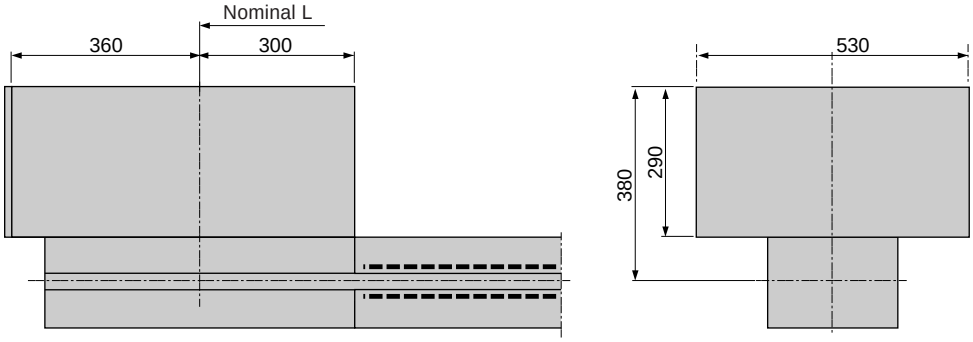
KHF-●●TB●X



Edgewise tees, made to measure

Rating A	a	b	c	d
1000, 1200, 1450	460…999	460…999	460…999	166
2200, 2500	460…999	460…999	460…999	238
3000, 3400	460…999	460…999	460…999	310
4000, 4500	460…999	460…999	460…999	382

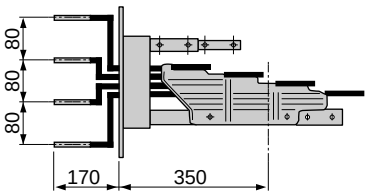
Cable feed units (1000 to 3400 A)
KH0-●6BC●

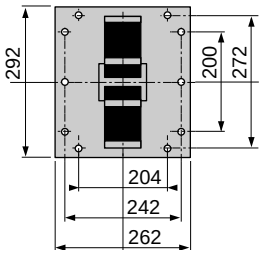


Connection capacity (mm²)
(connection to copper cables fitted with lugs, cut-out Ø 14 mm).

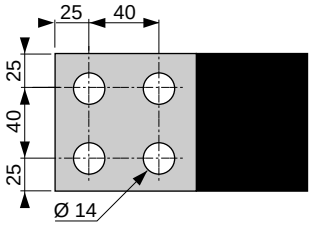
Type	Rating A	Cable cross-section Ph and N	PE
KH	1000	4 x 300	1 x 150
	1200	4 x 300	1 x 150
	1450	4 x 300	1 x 150
	2200	6 x 300	1 x 150
	2500	6 x 300	1 x 150
	3000	8 x 300	1 x 150
	3400	8 x 300	1 x 150

Flange feed unit (1600 A)
KH0-16ER1





Connection details



PE terminal connection capacity : 150 mm²

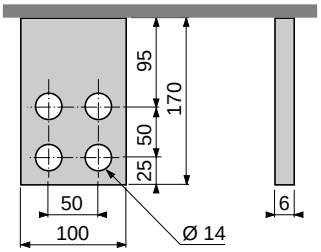
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10054/3 to 10054/5

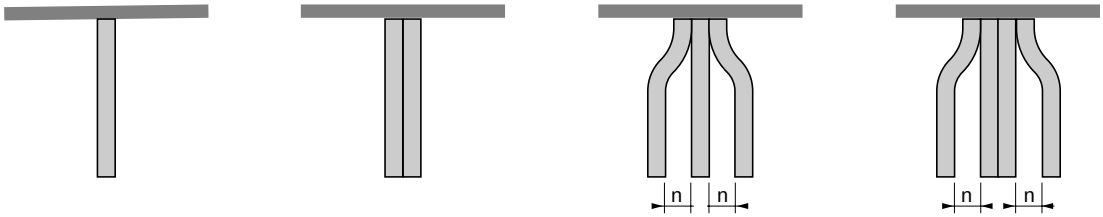
Canalis KHF (1000 to 4500 A)
End feed units (1000 to 4500 A)

Dimensions

Connection plate dimensions (for all feed units)



Position of the connection plates according to the number of bars per conductor (for all feed units)



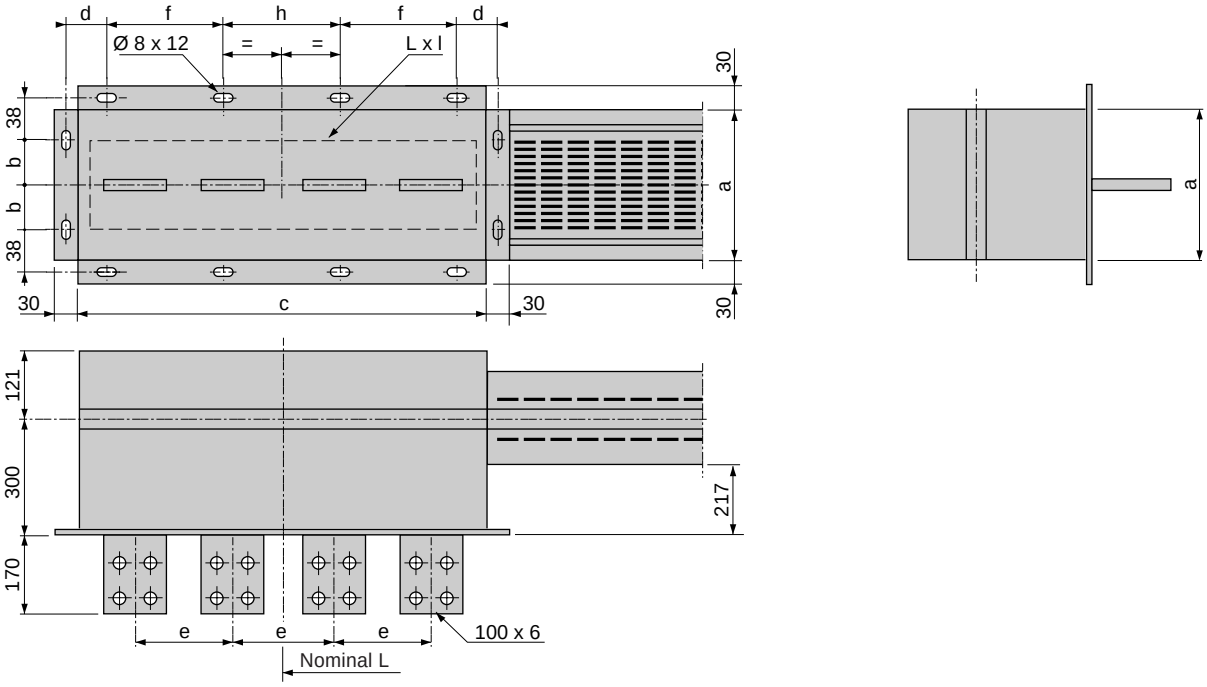
1 bar per phase

2 bars per phase

3 bars per phase
Dimension n as required

4 bars per phase
Dimension n as required

KH0-●6AA●●



Rating A	Dimensions e	a	b	c	d	f	h	L x l
1000, 1200, 1450	124	166	60	598	44	190	160	512 x 140
	160…200	166	60	806	53	250	230	750 x 140
2200, 2500	124	238	96	598	44	190	160	512 x 140
	160…200	238	96	806	53	250	230	750 x 140
3000, 3400	124	310	132	598	44	190	160	512 x 140
	160…200	310	132	806	53	250	230	750 x 140
4000, 4500	124	382	168	598	44	190	160	512 x 140
	160…200	382	168	806	53	250	230	750 x 140

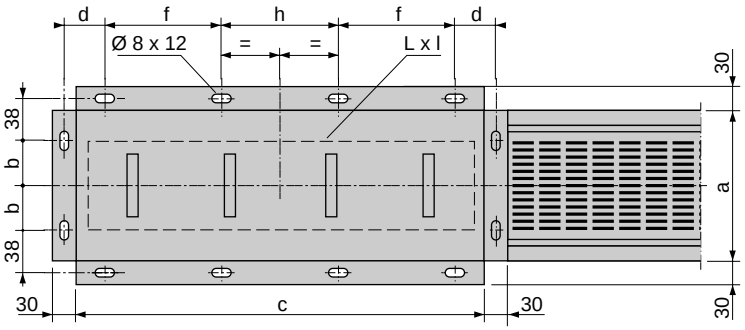
High power busbar trunking

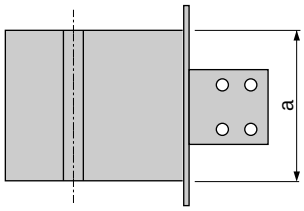
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10054/3 to 10054/5

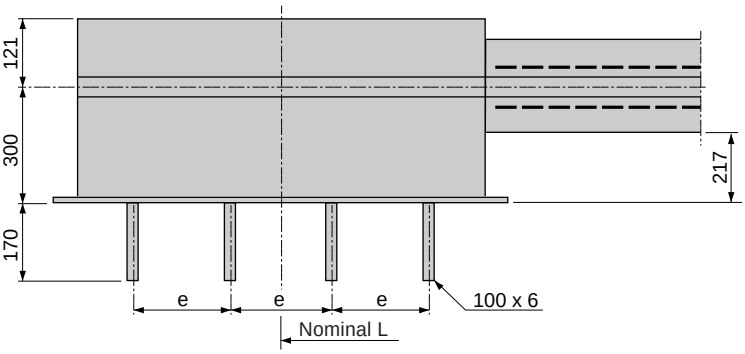
Canalis KHF (1000 to 4500 A)
End feed units (1000 to 4500 A)

Dimensions

KH0-●6AB●●







Rating **A**	Dimensions e	a	b	c	d	f	h	L x l
1000, 1200, 1450	124	166	60	598	44	190	160	512 x 140
	160…200	166	60	806	53	250	230	750 x 140
2200, 2500	124	238	96	598	44	190	160	512 x 140
	160…200	238	96	806	53	250	230	750 x 140
3000, 3400	124	310	132	598	44	190	160	512 x 140
	160…200	310	132	806	53	250	230	750 x 140
4000, 4500	124	382	168	598	44	190	160	512 x 140
	160…200	382	168	806	53	250	230	750 x 140

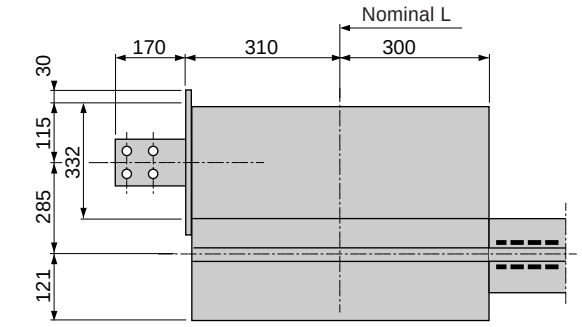
High power busbar trunking

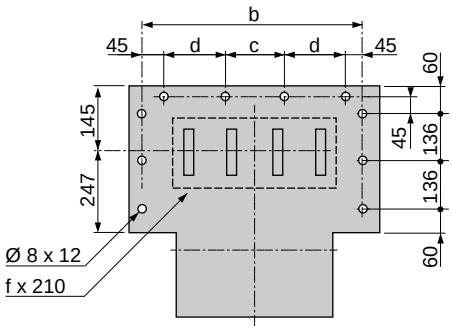
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10054/3 to 10054/5

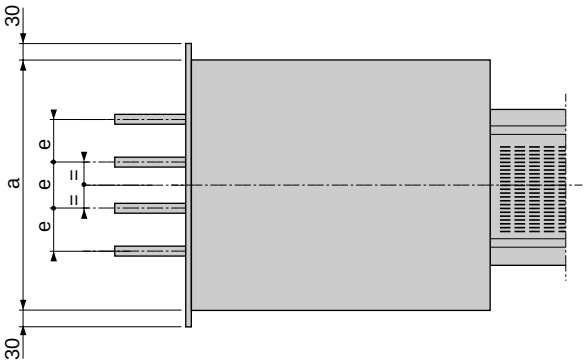
Canalis KHF (1000 A to 4500 A)
End feed units (1000 to 4500 A)

Dimensions

KH0-●6AC●●

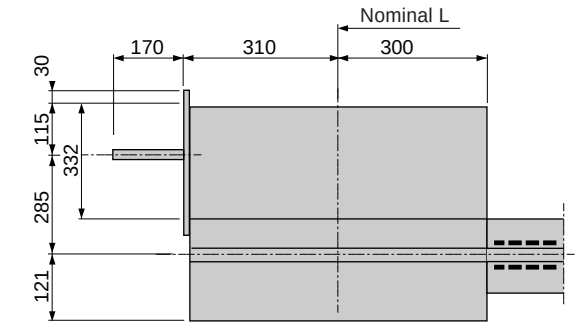


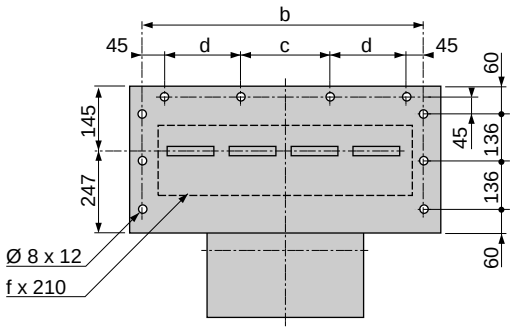


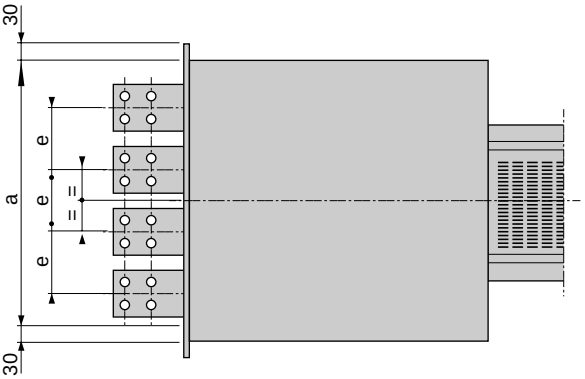


Rating A	Dimensions e	a	b	c	d	f
1000, 1200, 1450	80	500	530	140	150	340
2200, 2500	80	500	530	140	150	340
3000, 3400	120	600	630	180	180	580
4000, 4500	120	600	630	180	180	580

KH0-●6AD●●







Type	Dimensions e	a	b	c	d	f
KH0-●6AD●1	120	600	630	180	180	540
KH0-●6AD●2	120…200	820	850	260	250	750

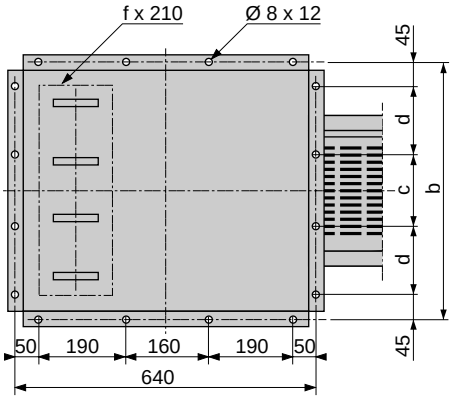
High power busbar trunking

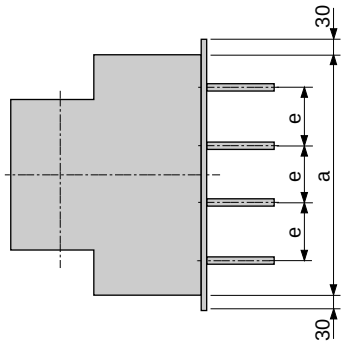
Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10054/3 to 10054/5

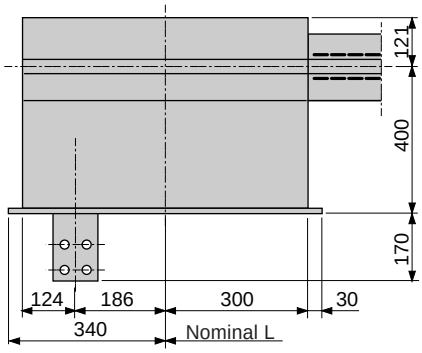
Canalis KHF (1000 A to 4500 A)
End feed units (1000 to 4500 A)

Dimensions

KH0-●6AK●●

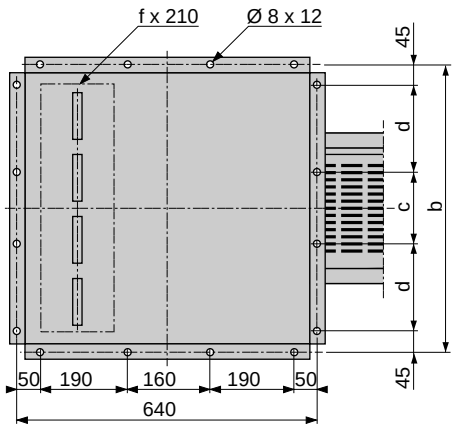


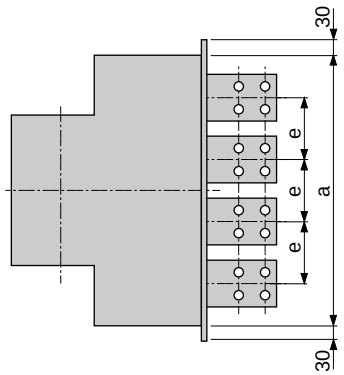


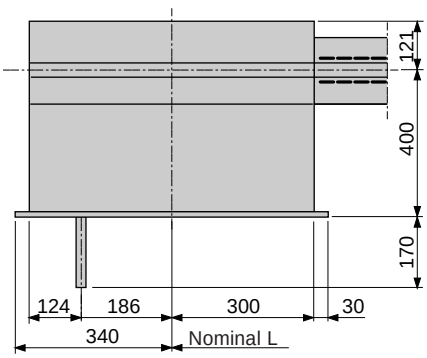


Rating A	Dimensions e	a	b	c	d	f
1000, 1200, 1450	80	500	530	140	150	340
2200, 2500	80	500	530	140	150	340
3000, 3400	120	600	630	180	180	580
4000, 4500	120	600	630	180	180	580

KH0-●6AL●●







Type	Dimensions e	a	b	c	d	f
AL●1	120	600	630	180	180	540
AL●2	120 to 200	820	850	260	250	750

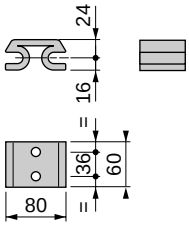
High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10055/2 to 10055/3

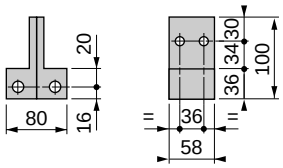
Canalis KHF (1000 to 4500 A)
Connection accessories

Dimensions

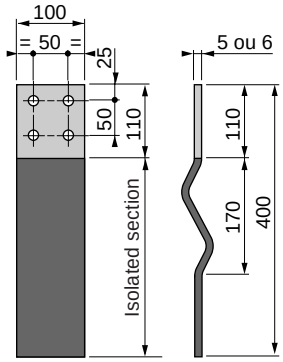
Equipotential
KH0-00YA11



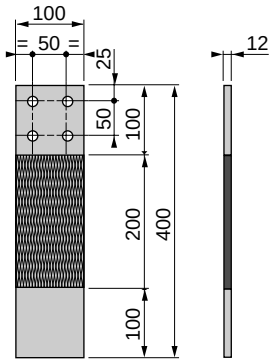
KH0-00YA2



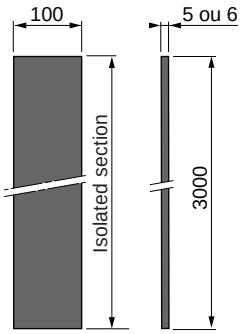
Vibration absorber connection bar
KH0-00YA75



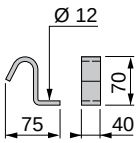
Braid
KH0-00YA9



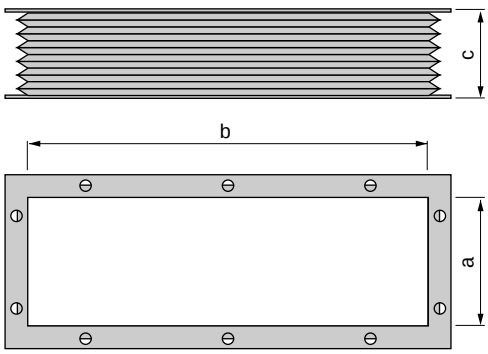
Flexible bar
KH0-00YA85



Fixing
KH0-00ZA5



Flexible protective cover
KH0-CS●●



Cover references	a	b	c
KH0-CS01	166	598	200…650
KH0-CS02	166	806	200…650
KH0-CS03	238	598	200…650
KH0-CS04	238	806	200…650
KH0-CS05	310	598	200…650

Cover references	a	b	c
KH0-CS06	310	806	200…650
KH0-CS07	382	598	200…650
KH0-CS08	382	806	200…650

Cover references	a	b	c
KH0-CS11	330	500	200…650
KH0-CS12	330	600	200…650
KH0-CS13	330	820	200…650

High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10057/3 to 10057/5

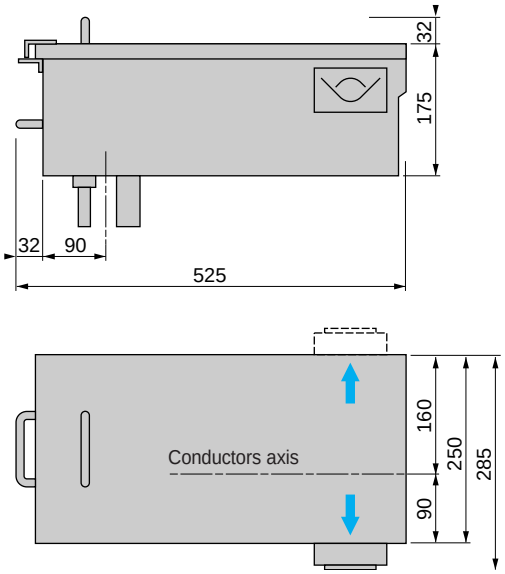
Canalis KHF de 1000 to 4500 A
Removable tap-off units mounted between joints, with isolator and fuse carriers

Dimensions

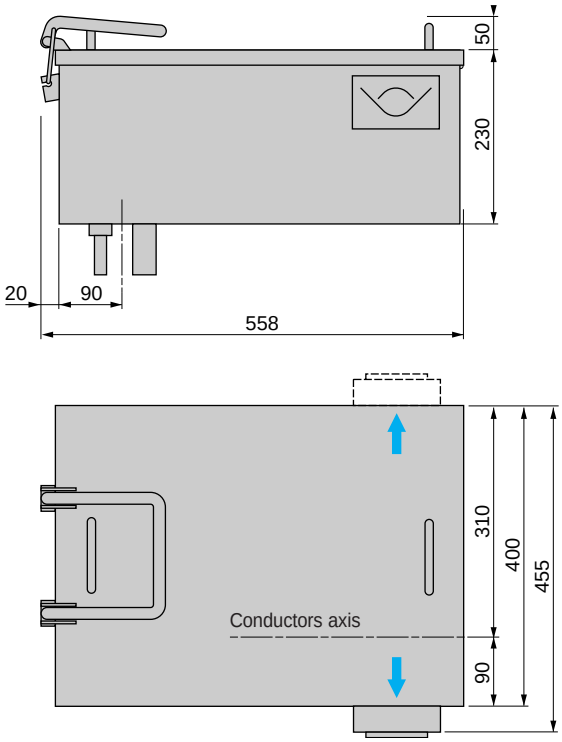
Characteristics of tap-off units

Nominal current		**A**	**160**	**250**	**400**	**630**
Fuse size			0	1	2	3
Cable capacity		**mm²**	1 x 75	1 x 95	1 x 185	2 x 185
Cable clamps		**Ø mm**	25…40	30…70	30…70	2 x 30…70
Weight	3L + PE	**kg**	12	36	38	55
	3L + N + PE	**kg**	12.5	37	39	56
	3L + PEN	**kg**	12.5	37	39	56

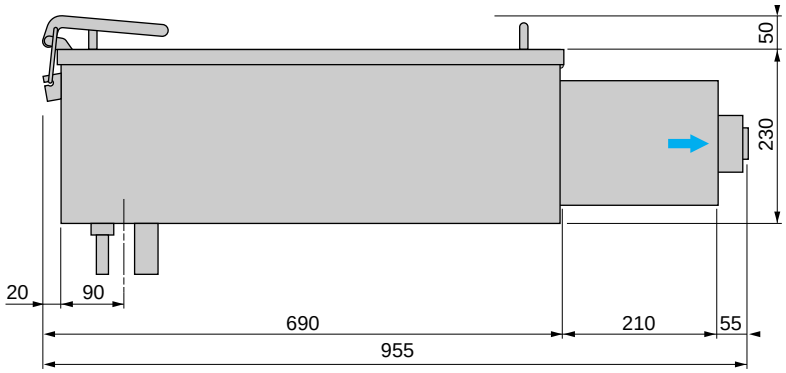
KH0-16SD●●

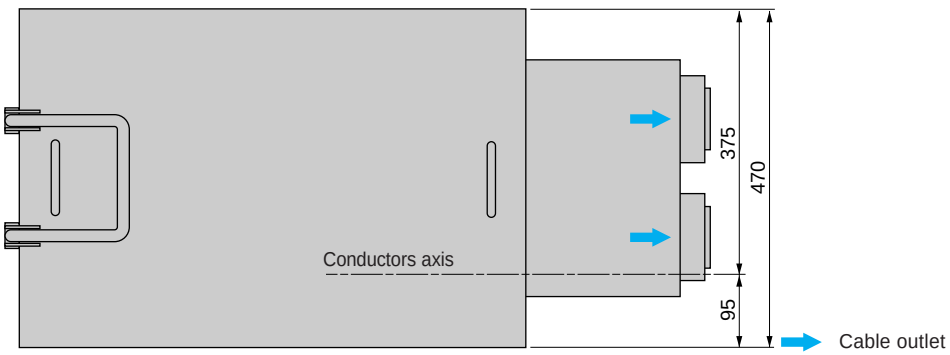


KH0-25SD●●, KH0-40SD●●



KH0-63SD●●





High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10057/3 to 10057/5

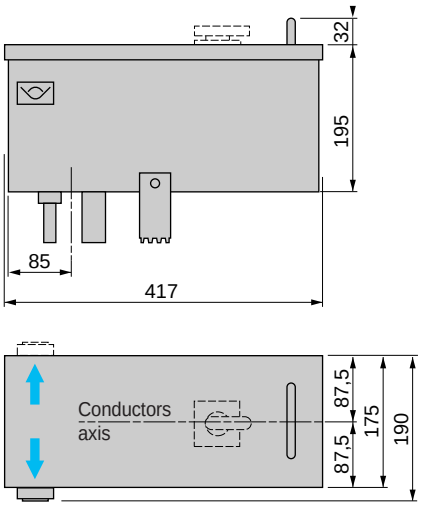
Canalis KHF (1000 to 4500 A)
Removable tap-off units mounted between joints, with switch and fuse carriers

Dimensions

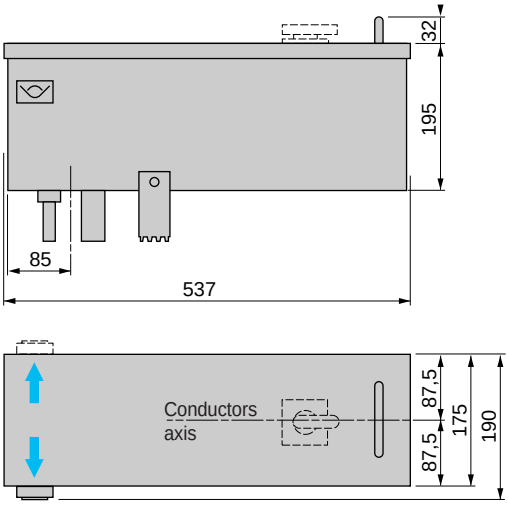
Characteristics of tap-off units

Nominal current		A	50	125	200	315	500
Fuse size			14 x 51	22 x 58	1	2	3
Cable capacity		mm²	1 x 10	1 x 35	1 x 95	2 x 185	2 x 185
Cable clamps		Ø mm	16…30	24…40	30…70 (1)	30…70 (1)	2 x 30…70 (1)
Weight	3L + PE	kg	7.5	14.5	39.5	46	55
	3L + N + PE	kg	8	15	41	48	58
	3L + PEN	kg	8	15	41	48	58

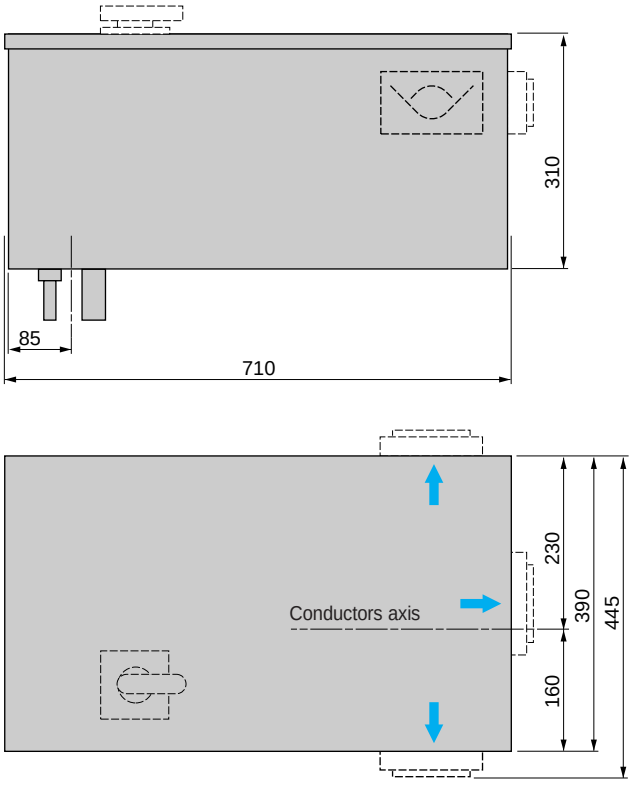
KH0-05SD●●



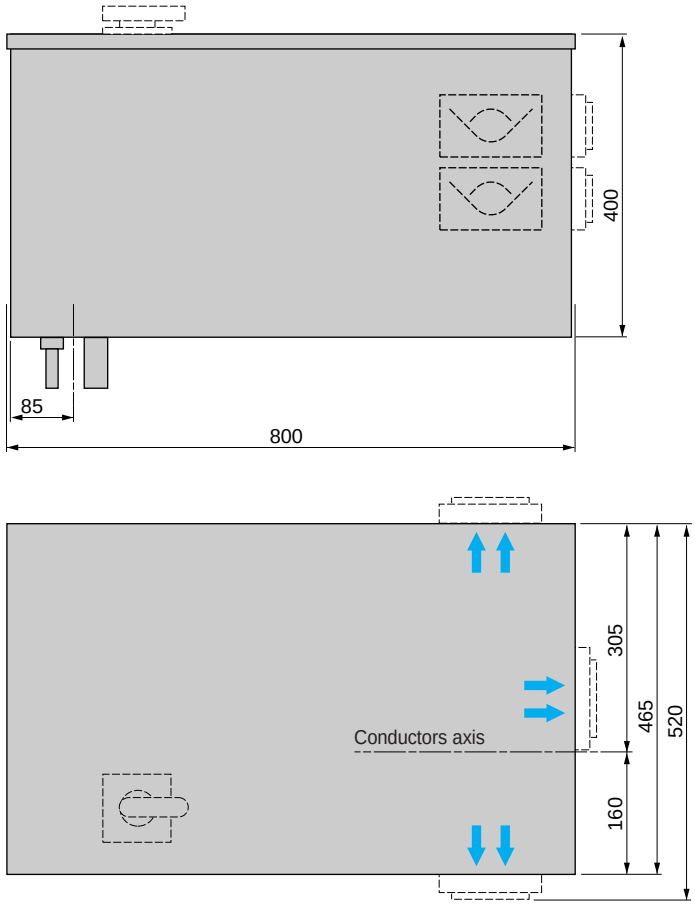
KH0-10SD●●



KH0-20SD●●, KH0-31SD●●



KH0-50SD●●



Cable outlet
(1) optional

High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10057/3 to 10057/5

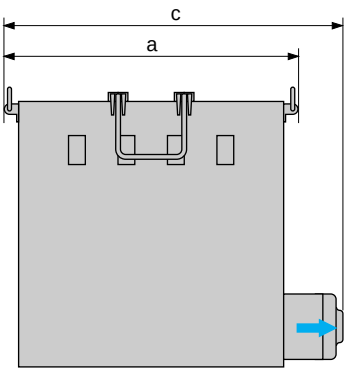
Canalis KHF (1000 to 4500 A)
Bolt-on tap-off units mounted on joints

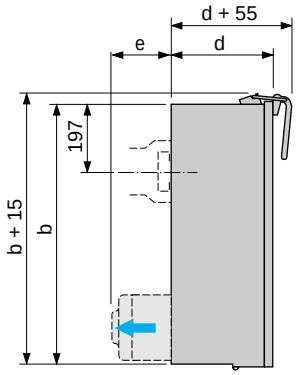
Dimensions

Tap-off unit, isolator and fuses

Characteristics of tap-off unit							
Nominal current		**A**	**160**	**250**	**400**	**630**	**1000**
Fuse size			0	1	2	3	4
Cable capacity		**mm²**	1 x 70	1 x 150	2 x 300	2 x 300	3 x 300
Cable clamps		**Ø mm**	25…40	30…70	2 x 30…70	2 x 30…70	3 x 30…70
Weight	3L + PE	**kg**	45	46	64	71	86
	3L + N + PE	**kg**	47	48	66	75	90
	3L + PEN	**kg**	49	50	68	75	88

KH0-●●SB●●●





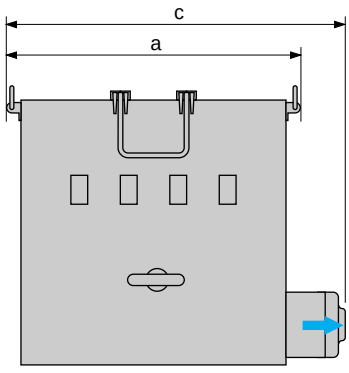
Cable output

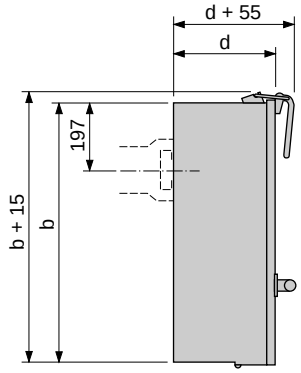
Rating (**A**)	a	b	c	d	e
160/250	540	500	630	265	–
400/630	640	600	750	290	–
1000	650	485	–	300	120

Tap-off unit, switch and fuses

Characteristics of tap-off unit						
Nominal current		**A**	**250**	**400**	**630**	**1000**
Fuse size			1	2	3	4
Cable capacity		**mm²**	1 x 150	2 x 300	2 x 300	4 x 185
Cable clamps		**Ø mm**	30…70	2 x 30…70	2 x 30…70	–
Weight	3L + PE	**kg**	50	74	84	131
	3L + N + PE	**kg**	52.5	78	88	140
	3L + PEN	**kg**	54.5	80	90	131

KH0-●●SB●●●

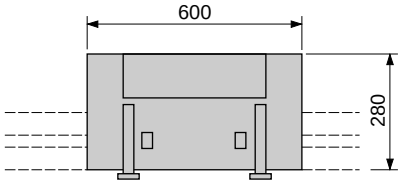


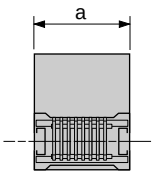


Cable outlet

Rating (**A**)	a	b	c	d
250	540	500	630	265
400/630	640	600	750	290
1000	818	964	–	436

Connecting equipment KH0-●●CB





Busbar trunking current (**A**)	a
1000, 1200, 1450	166
2200, 2500	238
3000, 3400	310
4000, 4500	382

High power busbar trunking

Description :
pages 10041/2 to 10041/5
Selection guide :
page 10042/2
Characteristics :
page 10042/3
References :
pages 10057/3 to 10057/5

Canalis KHF (1000 to 4500 A)

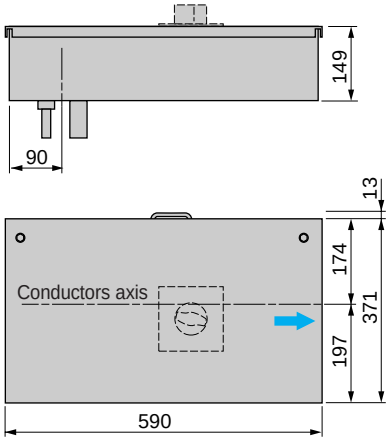
Removable tap-off units mounted between joints, for Merlin Gerin Compact NS circuit-breaker

Dimensions

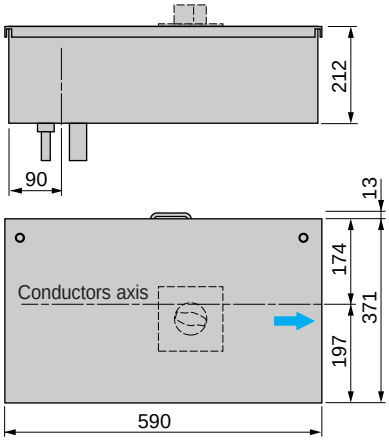
Characteristics of tap-off unit						
Nominal current		**A**	**160**	**250**	**400**	**630**
Type of circuit-breaker			NS160 N/H/L	NS250 N/H/L	NS400 N/H/L	NS630 N/H/L
Cable capacity		**mm²**	1 x 70	1 x 150	2 x 300	2 x 300
Cable clamps (optional)		**Ø mm**	25-40	30-70	2 x 30-70	2 x 30-70
Weight	3L + PE	**kg**	23	29	31	41
	3L + N + PE	**kg**	25	32	34	45
	3L + PEN	**kg**	25	32	34	45

Circuit-breaker not provided

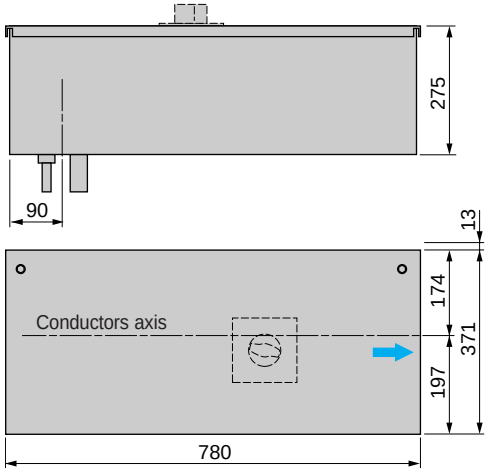
KH0-16SD●●●



KH0-25SD●●●



KH0-63SD●●●



Cable outlet

KH-KV connector
KV0-●●ER41002