ENERGY GROUP LTD

TRUNKING SYSTEMS

ШИНОПРОВОДНИ СИСТЕМИ

HP-K SERIES 400A-6300A

THE SMARTEST WAY OF POWER DISTRIBUTION

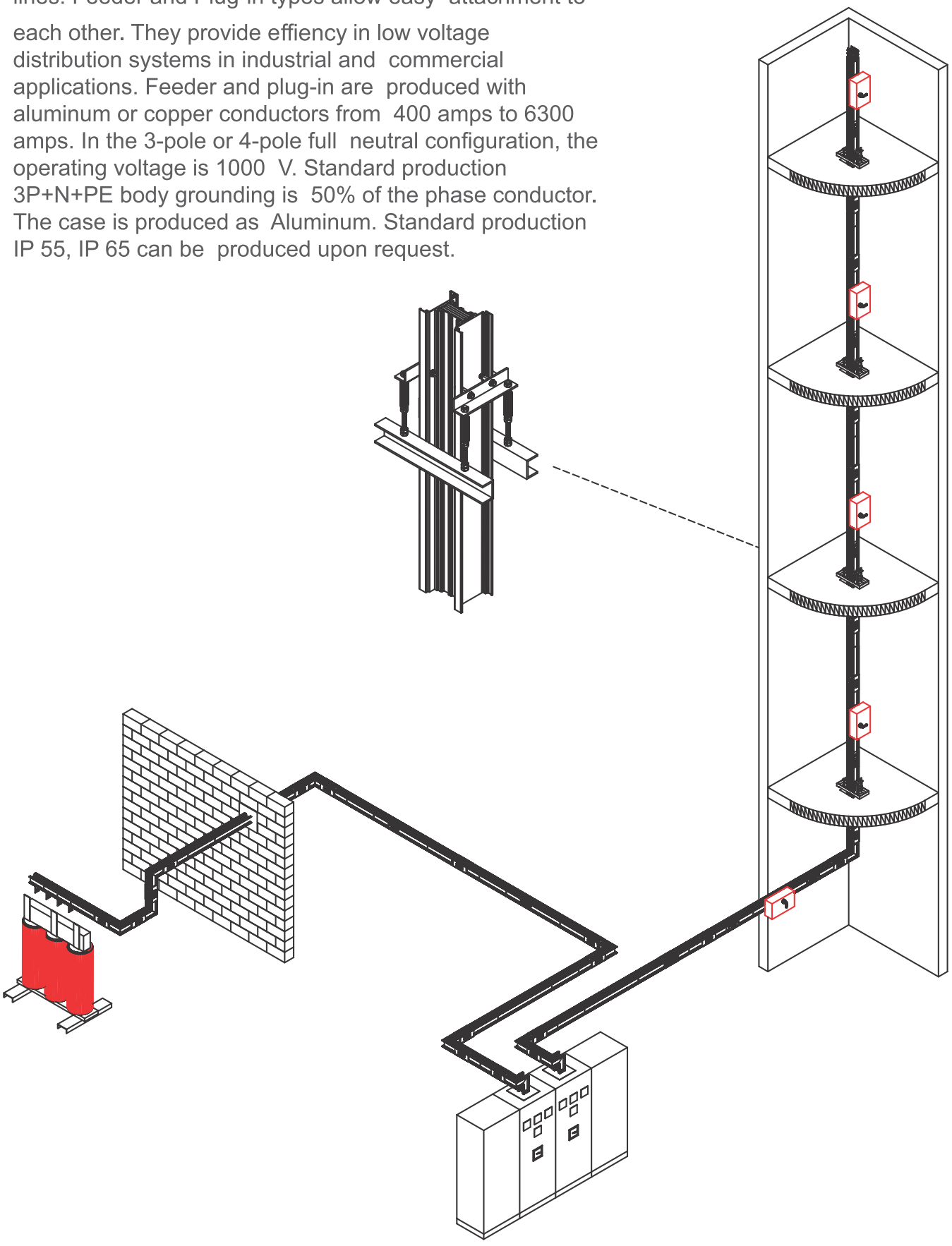
Най-умният начин за разпределение на електроенергия

DTM®

HP-K

GENERAL FEATURES

Busbar trunking systems are sandwich systems compatible with complex low voltage energy distribution lines. Feeder and Plug-in types allow easy attachment to each other. They provide effiency in low voltage distribution systems in industrial and commercial applications. Feeder and plug-in are produced with aluminum or copper conductors from 400 amps to 6300 amps. In the 3-pole or 4-pole full neutral configuration, the operating voltage is 1000 V. Standard production 3P+N+PE body grounding is 50% of the phase conductor. The case is produced as Aluminum. Standard production IP 55, IP 65 can be produced upon request.



General

It is used in places with high current requirements such as between transformer and panel, high service buildings, commercial centers, industrial facilities, military facilities, public buildings.

Sandwich Construction

Feeder and Plug-in busbars are sandwich type systems that are easy to assemble. Due to its structure, the voltage drop characteristics are at minimum and it provides a regular low reactive power factor. Construction channels are designed as aluminum profile and upper and lower covers are aluminum. Hysteresis currents and Eddy currents are minimized by spreading them in the aluminum channel. In cases where 2 or 3 conductors are used per phase in Feeder and Plug-in lengths, parallelization is made at the end of each phase. (In the change of phases). The body of the plug-in lengths has windows with lids that allow flat mounting and exit of tap-offs. Additional accessories used for the feeder can also be used in Plug-in types.
Plug-in and Feeder types can be mounted together.

Full Enclosed Construction

Busbar systems have a fully closed design. This duct design does not reduce the electrical values and since there are no ventilation holes, the contact of the conductors with a foreign material is prevented. The heat dissipation spreads directly with the body close to the conductors.

Finish

RAL 7038

Electrostatic paint is applied in busbar duct systems.

Insulation and Product Features

All busbars are applied epoxy resin. The joints are tin plated to minimize contact resistance and surface corrosion on the surface. Splice block conductors can be silver plated as an option.

Economic

Busbar trunking systems take up less space than cable trunking systems and have low installation costs.

BUSBAR FEATURES

Voltage Drop

Due to its compact structure, it provides the most e翱□cient transmission of power by minimizing the voltage drop due to its very low reactance.

Joints

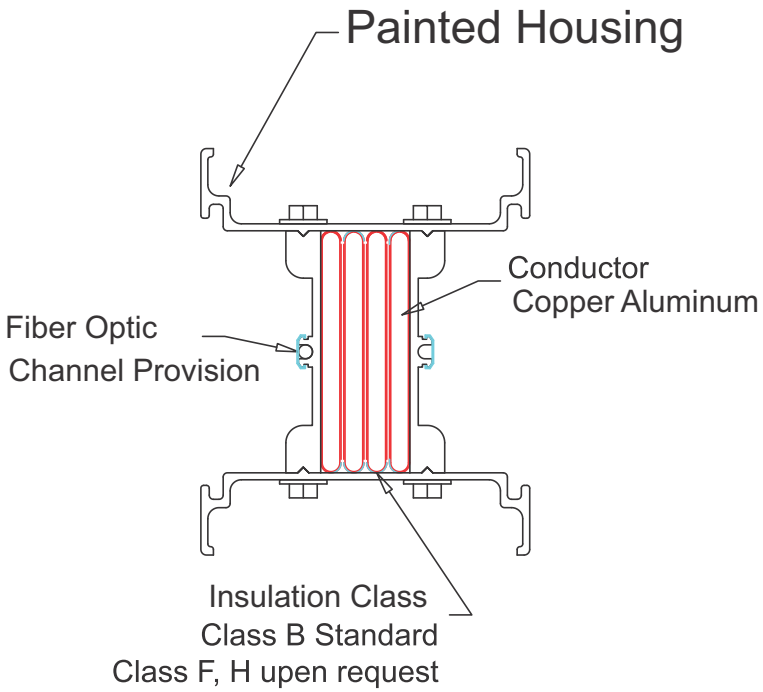
In external feeder busbars, the joints applied with a special gasket to prevent rain water from entering into it provide protection and smoothness in all conditions.

Fitting

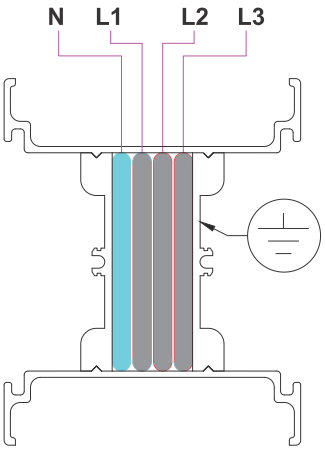
Elbows can be easily added with an additional block.

Plug-In Points

Plug-ins are V2 (non-flammable), resistant to harsh environmental conditions and resistant to high temperatures. Sealed protection cover made of flame retardant certified material is IP 55. Jaws contact surfaces provide permeability thanks to the compression spring on the conductors.

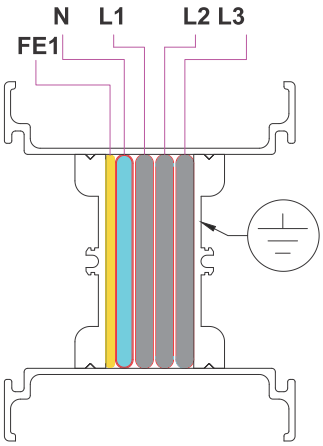


Ratings		
	AL	CU
400A	□	□
500A	□	□
630A	□	□
800A	□	□
1000A	□	□
1250A	□	□
1350A	□	□
1600A	□	□
2000A	□	□
2250A	□	□
2500A	□	□
2000A	□	□
2500A	□	□
3000A	□	□
3200A	□	□
3300A	□	□
3600A	□	□
4000A	□	□
4250A	□	□
5000A	□	□
6300A	□	□
□	Standard Production	



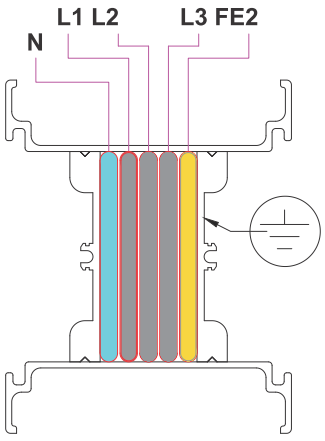
3P+N+PE (Housing) (4P) (T2)

The neutral conductor cross-section is the same as the phase conductor, and the case cross-section used for grounding is larger than the phase conductor cross-section.



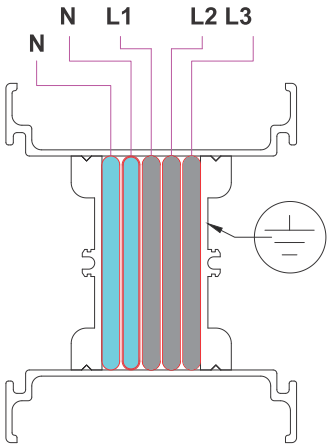
3P+N+FE1+PE (Housing) (5P) (T3)

Neutral conductor cross-section is placed in the same housing as the phase conductor with the same grounding cross-section as 1/2.



3P+N+FE2+PE (Housing) (5P) (T4)

Neutral conductor cross-section is the same as phase conductor and 100% grounding cross-section is placed in the housing as the same.



3P+2N+PE (Housing) (5P) (T5)

The neutral conductor cross-section is the same as the phase conductor, and the neutral conductor cross-section is twice that of the phase conductor.

HP-K

Project Details

Indoors Installation
..... ☐ Outdoors
Installation ..... ☐ Roof
Minimum Temperature Roofless ..... Internal ☐ .....˚C
External .....˚C
Maximum Temperature Internal .....˚C
External .....˚C
Temperature 24 Hour Average Internal .....˚C
External .....˚C
Humidity Min .....˚C
Max .....˚C
Country of Installation .....

Electrical Data

Nominal Current .....A
Inrush Current .....A
Phase Poles 3P+Pe ☐
3P+N+Pe ☐
3P+Pen ☐
3P+2N+Pe ☐
3P+N+Fe/2+Pe ☐ 3P+N+Fe+Pe ☐

Operating Voltage V
AC ☐ DC ☐
Phase Short Circuit .....kA (1s)
Max Voltage Drop ΔV .....%
Minimum Protection Degree IP .....
Conductor Metal AL ☐ COPPER ☐

Busbar Types

Feeder Busbar Transformer to Board ☐
Feeder Busbar Panel to Panel ☐
Feeder Busbar Generator to Panel ☐
Plug-in Busbar Tapoff Units ☐
Busbar Total Length .....
Feeder .....m
Plug-in .....m
Elbows .....ad

Connection Type

Between Busbar and Panel Yes ☐ .....No ☐
Between Busbar and Transformer Yes ☐ .....No ☐
Transformer Resin Yes ☐ .....No ☐
Transformer Specification Dry☐ .....Oil ☐

Tap-Off Boxes

Empty Fuse with Base ☐ Load Breaker with Fuse Base ☐
Empty Automatic Switch ☐ Automatic Switch ☐

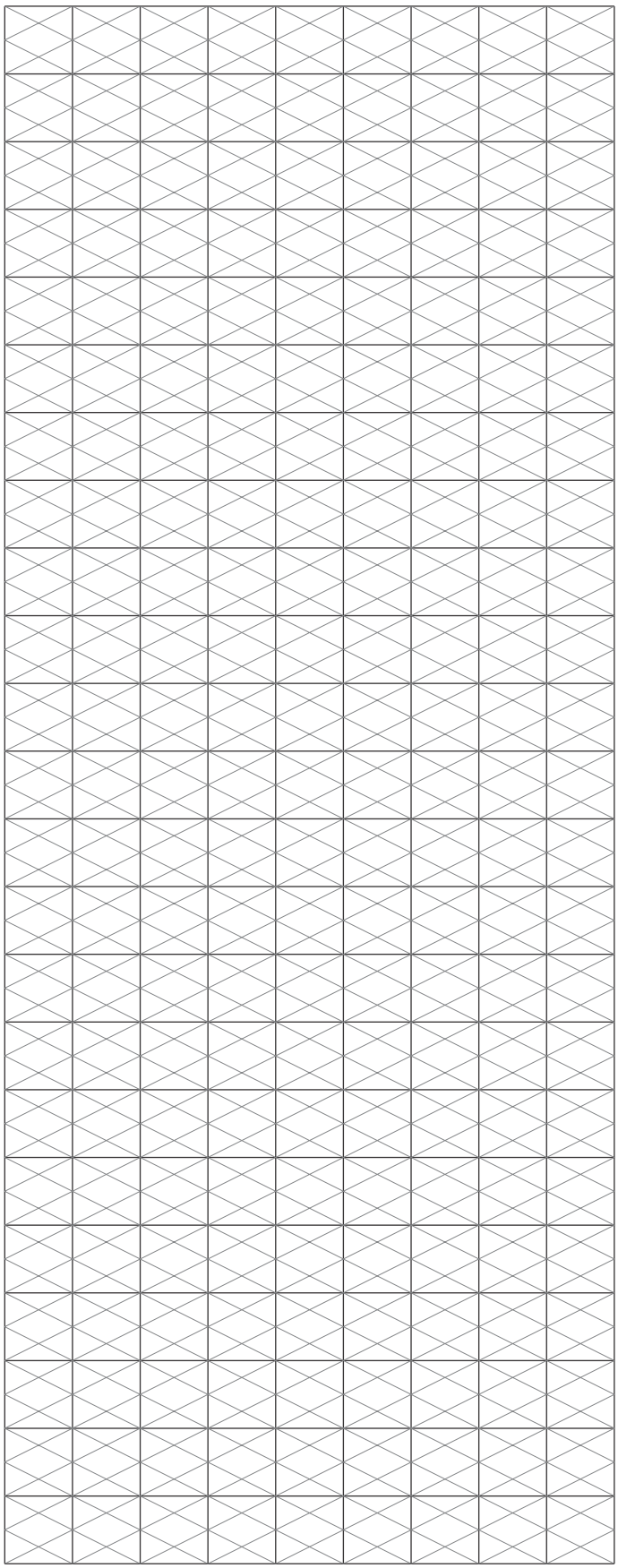
Suspension Sets

Ceiling Susp. ☐ Wall Susp. ☐

Fire Barrier Unit

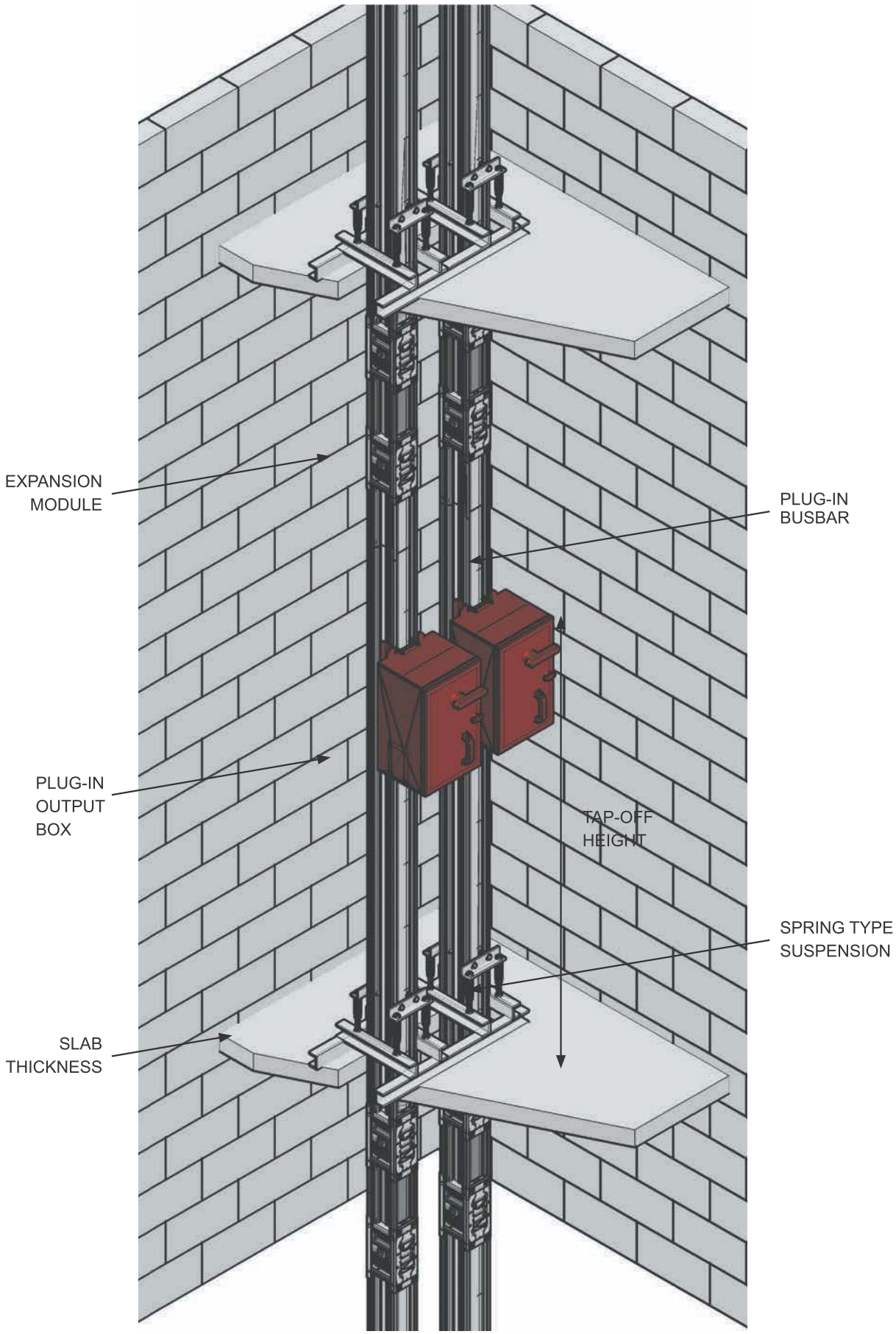
Fire Barrier Unit .....min. ☐
Turn drafts isometric documents for fittings.

LAYOUT DETAILS

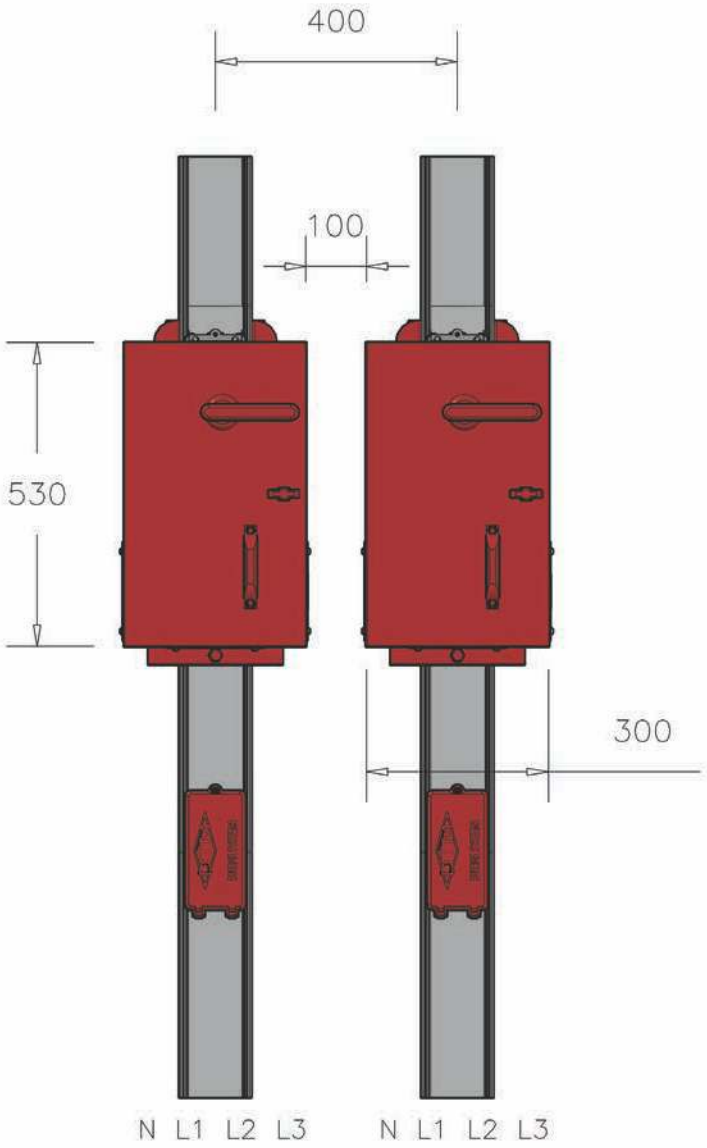


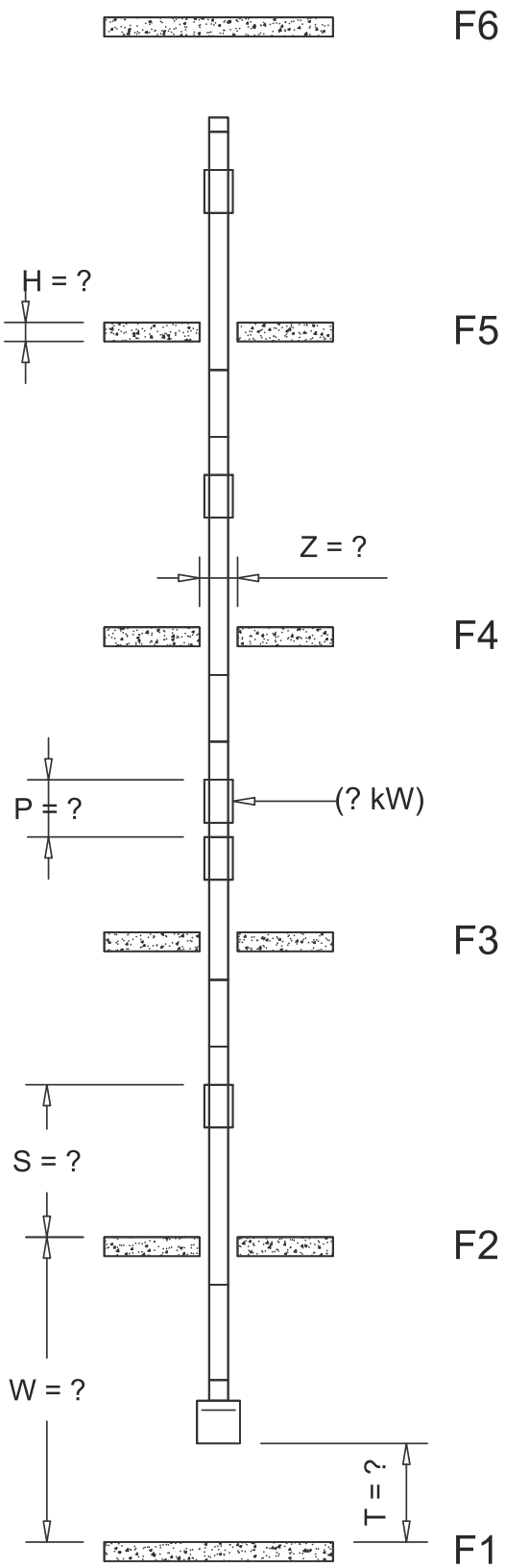
CUSTOMER APPROVAL

VERTICAL DISTRIBUTION PROJECT



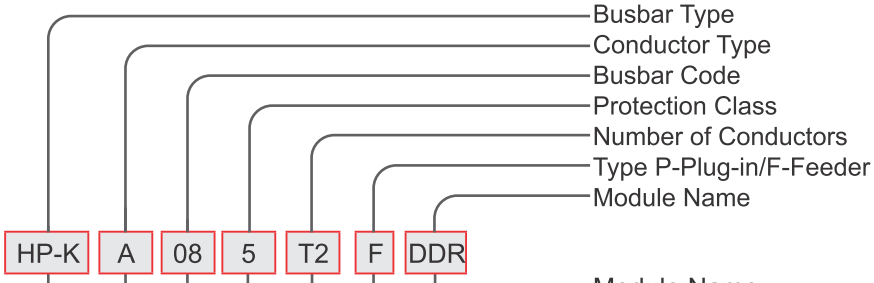
VERTICAL DISTRIBUTION PROJECT





H = Slab Thickness (cm ?)
W = Floor Height (cm ?)

ORDER CODE SYSTEM



BUSBAR NAME

Busbar Type

ALUMINUM (AL)	(A)
COPPER (CU)	(C)

Conductor Type

HP-K AL BUSBAR		HP-K CU BUSBAR	
CRRNT	CODE	CRRNT	CODE
400	04	550	05
500	05	650	06
630	06	800	07
800	08	1000	09
-	-	1250	13
1000	10	1350	15
1250	12	1600	17
1350	14	-	-
-	-	2000	21
1600	16	-	-
-	-	2250	23
2000	20	2500	24
2500	25	-	-
-	-	2000	22
-	-	2500	27
2500	26	3300	33
-	-	3600	36
3000	30	4000	41
3200	32	-	-
-	-	4250	42
4000	40	5000	51
5000	50	6300	64
6300	63		

Busbar Current

IP55	5
IP67	6

√ Protection Class

Number of Conductors

Number of Conductors	Code	L1	L2	L3	N	1/2 GRND	CLEAN GRND	1/2 CLEAN GRND	GRND (BODY)
3P+PE (3P)	T1	√	√	√					√
3P+N+PE (4P)	T2	√	√	√	√				√
3P+N+PE+FE1(5P)	T3	√	√	√	√	√			√
3P+N+PE+FE2	T4	√	√	√	√			√	√
(5P) 3P+2N+PE (5P)	T5	√	√	√	√		√		√

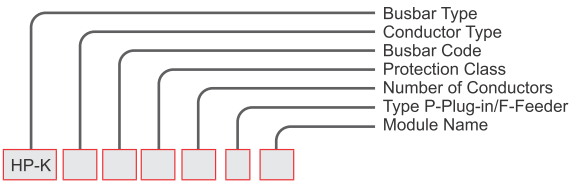
(A)	PLUG-IN USED FOR TAKING CURRENT FROM PLUG-IN PLACES IN FLAT SIZES.
(B)	FEEDER USED WHERE CURRENT IS NEEDED TO BE TAKEN FROM ADDITIONAL POINTS AND DIRECT FEEDING IS MADE.

Type P-Plug-in /F-Feeder

Module Name

Feeder Busbar	FS
Plug-In Busbar	PS
Horizontal Elbow Up	YDU
Horizontal Elbow Down	YDD
Vertical Elbow Left	DDL
Vertical Elbow Right	DDR
Feeder Special Length	FX
Plug-In Special Length	PX
Double Vertical Elbow (Off-Set) Up	DOU
Double Vertical Elbow (Off-Set) Down	DOD
Double Vertical Elbow (Off-Set) Left	YOL
Double Vertical Elbow (Off-Set) Right	YOR
Up Left (Combined Off-Set)	ULK
Up Right (Combined Off-Set)	URK
Left Down (Combined Off-Set)	LDK
Right Down (Combined Off-Set)	RDK
Left Up (Combined Off-Set)	LUK
Right Up (Combined Off-Set)	RUK
Down Left (Combined Off-Set)	DLK
Down Right (Combined Off-Set)	DRK
Center (T) Module	OT
Right (T) Module	RT
Left (T) Module	LT
Reducer	RD
Expansion Module	G
Panel Connection Module (E)	PME
Panel Connection Module (D)	PMD
Panel Vertical Connection Module Up	PM1
Panel Vertical Connection Module Down	PM2
Panel Vertical Connection Module Up	PM3
Panel Vertical Connection Module Down	PM4
Panel Horizontal Connection Module Left	PM5
Panel Horizontal Connection Module Right	PM6
Panel Horizontal Connection Module Left	PM7
Panel Horizontal Connection Module Right	PM8
With Mechanism (Plug-In)	HPP
Compact Switch (Plug-In)	HPS
Compact Switch (Bolt-On)	HPB
With Mechanism (Bolt-On)	HPM
Vertical Transformer Module	TR1
Up Transformer Module	TRU
Down Transformer Module	TRD
Right Transformer Module	TRR
Left Transformer Module	TRL
Horizontal Transformer Connect. Module	TMH
Horizontal Transformer Connect. Module	TMF
Transformer Connection Module	TMK
Transformer Connection Module Center	TMO
Start Feed Module	BM1
End Feed Module	BM2
Center Feed Module	OB
Cross Module	CM
Termination Module	S1
Horizontal Expansion	YD
Horiz. Suspension Vert. Module (Special)	YVA
Wall Suspension Set (Horizontal)	DYA
Horiz. Suspension Vert. Module (U Profile)	YVU
Horiz. Suspen. Horiz. Module (U Profile)	YHU
Horiz. Susp. Vert. Module (45x65 Bracket)	YUD
Horiz. Susp. Horiz. Module (45x65 Bracket)	YUY
Shaft Suspension Module (Spring)	SA
Horizontal Panel Module Entrance	YP1
Horizontal Panel Module Exit	YP2
Termination Module	S2
Horiz. Susp. Vert. Module (50x50 Bracket)	YLD
Horiz. Susp. Vert. Module (50x50 Bracket)	YLY
Horiz. Susp. Vert. (U) Profile Module	YUP
Horizontal Ceiling Connection Kit	YTK
Flexible Connection Busbar	FB
Panel Bellows Flange	PKF
Horiz. Susp. Vertical Application (NPI80)	YID
Horiz. Susp. Horizontal Application (NPI80)	YIY
Ceiling Suspension NPI	IYD

Standard Size



Feeder Busbar	FS

SAMPLE ORDER

1600 A Aluminum,
Feeder IP 55 4 Conductors

HP-KA165T2FS

FEEDER BUSBAR

It provides direct feeding in power transmission. Energy can be received via Bolt-on. Standard production is 3000 mm, upon request, it can be manufactured in different sizes starting from minimum 500 mm.

Plug-in Busbar	PS

SAMPLE ORDER

1250 A Aluminum,
Plug-in IP 55 4 Conductors

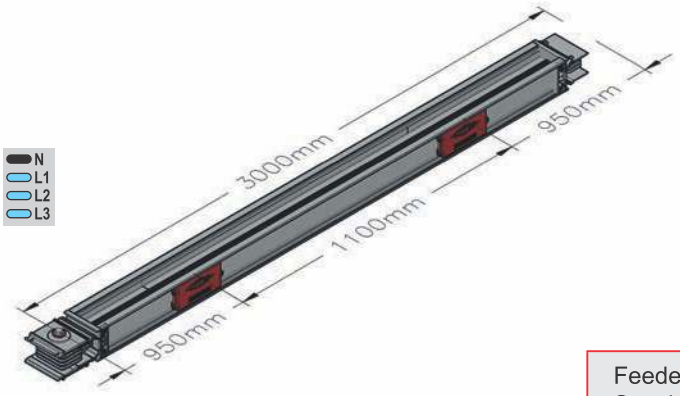
HP-KA125T2PS

PLUG-IN BUSBAR

Standard production in Plug-in sizes with 2 outlets, the number of outlets can be changed upon request.

Plug-in busbars; With bolt-on output boxes up to 1000A from its additional points and Plug-in output boxes up to 630 A from its sockets, current can be taken.

Info: Please specify the number of currect receiving windows and whether they are single or double sided in your Plug-in orders.



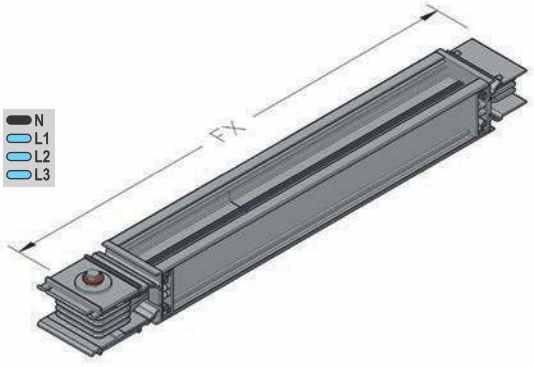
Feeder Busbar Special Length	FX

SAMPLE ORDER

2000 A Aluminum,
Feeder IP 55 4 Conductors

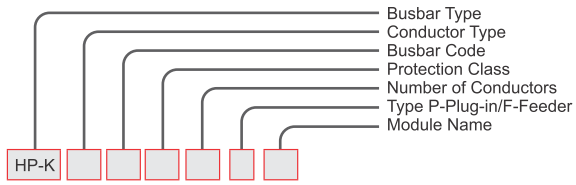
HP-KA205T2FX

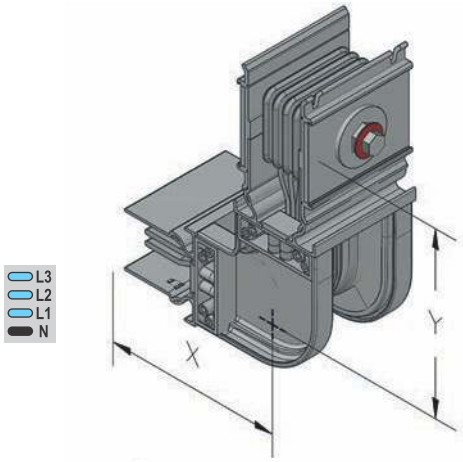
Info:
Feeder Min. Special Length = 50 cm
Plug-in Min. Special Length =100 cm



Please call our company for special size modules.

Elbow Modules



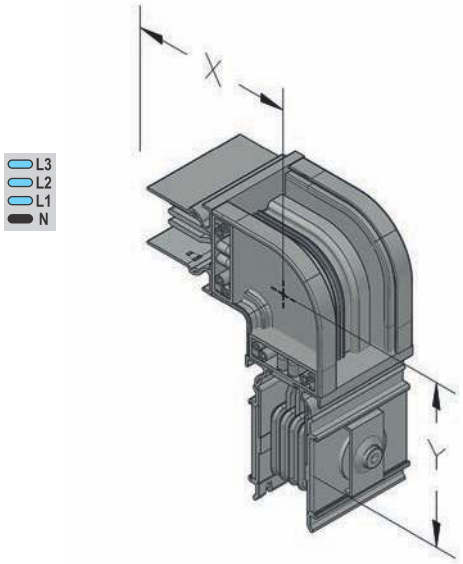


Vertical Elbow Upwards	DDU

SAMPLE ORDER

800 A Aluminum,
Elbow IP 55 4 Conductors

HP-KA085T2FDDU

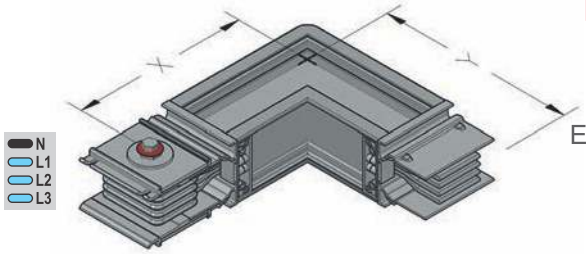


Vertical Elbow Downwards	DDD

SAMPLE ORDER

3200 A Aluminum,
Elbow IP 55 4 Conductors

HP-KA325T2FDDD

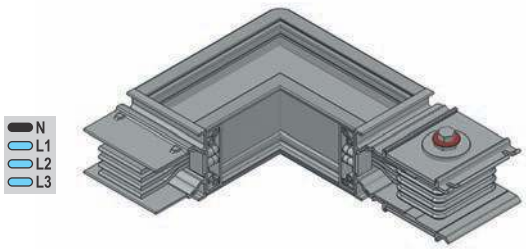


Horizontal Elbow Left	YDL

SAMPLE ORDER

4000 A Aluminum,
Elbow IP 55 4 Conductors

HP-KA405T2FYDL



Horizontal Elbow Right	YDR

SAMPLE ORDER

800 A Aluminum,
Elbow IP 55 4 Conductors

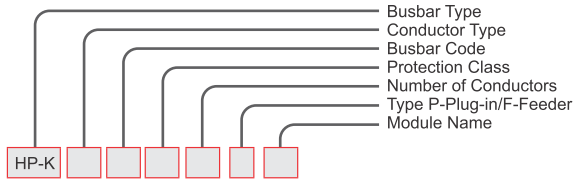
HP-KA085T2FYDR

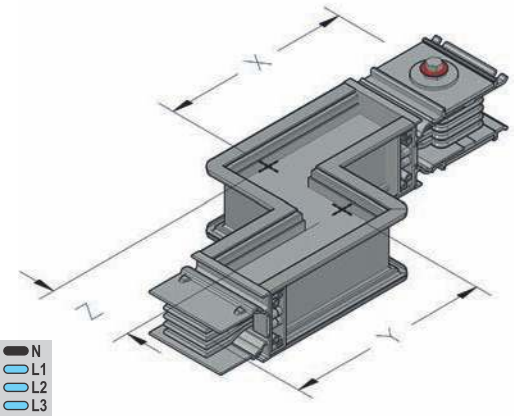
VERTICAL ELBOW Used in vertical mounting of busbar lengths in up and down turns.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	230	230	550A	230	230
500A	230	230	650A	230	230
630A	230	230	800A	230	230
800A	230	230	1000A	230	230
1000A	230	230	1250A	230	230
1250A	230	230	1350A	230	230
1350A	230	230	1600A	230	230
1600A	230	230	2000A	230	230
2000A	230	230	2250A	230	230
2500A	230	230	2500A	230	230
2500A	230	230	2000A	230	230
3000A	230	230	2500A	230	230
3200A	230	230	3300A	230	230
4000A	230	230	3600A	230	230
5000A	230	230	4000A	230	230
6300A	230	230	4250A	230	230
			5000A	230	230
			6300A	230	230

HORIZONTAL ELBOW Used for horizontal mounting of busbar lengths in right and left turns.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	250	250	550A	250	250
500A	250	250	650A	250	250
630A	250	250	800A	250	250
800A	257	257	1000A	257	257
1000A	270	270	1250A	265	265
1250A	285	285	1350A	270	270
1350A	292	292	1600A	277	277
1600A	310	310	2000A	292	292
2000A	330	330	2250A	310	310
2500A	355	355	2500A	330	330
2500A	363	363	2000A	308	308
3000A	393	393	2500A	323	323
3200A	413	413	3300A	363	363
4000A	453	453	3600A	378	378
5000A	503	503	4000A	393	393
6300A	578	578	4250A	413	413
			5000A	453	453
			6300A	516	516

Please call our company for special size modules.

Elbow Modules



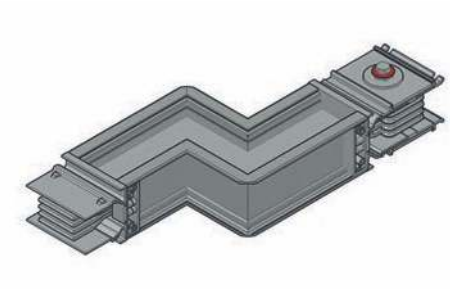


Double Elbow Horizontal Left (Combined Off-set)	YOL

SAMPLE ORDER

1000 A Aluminum,
Offset IP 55 4 Conductors

HP-KA105T2FYOL



Double Elbow Horizontal Right (Combined Off-set)	YOR

SAMPLE ORDER

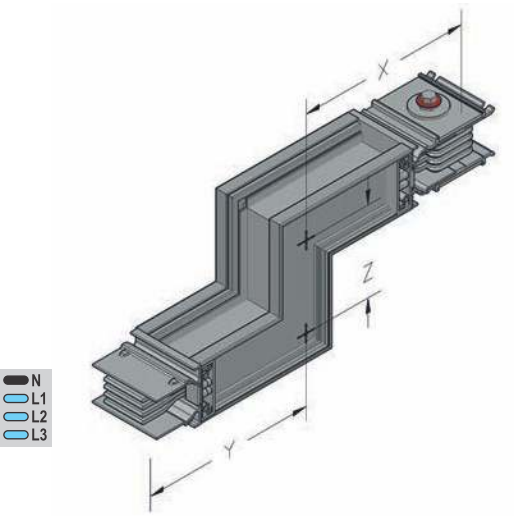
1600 A Aluminum,
Offset IP 55 4 Conductors

HP-KA165T2FYOR

DOUBLE HORIZONTAL ELBOW (OFF-SET)

Used in horizontal mounting of busbar lengths, on right and left protruding turns.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	250	250	202	550A	250	250	202
500A	250	250	202	650A	250	250	202
630A	250	250	202	800A	250	250	202
800A	257	257	217	1000A	257	257	217
1000A	270	270	242	1250A	265	265	232
1250A	285	285	272	1350A	270	270	242
1350A	292	292	287	1600A	277	277	257
1600A	310	310	322	2000A	292	292	287
2000A	330	330	362	2250A	310	310	322
2500A	355	355	412	2500A	330	330	362
2500A	363	363	429	2000A	308	308	318
3000A	393	393	489	2500A	323	323	348
3200A	413	413	529	3300A	363	363	428
4000A	453	453	609	3600A	378	378	458
5000A	503	503	706	4000A	393	393	488
6300A	578	578	857	4250A	413	413	528
				5000A	453	453	608
				6300A	516	516	735

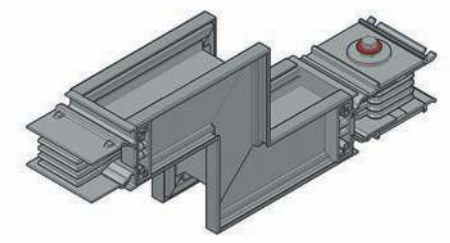


Double Vertical Elbow Up (Combined Off-set)	DOU

SAMPLE ORDER

2500 A Aluminum,
Offset IP 55 4 Conductors

HP-KA255T2FDOU



Double Vertical Elbow Down (Combined Off-set)	DOD

SAMPLE ORDER

3000 A Aluminum,
Offset IP 55 4 Conductors

HP-KA305T2FDOD

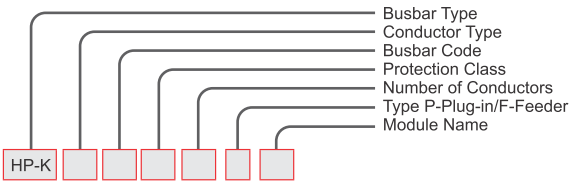
DOUBLE VERTICAL ELBOW (OFF-SET)

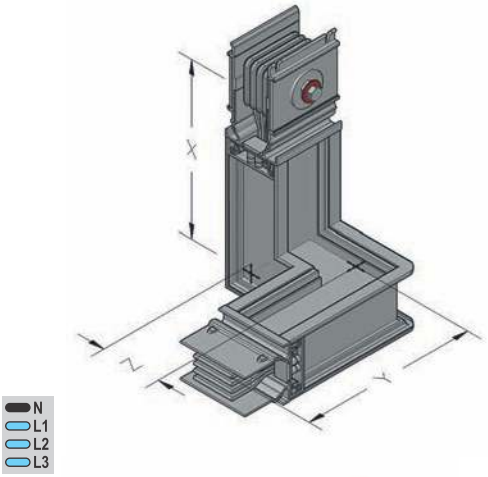
Used in vertical mounting of busbar lengths, more or less protruding turns.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	230	230	230	550A	230	230	230
500A	230	230	230	650A	230	230	230
630A	230	230	230	800A	230	230	230
800A	230	230	230	1000A	230	230	230
1000A	230	230	230	1250A	230	230	230
1250A	230	230	230	1350A	230	230	230
1350A	230	230	230	1600A	230	230	230
1600A	230	230	230	2000A	230	230	230
2000A	230	230	230	2250A	230	230	230
2500A	230	230	230	2500A	230	230	230
2500A	230	230	230	2000A	230	230	230
3000A	230	230	230	2500A	230	230	230
3200A	230	230	230	3300A	230	230	230
4000A	230	230	230	3600A	230	230	230
5000A	230	230	230	4000A	230	230	230
6300A	230	230	230	4250A	230	230	230
				5000A	230	230	230
				6300A	230	230	230

Please call our company for special size modules.

Elbow Modules





Left Up (Combined Off-set)	LUK

SAMPLE ORDER

1250 A Aluminum,
Combined Offset IP 55
4 Conductors
HP-KA125T2FLUK

RIGHT/LEFT UP COMBINED (OFF-SET)

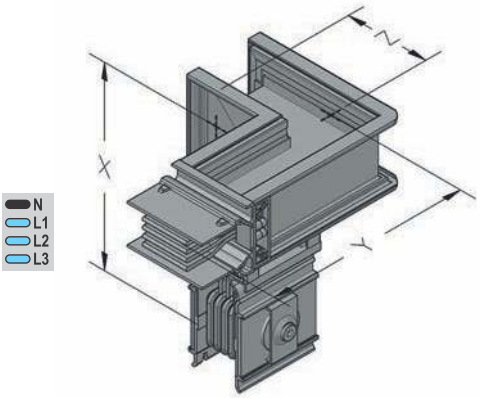
Used in horizontal mounting of busbar lengths, on right and left protruding turns.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	230	250	250	550A	230	250	250
500A	230	250	250	650A	230	250	250
630A	230	250	250	800A	230	250	250
800A	230	257	257	1000A	230	257	257
1000A	230	270	270	1250A	230	265	265
1250A	230	285	285	1350A	230	270	270
1350A	230	292	292	1600A	230	277	277
1600A	230	310	310	2000A	230	292	292
2000A	230	330	330	2250A	230	310	310
2500A	230	355	355	2500A	230	330	330
2500A	230	363	363	2000A	230	308	308
3000A	230	393	393	2500A	230	323	323
3200A	230	413	413	3300A	230	363	363
4000A	230	453	453	3600A	230	378	378
5000A	230	503	503	4000A	230	393	393
6300A	230	578	578	4250A	230	413	413
				5000A	230	453	453
				6300A	230	516	516

Right Up (Combined Off-set)	RUK

SAMPLE ORDER

1000 A Aluminum,
Combined Offset IP 55
4 Conductors
HP-KA105T2FRUK



Left Down (Combined Off-set)	LDK

SAMPLE ORDER

1600 A Aluminum,
Combined Offset IP 55
4 Conductors
HP-KA165T2FLDK

RIGHT/LEFT DOWN COMBINED (OFF-SET)

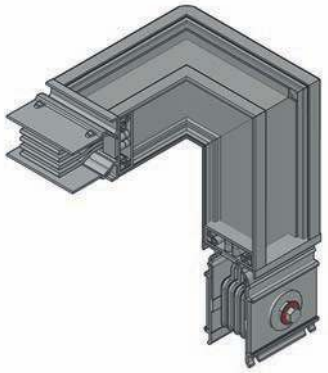
Used as right and left in the transformation of busbar lengths from horizontal to vertical.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	230	250	250	550A	230	250	250
500A	230	250	250	650A	230	250	250
630A	230	250	250	800A	230	250	250
800A	230	257	257	1000A	230	257	257
1000A	230	270	270	1250A	230	265	265
1250A	230	285	285	1350A	230	270	270
1350A	230	292	292	1600A	230	277	277
1600A	230	310	310	2000A	230	292	292
2000A	230	330	330	2250A	230	310	310
2500A	230	355	355	2500A	230	330	330
2500A	230	363	363	2000A	230	308	308
3000A	230	393	393	2500A	230	323	323
3200A	230	413	413	3300A	230	363	363
4000A	230	453	453	3600A	230	378	378
5000A	230	503	503	4000A	230	393	393
6300A	230	578	578	4250A	230	413	413
				5000A	230	453	453
				6300A	230	516	516

Right Down (Combined Off-set)	RDK

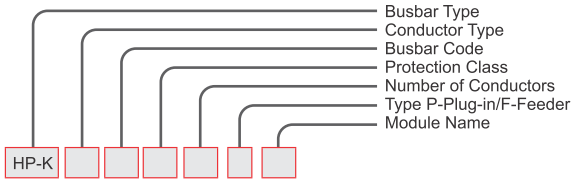
SAMPLE ORDER

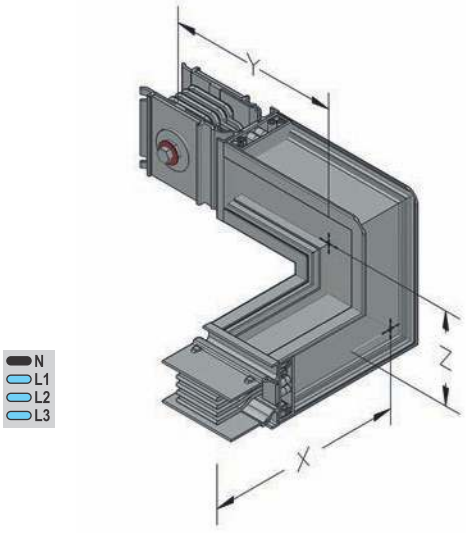
1350 A Aluminum,
Combined Offset IP 55
4 Conductors
HP-KA145T2FRDK



Please call our company for special size modules.

Elbow Modules



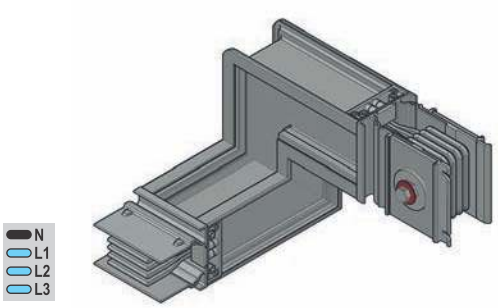


Up Left (Combined Off-set)	ULK

SAMPLE ORDER

2000 A Copper
Combined Offset IP 55
4 Conductors

HP-KC215T2FULK



Up Right (Combined Off-set)	URK

SAMPLE ORDER

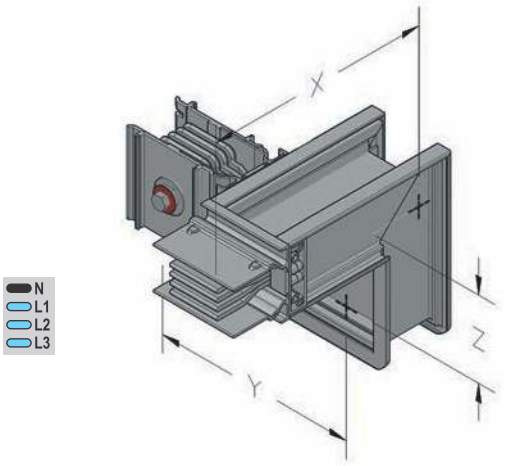
1250 A Copper
Combined Offset IP 55
4 Conductors

HP-KC135T2FURK

UP RIGHT/LEFT COMBINED (OFF-SET)

Used as right and left in the transformation of busbar lengths from horizontal to vertical.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	230	250	250	550A	230	250	250
500A	230	250	250	650A	230	250	250
630A	230	250	250	800A	230	250	250
800A	230	257	257	1000A	230	257	257
1000A	230	270	270	1250A	230	265	265
1250A	230	285	285	1350A	230	270	270
1350A	230	292	292	1600A	230	277	277
1600A	230	310	310	2000A	230	292	292
2000A	230	330	330	2250A	230	310	310
2500A	230	355	355	2500A	230	330	330
2500A	230	363	363	2000A	230	308	308
3000A	230	393	393	2500A	230	323	323
3200A	230	413	413	3300A	230	363	363
4000A	230	453	453	3600A	230	378	378
5000A	230	503	503	4000A	230	393	393
6300A	230	578	578	4250A	230	413	413
				5000A	230	453	453
				6300A	230	516	516



Down Left (Combined Off-set)	DLK

SAMPLE ORDER

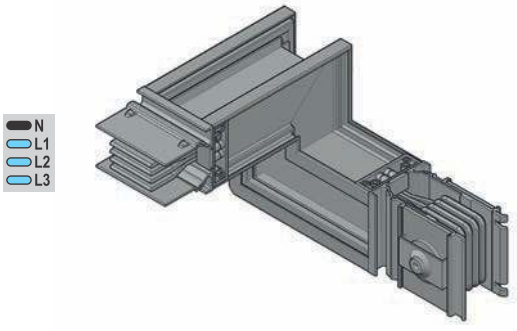
1600 A Copper
Combined Offset IP 55
4 Conductors

HP-KC175T2FDLK

DOWN RIGHT/LEFT COMBINED (OFF-SET)

Used as right and left in the transformation of busbar lengths from horizontal to vertical.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	230	250	250	550A	230	250	250
500A	230	250	250	650A	230	250	250
630A	230	250	250	800A	230	250	250
800A	230	257	257	1000A	230	257	257
1000A	230	270	270	1250A	230	265	265
1250A	230	285	285	1350A	230	270	270
1350A	230	292	292	1600A	230	277	277
1600A	230	310	310	2000A	230	292	292
2000A	230	330	330	2250A	230	310	310
2500A	230	355	355	2500A	230	330	330
2500A	230	363	363	2000A	230	308	308
3000A	230	393	393	2500A	230	323	323
3200A	230	413	413	3300A	230	363	363
4000A	230	453	453	3600A	230	378	378
5000A	230	503	503	4000A	230	393	393
6300A	230	578	578	4250A	230	413	413
				5000A	230	453	453
				6300A	230	516	516



Down Right (Combined Off-set)	DRK

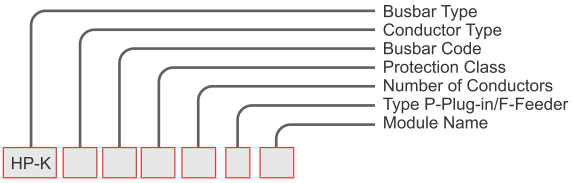
SAMPLE ORDER

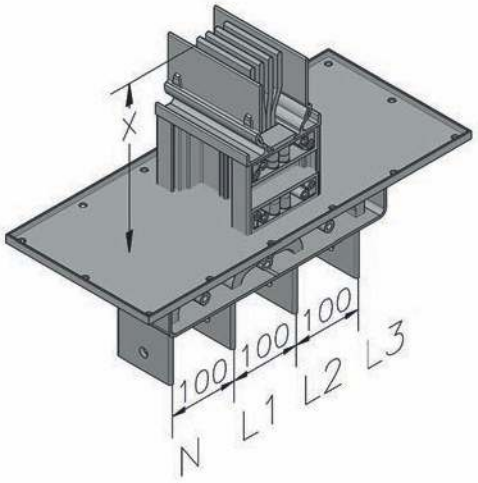
1250 A Aluminum,
Combined Offset IP 55
4 Conductors

HP-KA125T2FDRK

Please call our company for special size modules.

Panel Modules





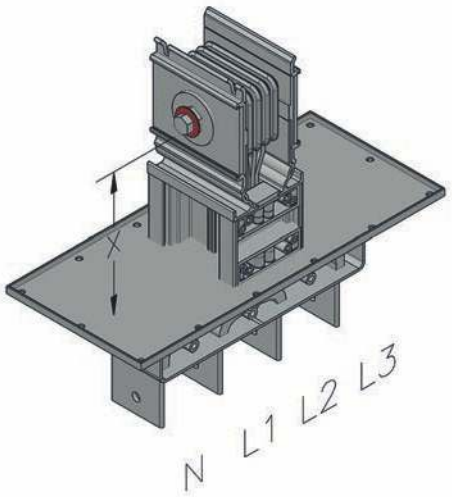
Vertical Panel Module Panel Input	PME

SAMPLE ORDER

1000 A Aluminum,
Panel Module IP 55
4 Conductors

HP-KA105T2FPME

VERTICAL PANEL MODULE			
Used to connect flat lengths to the panel.			
(AL)		(CU)	
AMR.X	mmAMR.X mm		
400A	220	550A	220
500A	220	650A	220
630A	220	800A	220
800A	220	1000A	220
1000A	220	1250A	220
1250A	220	1350A	220
1350A	220	1600A	220
1600A	220	2000A	220
2000A	220	2250A	220
2500A	220	2500A	220
2500A	220	2000A	220
3000A	220	2500A	220
3200A	220	3300A	220
4000A	220	3600A	220
5000A	220	4000A	220
6300A	220	4250A	220
		5000A	220
		6300A	220



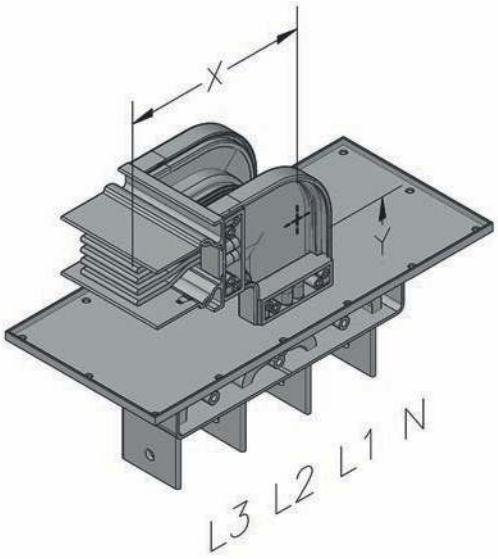
Vertical Panel Module Panel Output	PMD

SAMPLE ORDER

1250 A Aluminum,
Panel Module IP 55 4
Conductors

HP-KA125T2FPMD

UP PANEL MODULE					
Used to connect flat lengths to the panel.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	230	230	550A	230	230
500A	230	230	650A	230	230
630A	230	230	800A	230	230
800A	230	230	1000A	230	230
1000A	230	230	1250A	230	230
1250A	230	230	1350A	230	230
1350A	230	230	1600A	230	230
1600A	230	230	2000A	230	230
2000A	230	230	2250A	230	230
2500A	230	230	2500A	230	230
2500A	230	230	2000A	230	230
3000A	230	230	2500A	230	230
3200A	230	230	3300A	230	230
4000A	230	230	3600A	230	230
5000A	230	230	4000A	230	230
6300A	230	230	4250A	230	230
			5000A	230	230
			6300A	230	230



Vertical Panel Module Up Panel Input	PM1

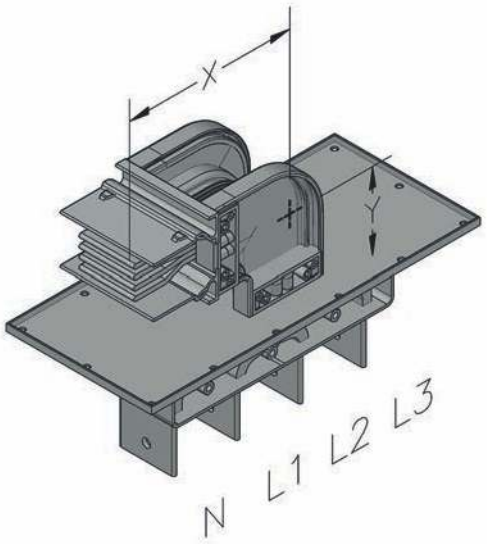
SAMPLE ORDER

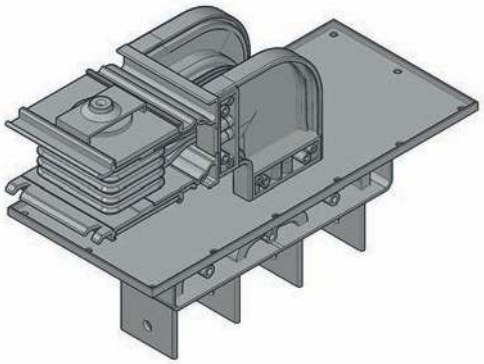
800 A Copper Panel
Module IP 55 4
Conductors

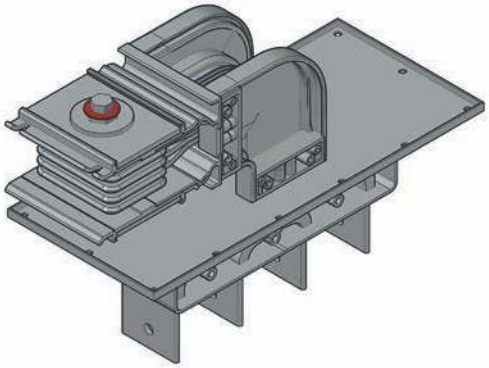
HP-KC075T2FPM1

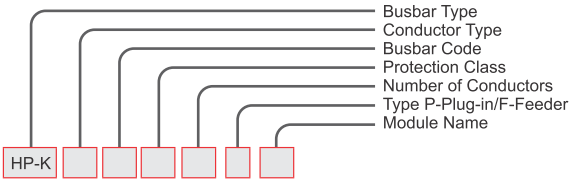
Please call our company for special size modules.

Panel Modules









Vertical Panel Module Down Panel	PM2

SAMPLE ORDER

3200 A Aluminum,
Panel Module IP 55
4 Conductors

HP-KA325T2FPM2

Vertical Panel Module Up Panel	PM3

SAMPLE ORDER

4000 A Aluminum,
Panel Module IP 55
4 Conductors

HP-KA405T2FPM3

Vertical Panel Module Down Panel	PM4

SAMPLE ORDER

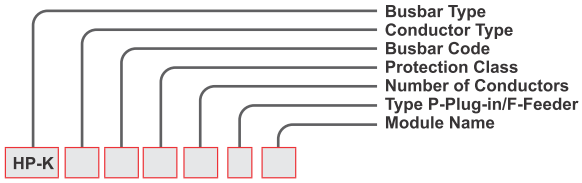
1000 A Aluminum,
Panel Module IP 55
4 Conductors

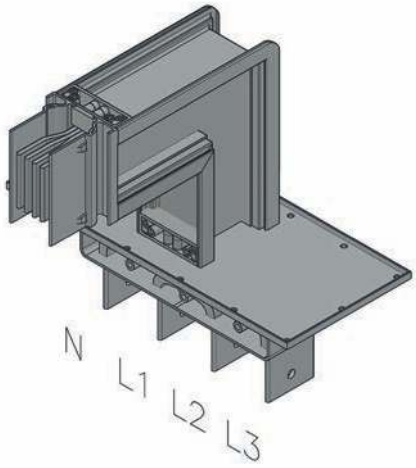
HP-KA105T2FPM4

DOWN PANEL MODULE					
Used to connect flat lengths to the panel.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	230	230	550A	230	230
500A	230	230	650A	230	230
630A	230	230	800A	230	230
800A	230	230	1000A	230	230
1000A	230	230	1250A	230	230
1250A	230	230	1350A	230	230
1350A	230	230	1600A	230	230
1600A	230	230	2000A	230	230
2000A	230	230	2250A	230	230
2500A	230	230	2500A	230	230
2500A	230	230	2000A	230	230
3000A	230	230	2500A	230	230
3200A	230	230	3300A	230	230
4000A	230	230	3600A	230	230
5000A	230	230	4000A	230	230
6300A	230	230	4250A	230	230
			5000A	230	230
			6300A	230	230

Please call our company for special size modules.

Panel Modules



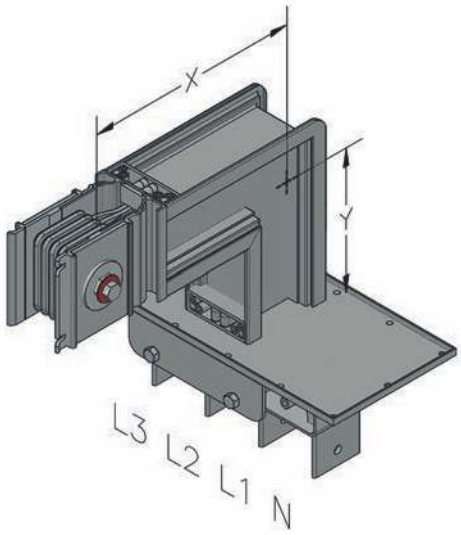


Horizontal Panel Module Right Panel	PM5

SAMPLE ORDER

2500 A Copper Panel Module IP 55 4 Conductors

HP-KA275T2FPM5

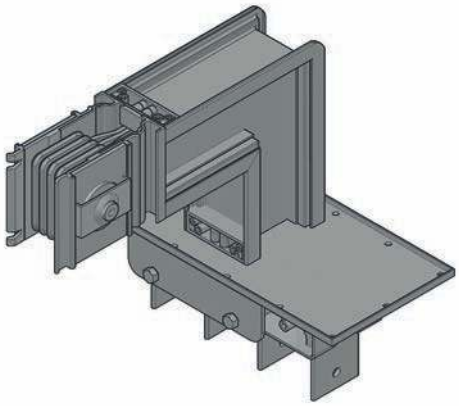


Horizontal Panel Module Left Panel	PM6

SAMPLE ORDER

1600 A Copper Panel Module IP 55 4 Conductors

HP-KC175T2FPM6



Horizontal Panel Module Right Panel	PM7

SAMPLE ORDER

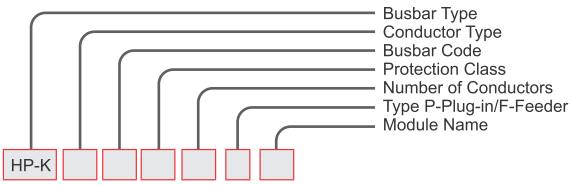
800 A Copper Panel Module IP 55 4 Conductors

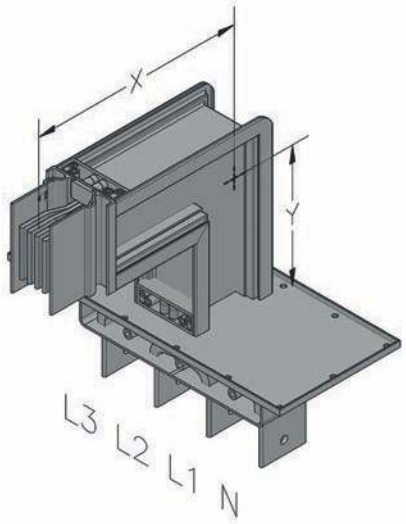
HP-KC075T2FPM7

HORIZONTAL PANEL MODULE (RIGHT/LEFT)					
Used to connect flat lengths to the Panel.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	250	250	550A	250	250
500A	250	250	650A	250	250
630A	250	250	800A	250	250
800A	257	257	1000A	257	257
1000A	270	270	1250A	265	265
1250A	285	285	1350A	270	270
1350A	292	292	1600A	277	277
1600A	310	310	2000A	292	292
2000A	330	330	2250A	310	310
2500A	355	355	2500A	330	330
2500A	363	363	2000A	308	308
3000A	393	393	2500A	323	323
3200A	413	413	3300A	363	363
4000A	453	453	3600A	378	378
5000A	503	503	4000A	393	393
6300A	578	578	4250A	413	413
			5000A	453	453
			6300A	516	516

Please call our company for special size modules.

Panel Modules



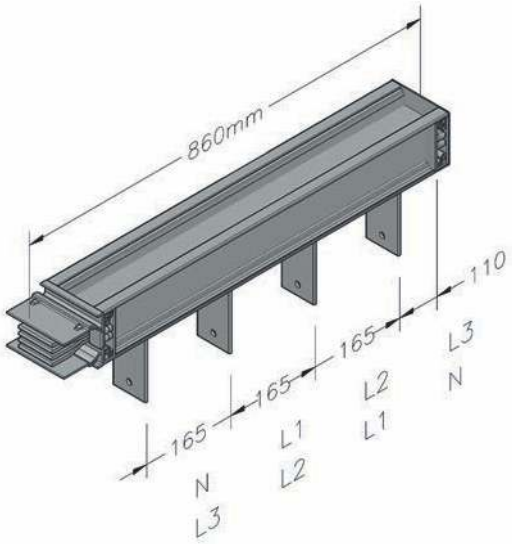


Horizontal Panel Module Left Panel	PM8

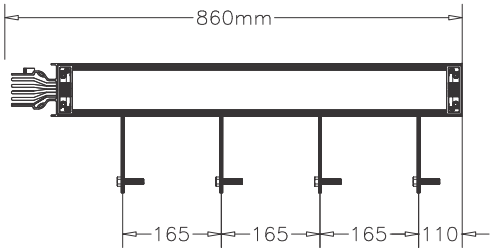
SAMPLE ORDER

2000 A Aluminum
Panel Module IP 55
4 Conductors

HP-KA205T2FPM8



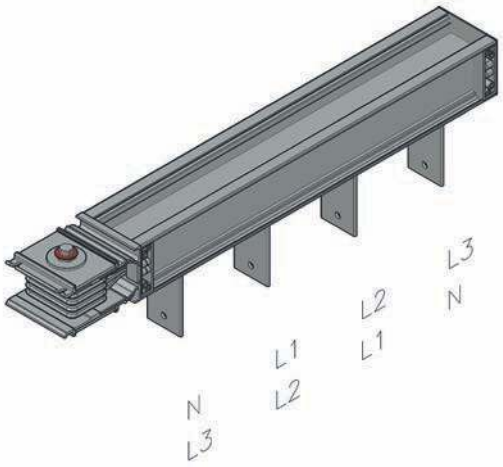
Horizontal Panel Module	YP1



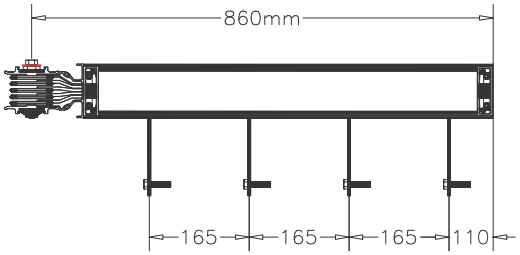
SAMPLE ORDER

3300 A Copper Panel
Module IP 55 4
Conductors

HP-KC335T2FYP1



Horizontal Panel Module	YP2



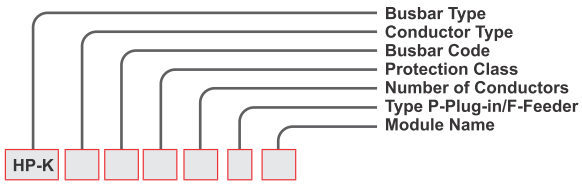
SAMPLE ORDER

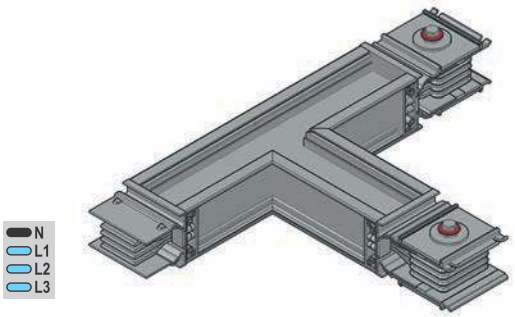
4000 A Copper
Panel Module IP 55
4 Conductors

HP-KC415T2FYP2

Please call our company for special size modules.

TEE Units



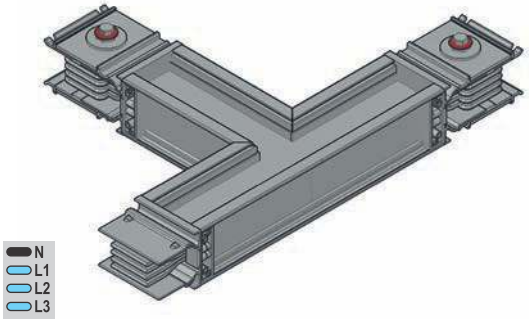


Right (T) Module	RT

SAMPLE ORDER

1350 A Copper Te Module IP 55 4 Conductors

HP-KC155T2FRT

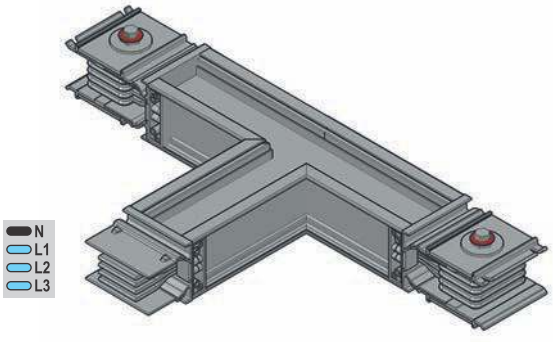


Left (T) Module	LT

SAMPLE ORDER

1000 A Aluminum Te Module IP 55 4 Conductors

HP-KA105T2FLT



Center (T) Module	OT

SAMPLE ORDER

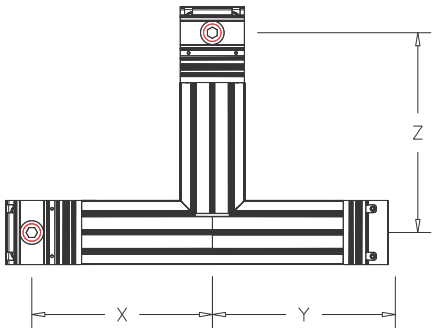
1250 A Aluminum Te Module IP 55 4 Conductors

HP-KA125T2FOT

HORIZONTAL (TE) RIGHT/LEFT

Used to take the horizontal right and left line (TE) of the busbar lengths.

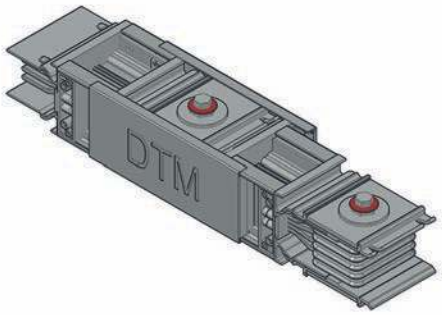
(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	250	250	250	550A	250	250	250
500A	250	250	250	650A	250	250	250
630A	250	250	250	800A	250	250	250
800A	257	257	257	1000A	257	257	257
1000A	270	270	270	1250A	265	265	265
1250A	285	285	285	1350A	270	270	270
1350A	292	292	292	1600A	277	277	277
1600A	310	310	310	2000A	292	292	292
2000A	330	330	330	2250A	310	310	310
2500A	355	355	355	2500A	330	330	330
2500A	363	363	363	2000A	308	308	308
3000A	393	393	393	2500A	323	323	323
3200A	413	413	413	3300A	363	363	363
4000A	453	453	453	3600A	378	378	378
5000A	503	503	503	4000A	393	393	393
6300A	578	578	578	4250A	413	413	413
				5000A	453	453	453
				6300A	516	516	516

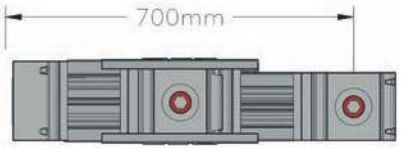


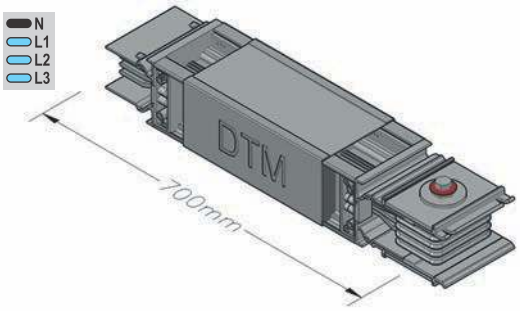
HP-K

Please call our company for special size modules.

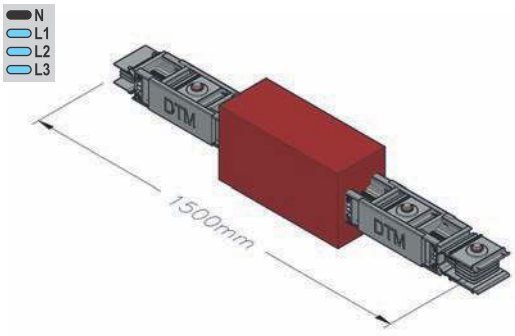
Fitting Units

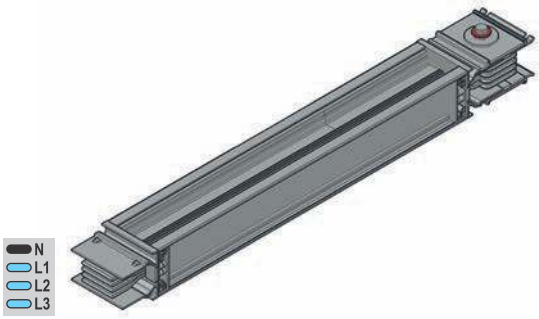


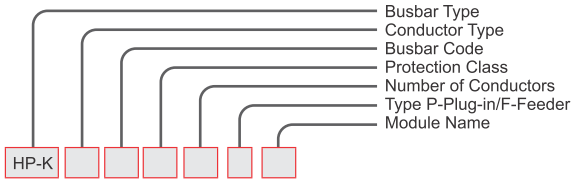




Horizontal Expansion Info:
Used every 40 meters in long horizontal lines.







Reduction Module 700 mm	RD

SAMPLE ORDER
800 A Aluminum,
Reducer IP 55
4 Conductors
HP-KA085T2FRD

Expansion Module 700 mm	G

SAMPLE ORDER
800 A Aluminum,
Expansion IP 55 4 Conductors
HP-KA085T2FG

Horizontal Expansion Module 1500 mm	YD

SAMPLE ORDER
1600 A Aluminum,
Expansion IP 55 4 Conductors
HP-KA165T2FYD

Phase Transposition Module 1500 mm	CM

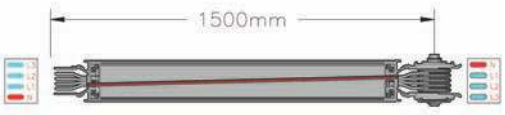
SAMPLE ORDER
1000 A Aluminum,
Cross IP 55 4 Conductors
HP-KA105T2FCM

HP-K AL CONDUCTOR

CRNT	Reduced Current Busbar Code													
	04	05	06	08	10	12	14	16	20	25	26	30	32	40
500	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
630	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
800	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
1250	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
1350	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-
1600	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-
2500	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-
3000	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-
3200	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-
4000	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	-
5000	-	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
6300	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓

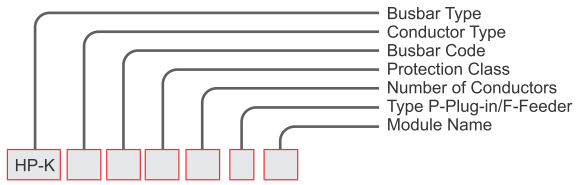
HP-K CU CONDUCTOR

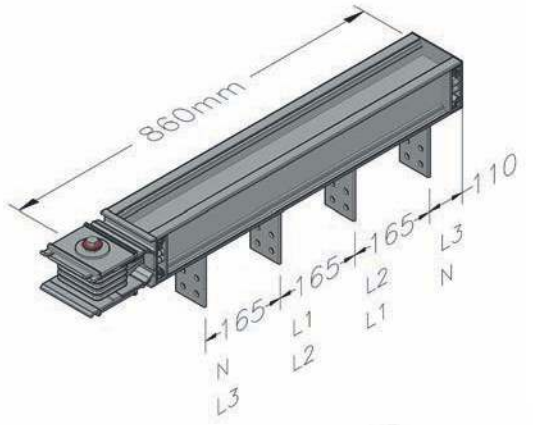
CRNT	Reduced Current Busbar Code															
	05	06	07	09	13	15	17	21	23	24	22	27	33	36	41	42	51
650	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1250	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
1350	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
1600	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
2250	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-
2500	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	-	-	-	-
3300	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-
3600	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	-	-	-	-
4000	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-
4250	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-
5000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-
6300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓



Please call our company for special size modules.

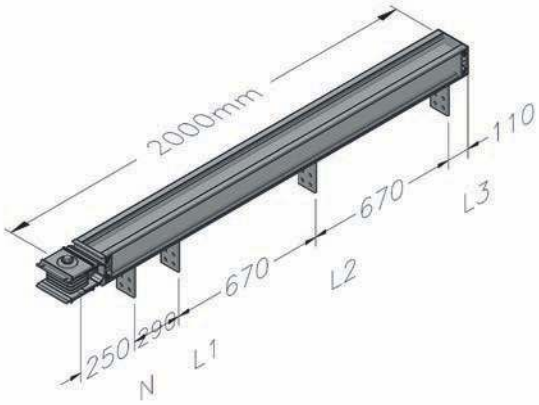
Transformer Modules





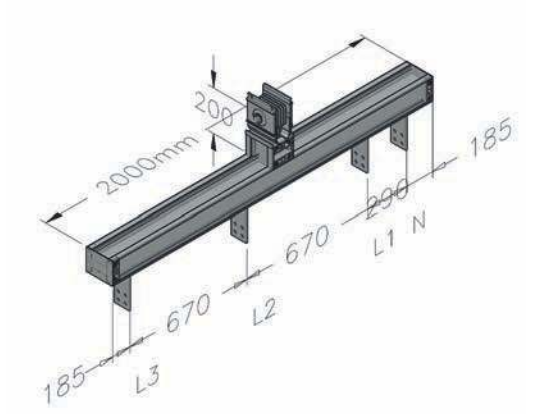
Horizontal Transformer Module	TMH

SAMPLE ORDER
4000 A Aluminum,
Transformer Module IP 55
4 Conductors
HP-KA405T2FTMH



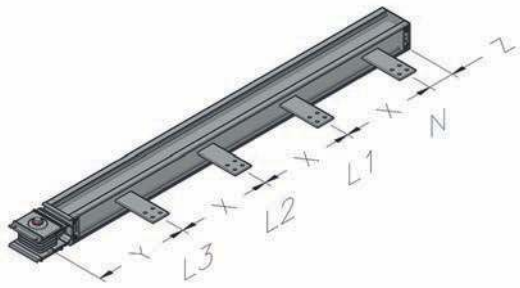
Horizontal Transformer Module	TMF

SAMPLE ORDER
2000 A Aluminum,
Transformer Module IP 55
4 Conductors
HP-KA205T2FTMF



Center Transformer Module	TMO

SAMPLE ORDER
1600 A Aluminum,
Transformer Module IP 55
4 Conductors
HP-KA165T2FTMO



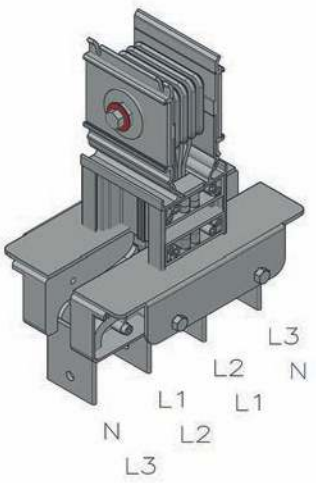
Vertical Transformer Module	TMK

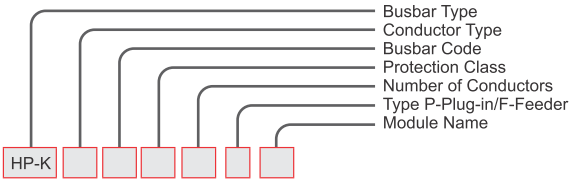
SAMPLE ORDER
1000 A Aluminum,
Transformer Module IP 55
4 Conductors
HP-KA105T2FTMK

VERTICAL TRANSFORMER MODULE							
(AL)				(CU)			
AMR.	Y mm	X mm	Z mm	AMR.	Y mm	X mm	Z mm
400A	264	86	124	550A	264	86	124
500A	266	91	126	650A	266	91	126
630A	271	101	131	800A	271	101	131
800A	279	116	139	1000A	279	116	139
1000A	291	141	151	1250A	286	131	146
1250A	306	171	166	1350A	291	141	151
1350A	314	186	174	1600A	299	156	159
1600A	331	221	191	2000A	314	186	174
2000A	351	261	211	2250A	331	221	191
2500A	376	311	236	2500A	351	261	211
2500A	306	171	166	2000A	279	116	139
3000A	321	201	181	2500A	286	131	146
3200A	331	221	191	3300A	306	171	166
4000A	351	261	211	3600A	314	186	174
5000A	376	311	236	4000A	321	201	181
				5000A	351	261	211

Please call our company for special size modules.

Transformer Modules





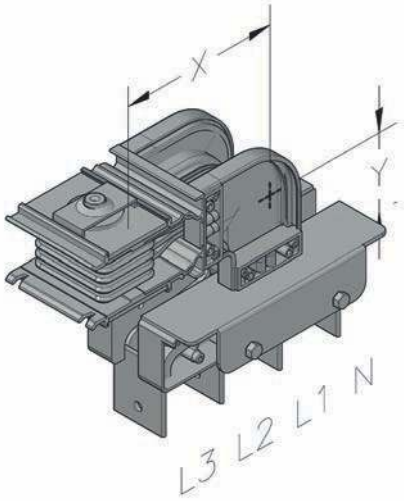
Vertical Transformer Module	TR1

SAMPLE ORDER

1000 A Aluminum,
Transformer Module IP 55
4 Conductors

HP-KA105T2FTR1

VERTICAL TRANSFORMER MODULE			
Used to connect flat lengths to the panel.			
(AL)		(CU)	
AMR.	X mm	AMR.	X mm
400A	220	550A	220
500A	220	650A	220
630A	220	800A	220
800A	220	1000A	220
1000A	220	1250A	220
1250A	220	1350A	220
1350A	220	1600A	220
1600A	220	2000A	220
2000A	220	2250A	220
2500A	220	2500A	220
2500A	220	2000A	220
3000A	220	2500A	220
3200A	220	3300A	220
4000A	220	3600A	220
5000A	220	4000A	220
6300A	220	4250A	220
		5000A	220
		6300A	220



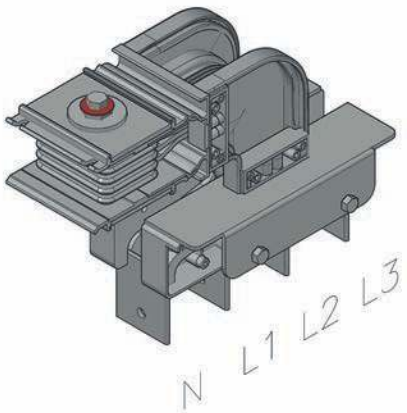
Up Transformer Module	TRU

SAMPLE ORDER

2500 A Aluminum,
Transformer Module IP 55
4 Conductors

HP-KA265T2FTRU

UP/DOWN TRANSFORMER MODULE					
Used to connect flat lengths to the transformer.					
(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	230	230	550A	230	230
500A	230	230	650A	230	230
630A	230	230	800A	230	230
800A	230	230	1000A	230	230
1000A	230	230	1250A	230	230
1250A	230	230	1350A	230	230
1350A	230	230	1600A	230	230
1600A	230	230	2000A	230	230
2000A	230	230	2250A	230	230
2500A	230	230	2500A	230	230
2500A	230	230	2000A	230	230
3000A	230	230	2500A	230	230
3200A	230	230	3300A	230	230
4000A	230	230	3600A	230	230
5000A	230	230	4000A	230	230
6300A	230	230	4250A	230	230
			5000A	230	230
			6300A	230	230



Down Transformer Module	TRD

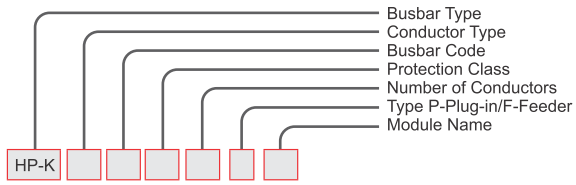
SAMPLE ORDER

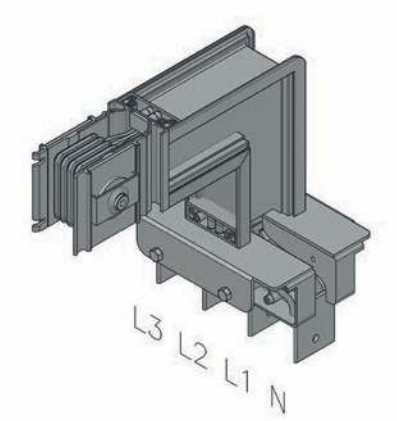
2000 A Aluminum,
Transformer Module IP 55
4 Conductors

HP-KA205T2FTRD

Please call our company for special size modules.

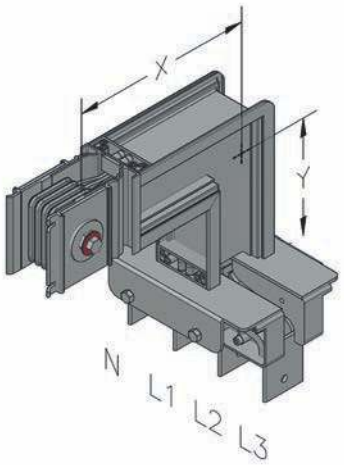
Transformer Modules





Right Transformer Module	TRR

SAMPLE ORDER
3300 A Copper
Transformer Module IP 55
4 Conductors
HP-KC335T2FTRR

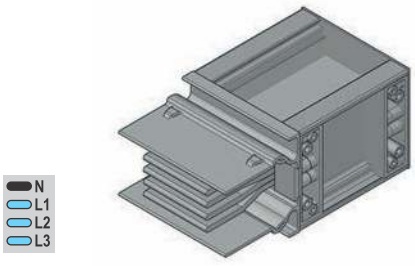


Left Transformer Module	TRL

SAMPLE ORDER
1350 A Aluminum,
Transformer Module IP 55
4 Conductors
HP-KA145T2FTRL

RIGHT/LEFT TRANSFORMER MODULE
Used to connect flat lengths to the transformer.

(AL)			(CU)		
AMR.	X mm	Y mm	AMR.	X mm	Y mm
400A	250	250	550A	250	250
500A	250	250	650A	250	250
630A	250	250	800A	250	250
800A	257	257	1000A	257	257
1000A	270	270	1250A	265	265
1250A	285	285	1350A	270	270
1350A	292	292	1600A	277	277
1600A	310	310	2000A	292	292
2000A	330	330	2250A	310	310
2500A	355	355	2500A	330	330
2500A	363	363	2000A	308	308
3000A	393	393	2500A	323	323
3200A	413	413	3300A	363	363
4000A	453	453	3600A	378	378
5000A	503	503	4000A	393	393
6300A	578	578	4250A	413	413
			5000A	453	453
			6300A	516	516

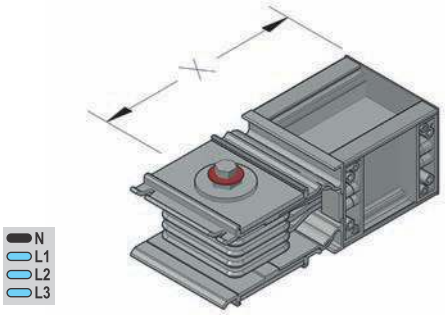


Termination	S1

SAMPLE ORDER
800 A Aluminum,
Termination Module 55 4 Conductors
HP-KA085T2FS1

TERMINATION
Used to close the line endings.

(AL)		(CU)	
AMR.	X mm	AMR.	X mm
400A	215	550A	215
500A	215	650A	215
630A	215	800A	215
800A	215	1000A	215
1000A	215	1250A	215
1250A	215	1350A	215
1350A	215	1600A	215
1600A	215	2000A	215
2000A	215	2250A	215
2500A	215	2500A	215
2500A	215	2000A	215
3000A	215	2500A	215
3200A	215	3300A	215
4000A	215	3600A	215
5000A	215	4000A	215
6300A	215	4250A	215
		5000A	215
		6300A	215



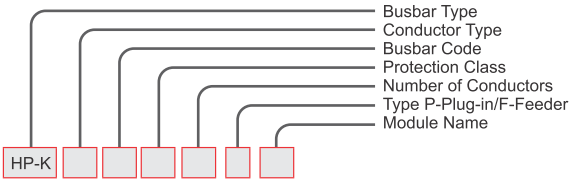
Termination	S2

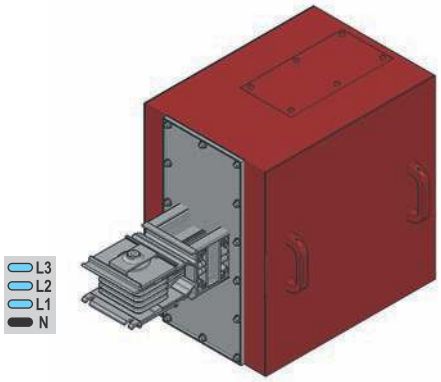
SAMPLE ORDER
1000 A Aluminum,
Termination Module IP 55
4 Conductors
HP-KA105T2FS2

Please call our company for special size modules.

HP-K

Feed Boxes



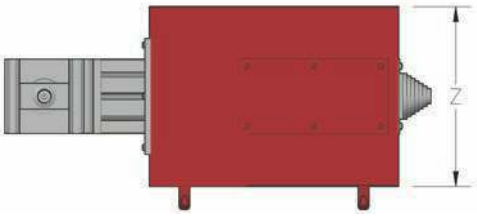


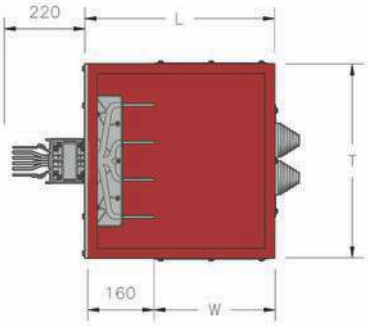
Start Feed Box	BM1

SAMPLE ORDER

1350 A Aluminum,
Feeder IP 55 4 Conductors

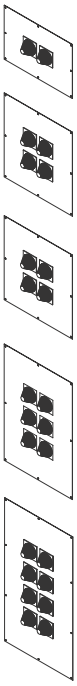
HP-KA145T2R1BM1

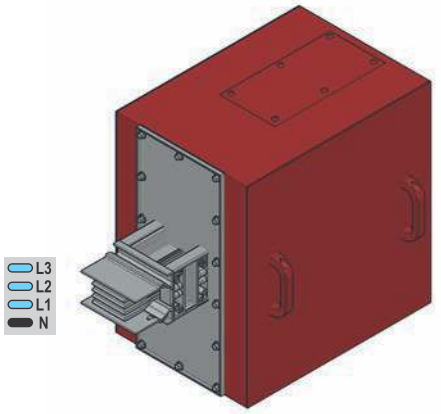




FITTING PLATES			
(AL)		(CU)	
AMR.	Type	AMR.	Type
400A	R1	550A	R1
500A	R1	650A	R1
630A	R1	800A	R1
800A	R1	1000A	R1
1000A	R1	1250A	R1
1250A	R1	1350A	R1
1350A	R2	1600A	R2
1600A	R2	2000A	R2
2000A	R2	2250A	R2
2500A	R3	2500A	R2
2500A	R3	2000A	R2
3000A	R3	2500A	R3
3200A	R3	3300A	R3
4000A	R3	3600A	R3
5000A	R3	4000A	R3
6300A	R4	4250A	R3
		5000A	R3
		6300A	R4

Type





End Feed Box	BM2

SAMPLE ORDER

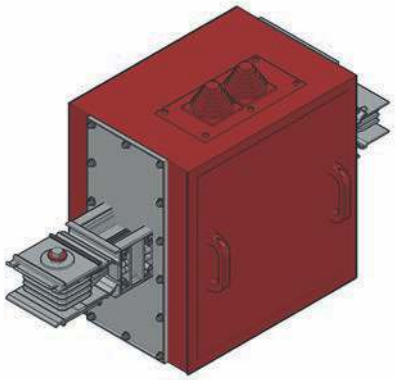
800 A Aluminum,
Feeder IP 55 4 Conductors

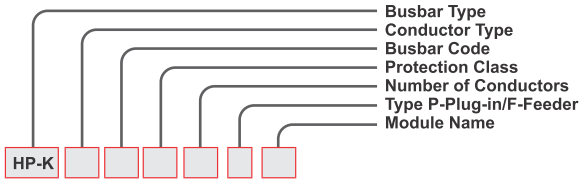
HP-KA085T2R1BM2

UP/DOWN FEED MODULE										
(AL)					(CU)					
AMR.	L mm	T mm	Z mm	W mm	AMR.	L mm	T mm	Z mm	W mm
400A	520	540	360	360	550A	520	540	360	360
500A	520	540	360	360	650A	520	540	360	360
630A	520	540	360	360	800A	520	540	360	360
800A	520	540	360	360	1000A	520	540	360	360
1000A	520	540	360	360	1250A	520	540	360	360
1250A	520	540	360	360	1350A	520	540	360	360
1350A	520	540	560	360	1600A	520	540	360	360
1600A	520	540	560	360	2000A	520	540	560	360
2000A	520	540	560	360	2250A	520	540	560	360
2500A	520	540	560	360	2500A	520	540	560	360
2500A	520	540	560	360	2000A	520	540	560	360
3000A	520	540	560	360	2500A	520	540	560	360
3200A	720	540	780	560	3300A	520	540	560	360
4000A	720	540	780	560	3600A	720	540	560	360
5000A	720	540	780	560	4000A	720	540	780	560
6300A	720	540	1110	560	4250A	720	540	780	560
					5000A	720	540	780	560
					6300A	720	540	960	560

Please call our company for special sizes.

Center Feed Units



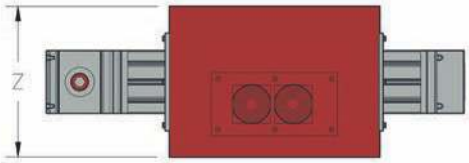


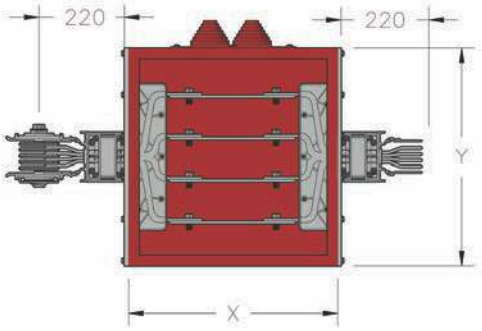
Center Feed Box	OB

SAMPLE ORDER

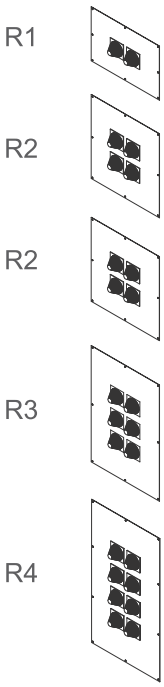
800 A Aluminum,
Feeder IP 55 4 Conductors

HP-KA085T2R1OB





Type

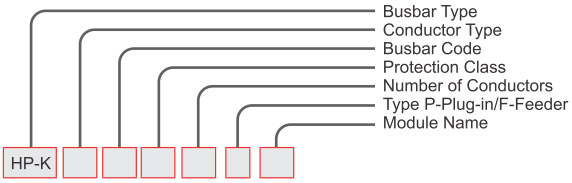


FITTING PLATES			
(AL)		(CU)	
AMR.	Type	AMR.	Type
400A	R1	550A	R1
500A	R1	650A	R1
630A	R1	800A	R1
800A	R1	1000A	R1
1000A	R1	1250A	R1
1250A	R1	1350A	R1
1350A	R2	1600A	R1
1600A	R2	2000A	R2
2000A	R2	2250A	R2
2500A	R3	2500A	R2
2500A	R3	2000A	R2
3000A	R3	2500A	R2
3200A	R3	3300A	R3
4000A	R3	3600A	R3
5000A	R3	4000A	R3
6300A	R4	4250A	R3
		5000A	R3
		6300A	R4

CENTER FEEDER							
(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	520	540	360	550A	520	540	360
500A	520	540	360	650A	520	540	360
630A	520	540	360	800A	520	540	360
800A	520	540	360	1000A	520	540	360
1000A	520	540	360	1250A	520	540	360
1250A	520	540	360	1350A	520	540	360
1350A	520	540	560	1600A	520	540	360
1600A	520	540	560	2000A	520	540	560
2000A	520	540	560	2250A	520	540	560
2500A	520	540	560	2500A	520	540	560
2500A	520	540	560	2000A	520	540	560
3000A	520	540	560	2500A	520	540	560
3200A	720	540	780	3300A	520	540	560
4000A	720	540	780	3600A	720	540	560
5000A	720	540	780	4000A	720	540	780
6300A	720	540	1110	4250A	720	540	780
				5000A	720	540	780
				6300A	720	540	960

Please call our company for special size modules.

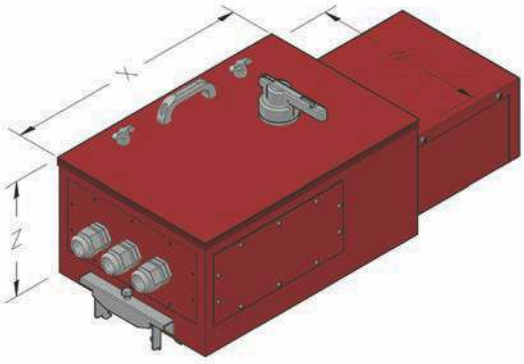
Tap-Off Box Compact Switch Bolt-On Type

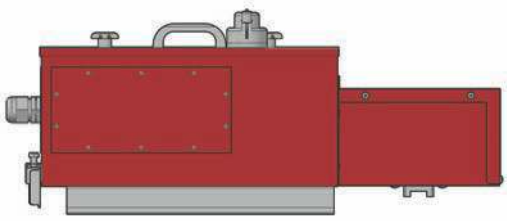


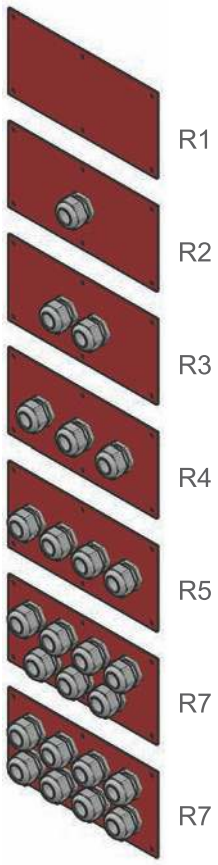
Compact Switch Bolt-on	HPB

SAMPLE ORDER

250 A Output Box Empty
IP 55 4 Conductors
HPB255T2R3B



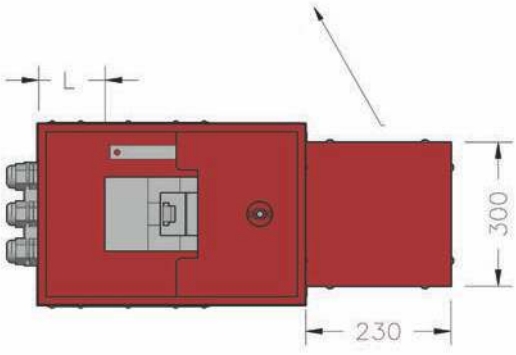




SWITCH TYPE CODE	
SWITCH	EMPTY
S	B

FITTING PLATES	
Type	CODE
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X8	R5
RG48X3	R6
RG36X4	R7

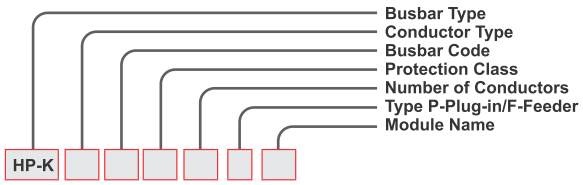
Info:
In addition to the DTM Bolt-On Tap off box on the additional block, the box assembly should be done on site according to the technical diagram.



Amp.	Box Code	X mm	W mm	Z mm	L
160	HPB16	560	385	260	150
250	HPB25	560	385	260	150
400	HPB40	560	385	260	200
630	HPB63	560	385	260	200
800	HPB80	710	425	260	250
1000	HPB10	710	425	260	250

Please contact our company for non-standard boxes.

Tap-Off Box Bolt-On with DTM Mechanism

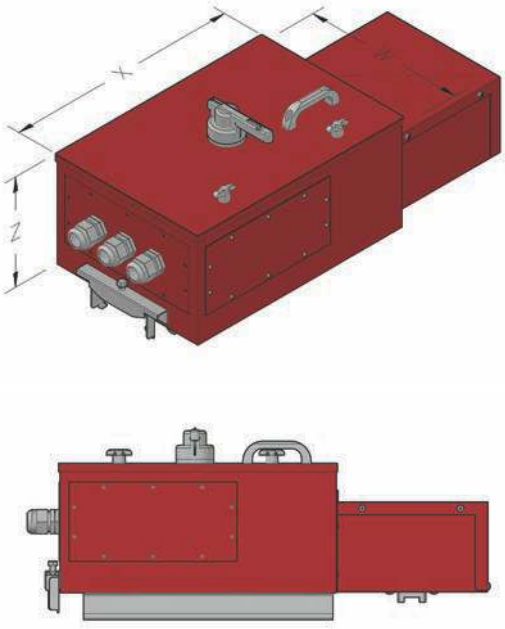


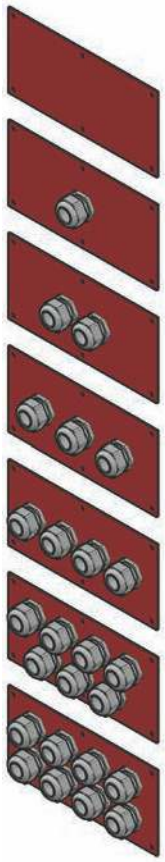
Bolt-On with Mechanism	HPM

SAMPLE ORDER

400 A Tap-Off Box Empty
IP 55 4 Conductors

HPM405T2R4B



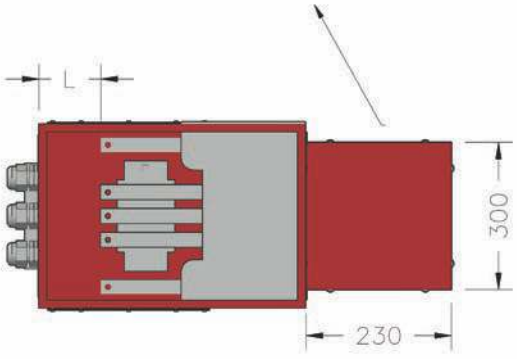


SWITCH TYPE CODE	
SWITCH	EMPTY
S	B

FITTING PLATES	
Type	CODE
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X8	R5
RG48X3	R6
RG36X4	R7

Info:
In addition to the DTM Bolt-on TapOff box on the additional block, the box assembly must be done on site according to the technical diagram.

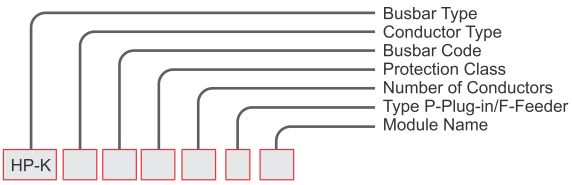
Amp.	Box Code	X mm	W mm	Z mm	L
160	HPMB16	560	385	260	150
250	HPMB25	560	385	260	150
400	HPMB40	560	385	260	200
630	HPMB63	560	385	260	200



Info:
DTM Bolt-on tap off boxes cannot be mechanically attached to and removed from the busbar in the "ON" position. When the boxes are in the "OFF" position, the energy of the box is cut by a special mechanism, the same mechanism energizes the box in the "ON" position.
Boxes with standard mechanism are delivered empty. Before the boxes are attached to the busbar, a fused load breaker, fuse group or similar protection unit must be placed inside the boxes.

Please contact our company for non-standard boxes.

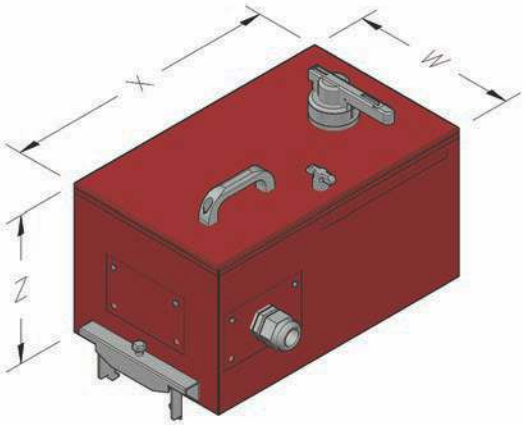
Tap-Off Box Compact Switch Plug-In

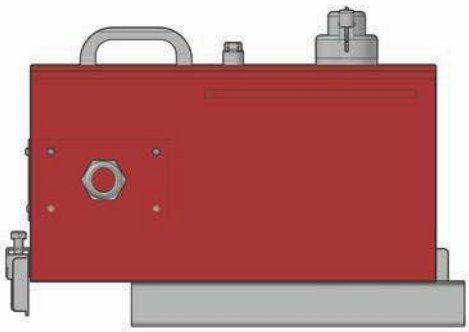


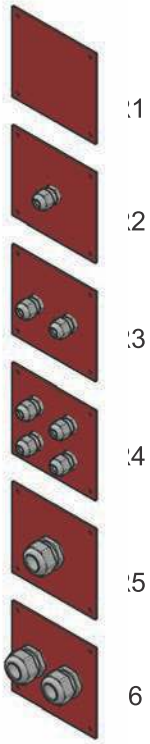
Compact Switch Plug-in	HPS

SAMPLE ORDER

630 A Tap-Off Box Switch
IP 55 4 Conductors
HPS635T2R5S

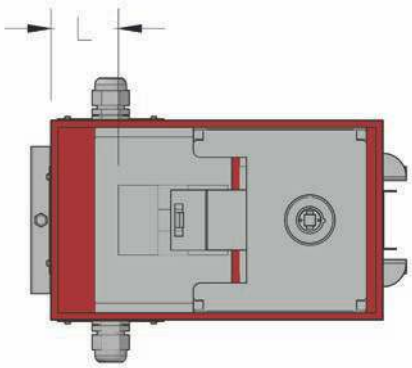






SWITCH TYPE CODE	
SWITCH	EMPTY
S	B

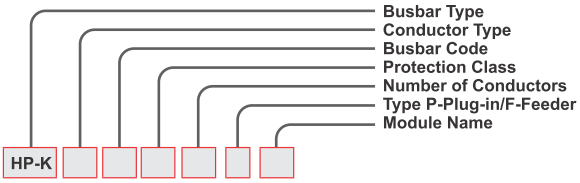
FITTING PLATES	
Type	CODE
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X1	R5
RG48X2	R6



Amp.	Box Code	X mm	W mm	Z mm	L
160	HPS16	530	300	220	155
250	HPS25	530	300	220	155
400	HPS40	710	300	220	260
630	HPS63	710	300	220	260

Please contact our company for non-standard boxes.

Tap-Off Box with DTM Mechanism Plug-In

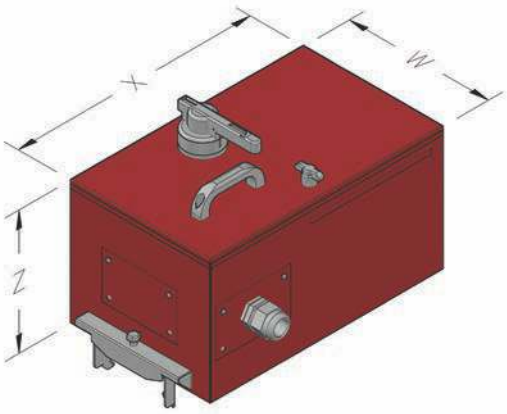


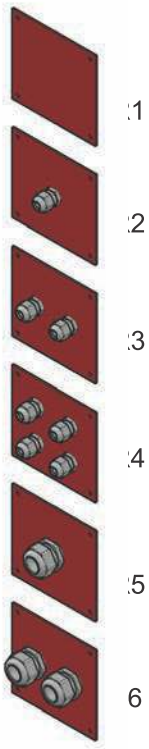
Plug-in with Mechanism	HPP

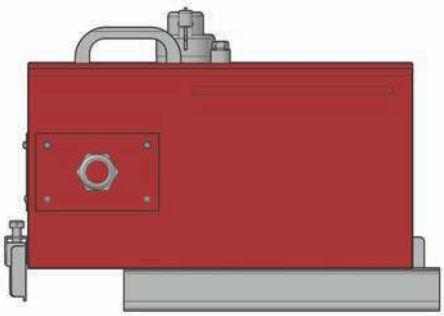
SAMPLE ORDER

160 A Tap off Box Empty
IP 55 4 Conductor
HPP165T2R2B

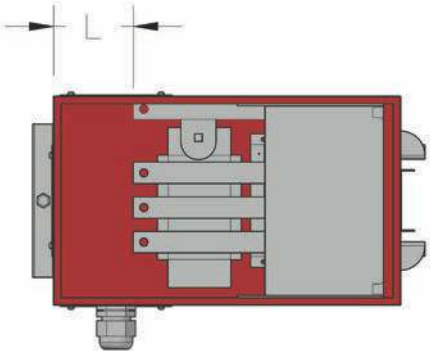
SWITCH TYPE CODE	
SWITCH	EMPTY
S	B







FITTING PLATES	
Type	CODE
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X1	R5
RG48X2	R6



Amp.	Box Code	X mm	W mm	Z mm	L mm
160	HPP16	530	300	220	155
250	HPP25	530	300	220	155
400	HPP40	710	300	220	260
500	HPP50	710	300	220	260

Info:

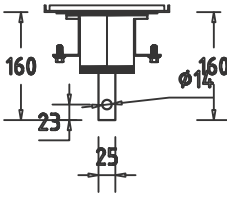
DTM Bolt-on tap off boxes cannot be mechanically attached to and removed from the busbar in the "ON" position. When the boxes are in the "OFF" position, the energy of the box is cut by a special mechanism, the same mechanism energizes the box in the "ON" position.

Boxes with standard mechanism are delivered empty. Before the boxes are attached to the busbar, a fused load breaker, fuse group or similar protection unit must be placed inside the boxes.

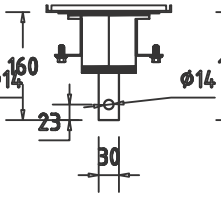
Please contact our company for non-standard boxes.

Panel Module Dimensions / Aluminium

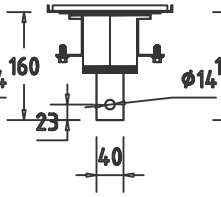
400A



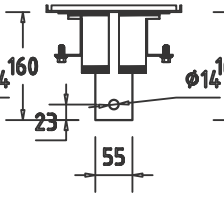
500A



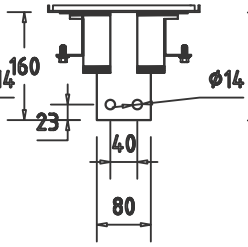
630A



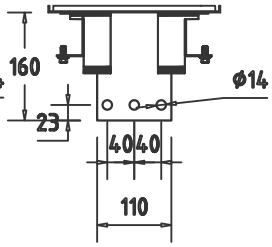
800A



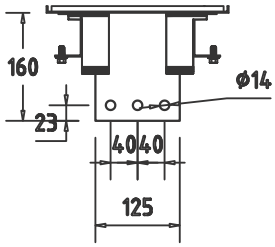
1000A



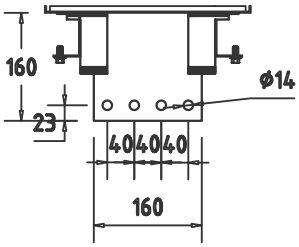
1250A



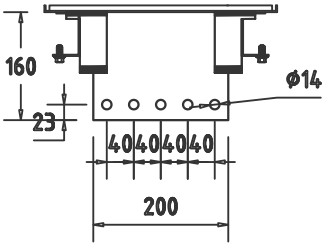
1350A



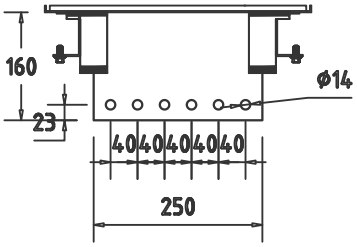
1600A



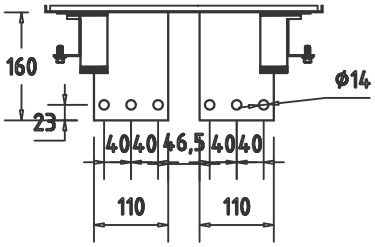
2000A



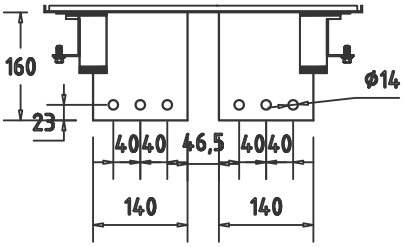
2500A



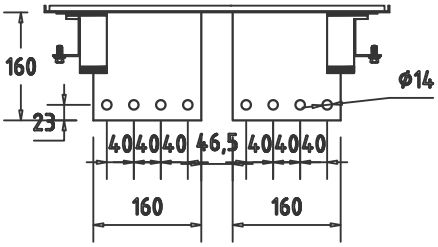
2500AX2



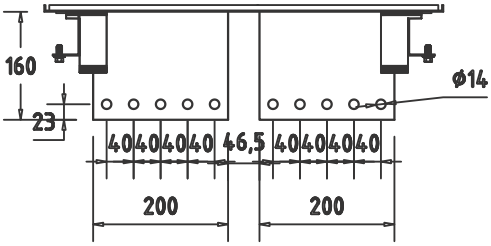
3000AX2



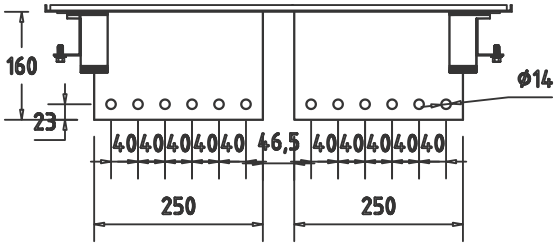
3200AX2



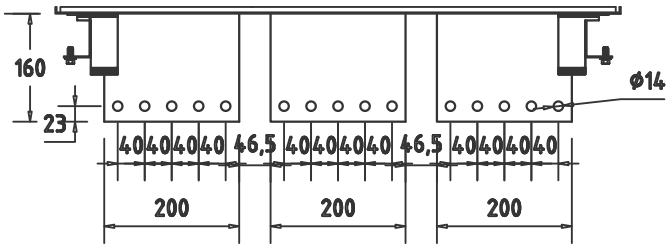
4000AX2



5000AX2

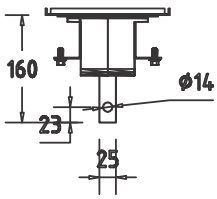


6300AX3

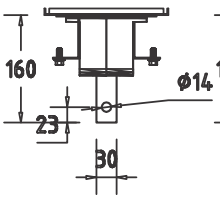


Panel Module Dimensions / Copper

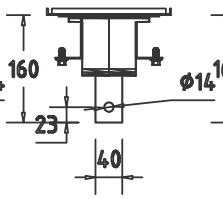
550A



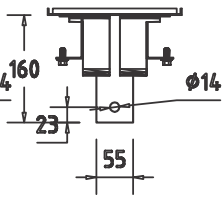
650A



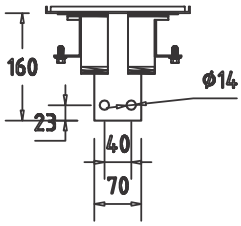
800A



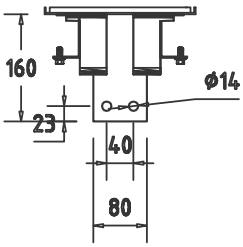
1000A



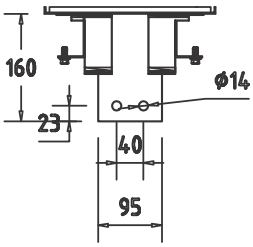
1250A



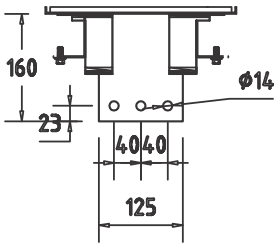
1350A



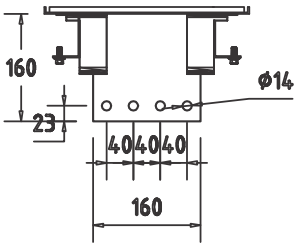
1600A



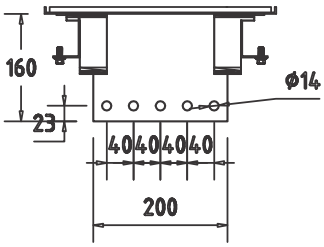
2000A



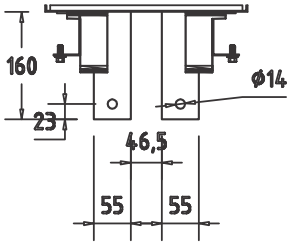
2250A



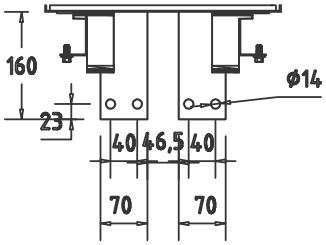
2500A



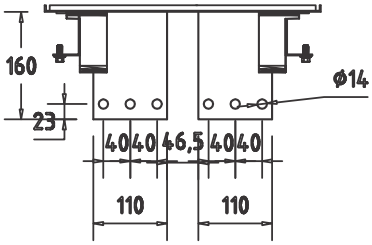
2000AX2



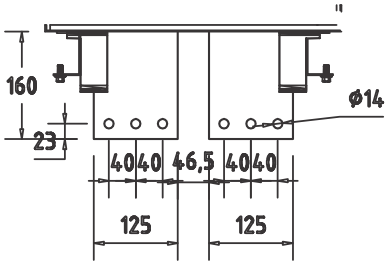
2500AX2



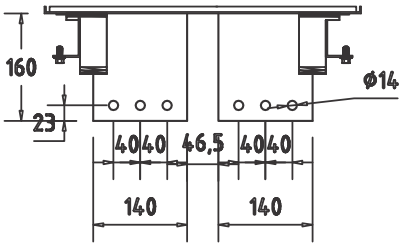
3300AX2



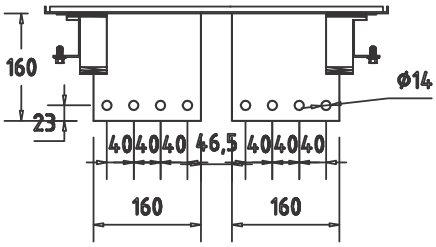
3600AX2



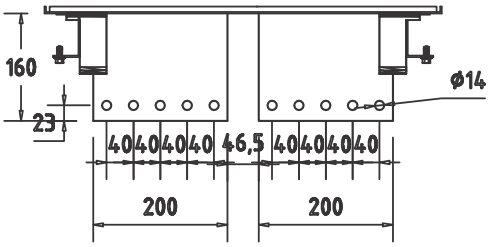
4000AX2



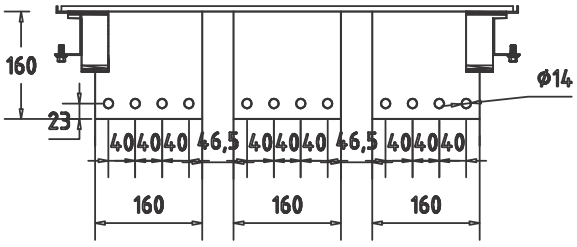
4250AX2



5000AX2

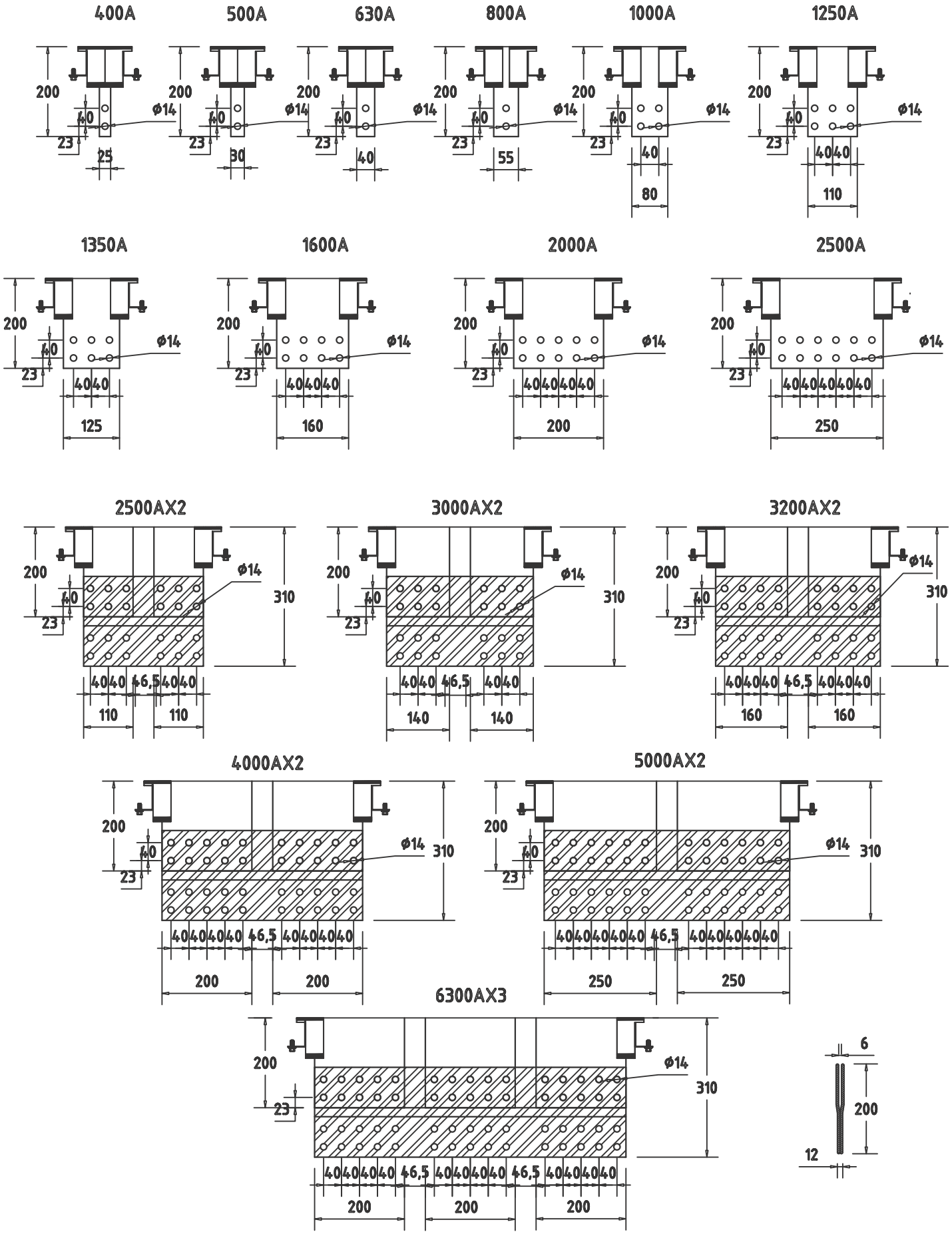


6300AX3

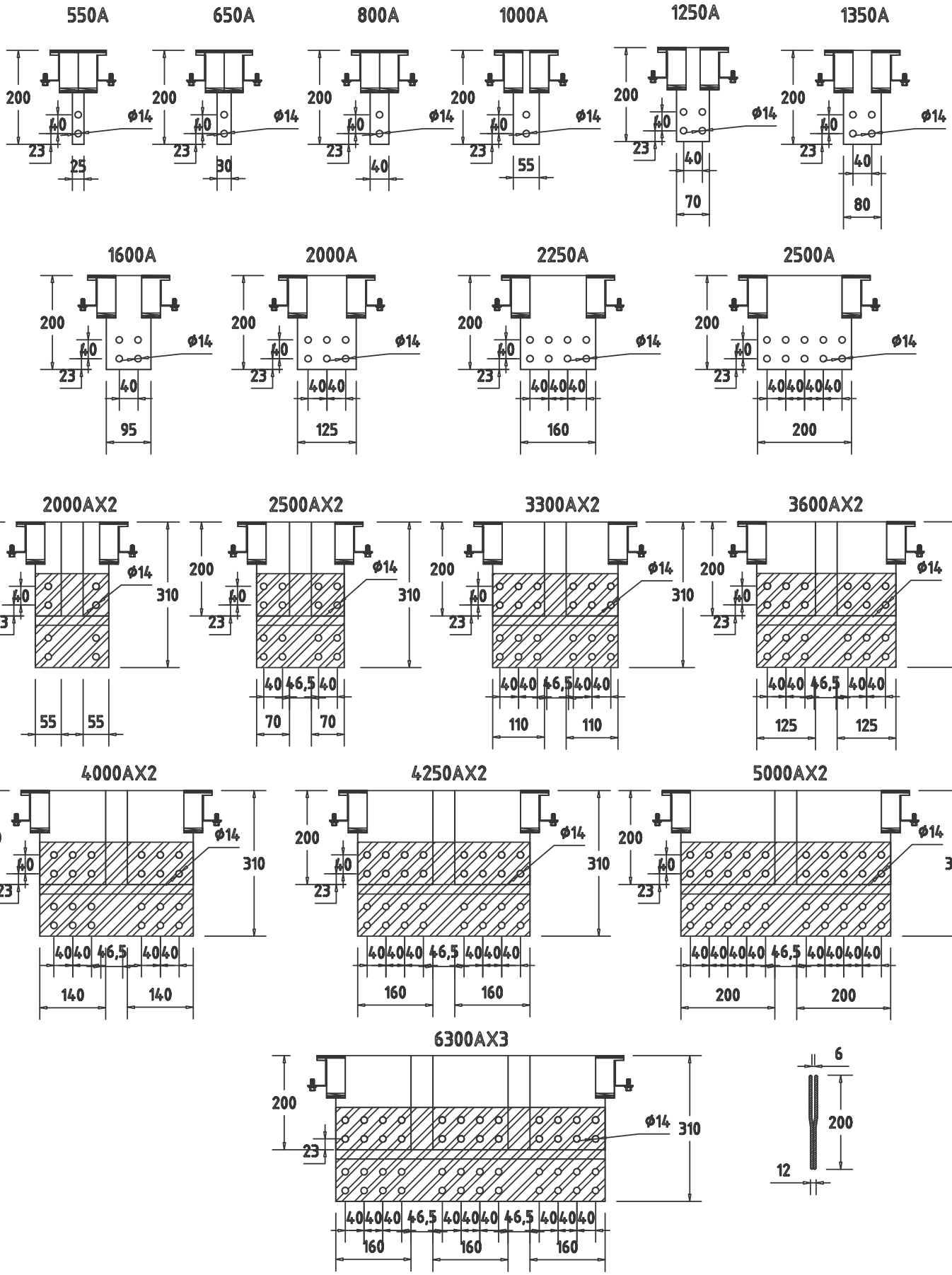


HP-K

Transformer Module Dimensions / Aluminium



Transformer Module Dimensions / Copper



Panel Flange Dimensions

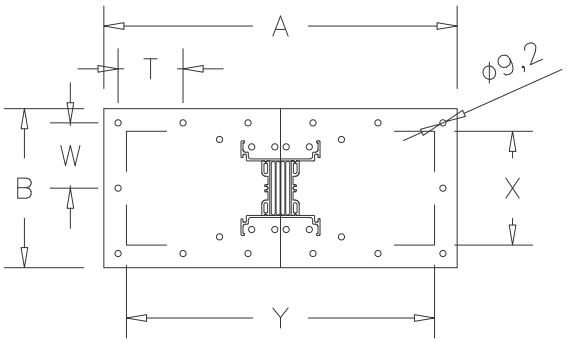


FİG 1

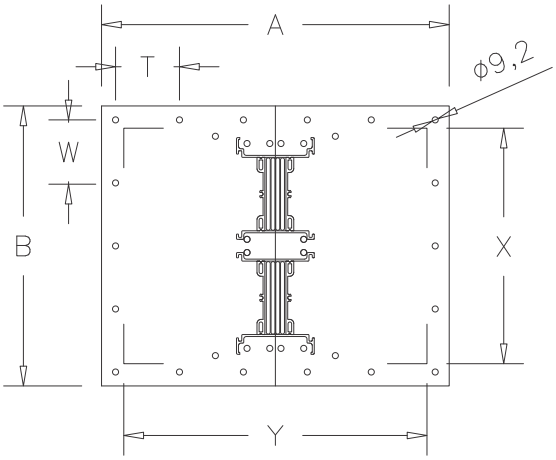


FİG 2

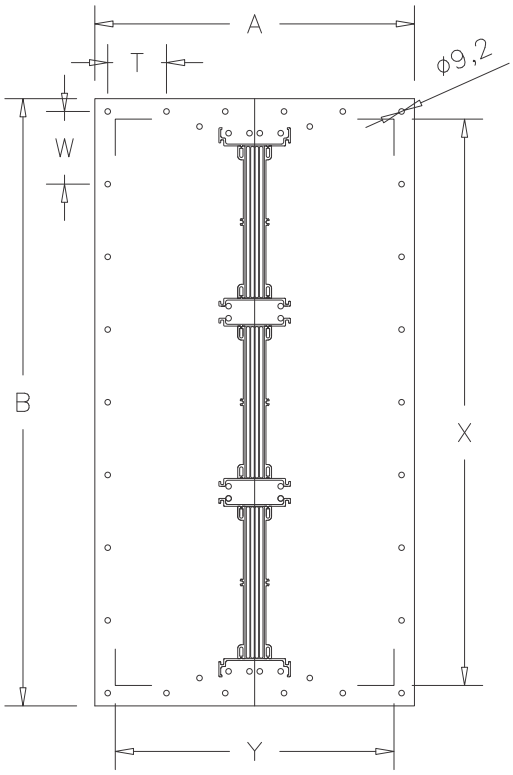
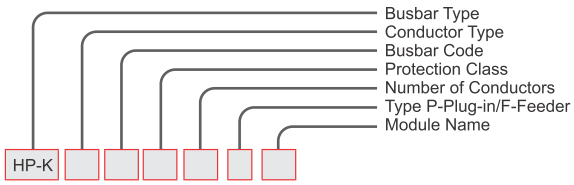
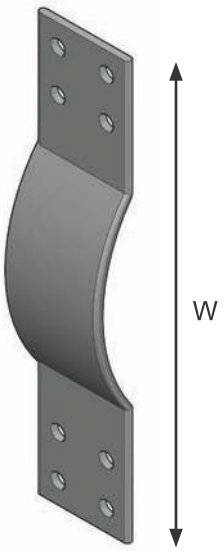


FİG 3

CONNECTION TOP FLANGE DIMENSIONS (AL)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
400A	520	198	460	130	97	6	77.5	3	1
500A	520	198	460	130	97	6	77.5	3	1
630A	520	198	460	130	97	6	77.5	3	1
800A	520	212	460	145	97	6	85	3	1
1000A	520	237	460	170	97	6	97.5	3	1
1250A	520	267	460	200	97	6	112.5	3	1
1350A	520	282	460	215	97	6	120	3	1
1600A	520	317	460	250	97	6	91.65	4	1
2000A	520	357	460	290	97	6	78.75	5	1
2500A	520	407	460	340	97	6	91.25	5	1
2500A	520	424	460	357	97	6	95.6	5	2
3000A	520	485	460	418	97	6	88.5	6	2
3200A	520	524	460	457	97	6	96.5	6	2
4000A	520	604	460	537	97	6	112.5	6	2
5000A	520	704	460	637	97	6	132.5	6	2
6300A	520	852	460	785	97	6	101.25	9	3
CONNECTION TOP FLANGE DIMENSIONS (CU)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
550A	520	198	460	130	97	6	77.5	3	1
650A	520	198	460	130	97	6	77.5	3	1
800A	520	198	460	130	97	6	77.5	3	1
1000A	520	217	460	150	97	6	85	3	1
1250A	520	227	460	160	97	6	92.5	3	1
1350A	520	237	460	170	97	6	97.5	3	1
1600A	520	252	460	185	97	6	105	3	1
2000A	520	282	460	215	97	6	120	3	1
2250A	520	317	460	250	97	6	91.6	4	1
2500A	520	357	460	290	97	6	105	4	1
2000A	520	315	460	248	97	6	90.8	4	2
2500A	520	345	460	298	97	6	100.83	4	2
3300A	520	425	460	358	97	6	95.6	5	2
3600A	520	455	460	388	97	6	82.5	6	2
4000A	520	484	460	417	97	6	88.5	6	2
4250A	520	524	460	457	97	6	96.6	6	2
5000A	520	604	460	537	97	6	93.75	7	2
6300A	520	732	460	665	97	6	86.25	9	3

Flexible Connections





Flexible Connection Busbar	FB

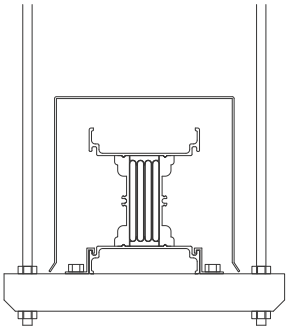
SAMPLE ORDER

1250 A Aluminum
Flexible Busbar
IP 55 4 Conductors
HP-KA125T2FB

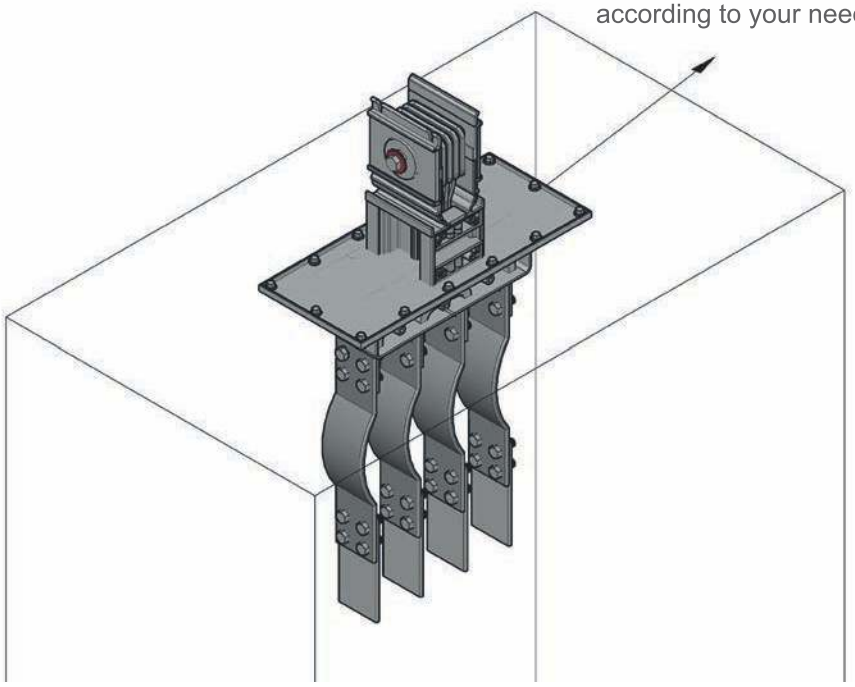
FLEXIBLE BARASI CU			
AL		CU	
AMR	W	AMR	W
400A	300-450	550A	300-450
500A	300-450	650A	300-450
630A	300-450	800A	300-450
800A	300-450	1000A	300-450
1000A	300-450	1250A	300-450
1250A	300-450	1350A	300-450
1350A	300-450	1600A	300-450
1600A	300-450	2000A	300-450
2000A	300-450	2250A	300-450
2500A	300-450	2500A	300-450
2500A	300-450	2000A	300-450
3000A	300-450	2500A	300-450
3200A	300-450	3300A	300-450
4000A	300-450	3600A	300-450
5000A	300-450	4000A	300-450
6300A	300-450	4250A	300-450
		5000A	300-450
		6300A	300-450

Flexible

Flexible braided connections are used where it is necessary to mechanically separate the transformer to the connection interface of the busbar to prevent vibration transmission.

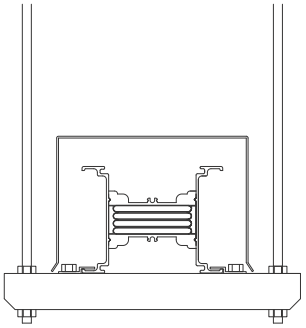


The distance between phases can be designed according to your needs



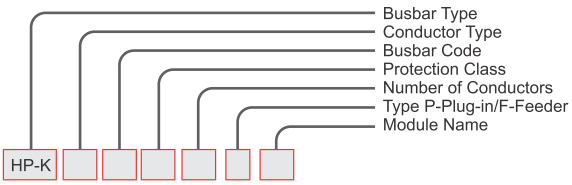
Canopy

It is necessary to use a canopy system outdoors where the IP55 protection degree is not su翻□cient. The application of the canopy system does not change the protection degree of the busbar.



HP-K

Panel Adapter Box Flange



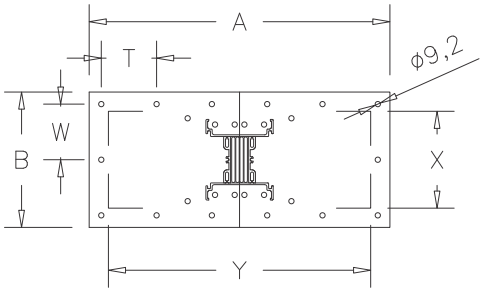


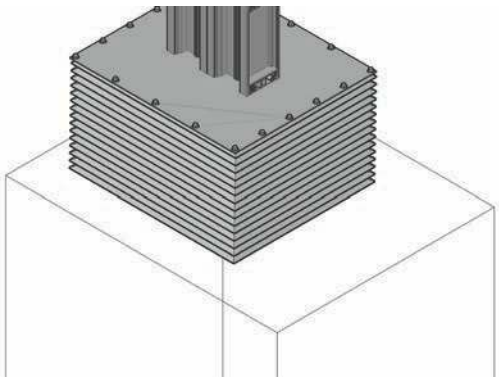
FIG 1

Panel Bellows Flange	PKF

SAMPLE ORDER

2500 A Aluminum
Panel Adapter Box
IP 55 4 Conductors

HP-HA255T2R1PKF



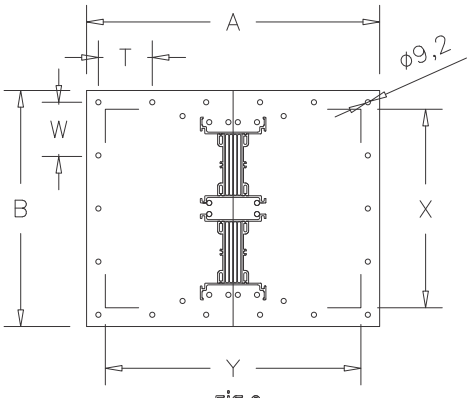


FIG 2

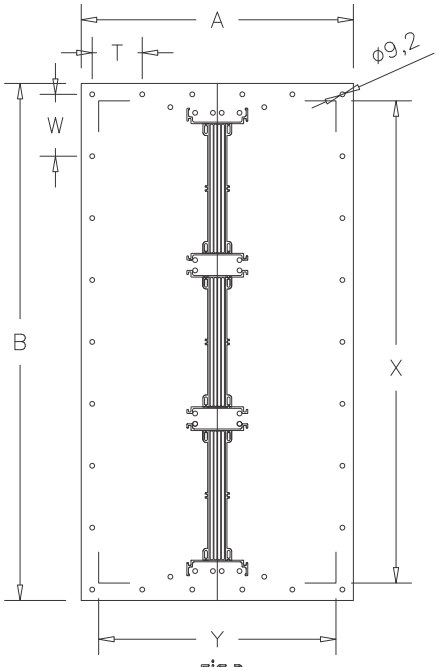
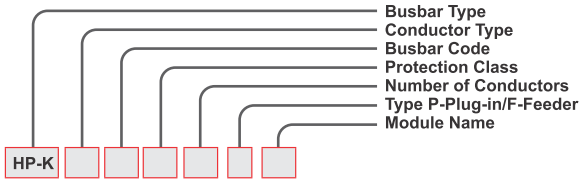


FIG 3

CONNECTION TOP FLANGE DIMENSIONS (AL)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
400A	520	198	460	130	97	6	77.5	3	1
500A	520	198	460	130	97	6	77.5	3	1
630A	520	198	460	130	97	6	77.5	3	1
800A	520	212	460	145	97	6	85	3	1
1000A	520	237	460	170	97	6	97.5	3	1
1250A	520	267	460	200	97	6	112.5	3	1
1350A	520	282	460	215	97	6	120	3	1
1600A	520	317	460	250	97	6	91.65	4	1
2000A	520	357	460	290	97	6	78.75	5	1
2500A	520	407	460	340	97	6	91.25	5	1
2500A	520	424	460	357	97	6	95.6	5	2
3000A	520	485	460	418	97	6	88.5	6	2
3200A	520	524	460	457	97	6	96.5	6	2
4000A	520	604	460	537	97	6	112.5	6	2
5000A	520	704	460	637	97	6	132.5	6	2
6300A	520	852	460	785	97	6	101.25	9	3
CONNECTION TOP FLANGE DIMENSIONS (CU)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
550A	520	198	460	130	97	6	77.5	3	1
650A	520	198	460	130	97	6	77.5	3	1
800A	520	198	460	130	97	6	77.5	3	1
1000A	520	217	460	150	97	6	85	3	1
1250A	520	227	460	160	97	6	92.5	3	1
1350A	520	237	460	170	97	6	97.5	3	1
1600A	520	252	460	185	97	6	105	3	1
2000A	520	282	460	215	97	6	120	3	1
2250A	520	317	460	250	97	6	91.6	4	1
2500A	520	357	460	290	97	6	105	4	1
2000A	520	315	460	248	97	6	90.8	4	2
2500A	520	345	460	298	97	6	100.83	4	2
3300A	520	425	460	358	97	6	95.6	5	2
3600A	520	455	460	388	97	6	82.5	6	2
4000A	520	484	460	417	97	6	88.5	6	2
4250A	520	524	460	457	97	6	96.6	6	2
5000A	520	604	460	537	97	6	93.75	7	2
6300A	520	732	460	665	97	6	86.25	9	3

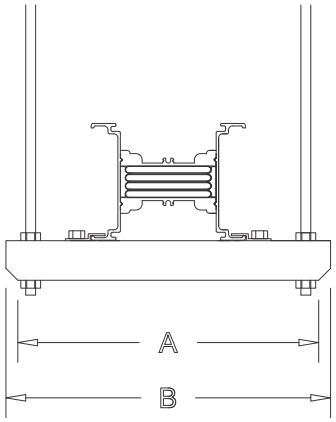
Horizontal Suspension Set (U)

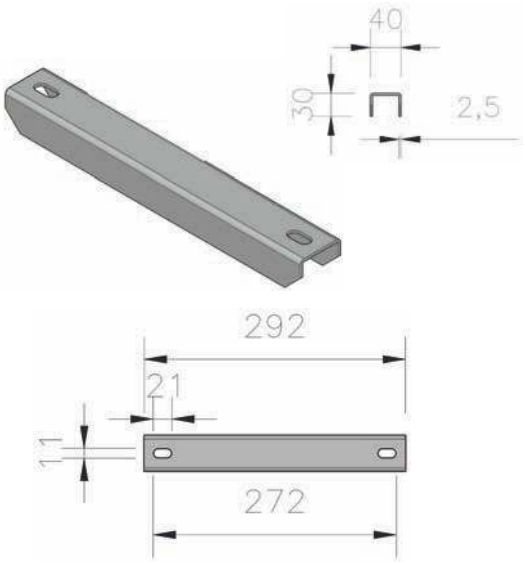


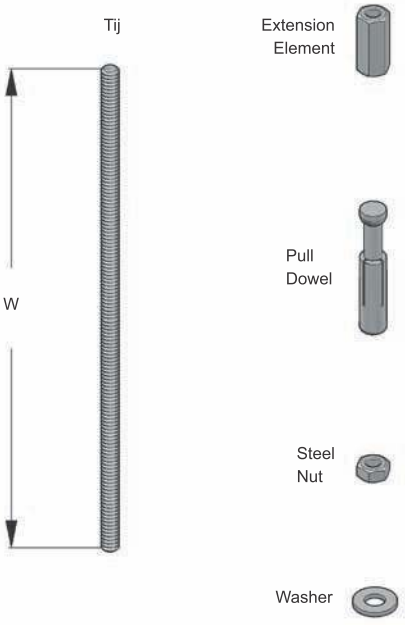
Special Horizontal Suspension Set Horizontal Application	YUP

SAMPLE ORDER

5000 A Aluminum
Horizontal Suspension
IP 55 4 Conductors
HP-KA505T2YUP







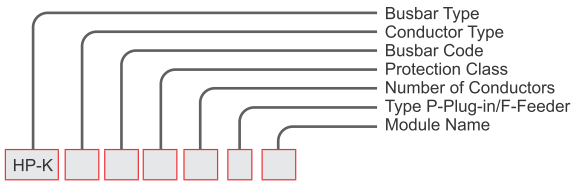
CONNECTION ELEMENTS		
Name	W(mm)	Code
B-E 12 Tij Hanger(M10)	500	BE101
B-E 12 Tij Hanger(M10)	1000	BE102
B-E 14 Tij Hanger(M12)	500	BE103
B-E 14 Tij Hanger(M12)	1000	BE104
(M10) Extension Element	-	BE105
(M12) Extension Element	-	BE106
M 10 Pull Dowel	-	BE107
M 12 Pull Dowel	-	BE108
M 10 Steel Nut	-	BE109
M 12 Steel Nut	-	BE110
M 10 Washer	-	BE111
M 12 Washer	-	BE112

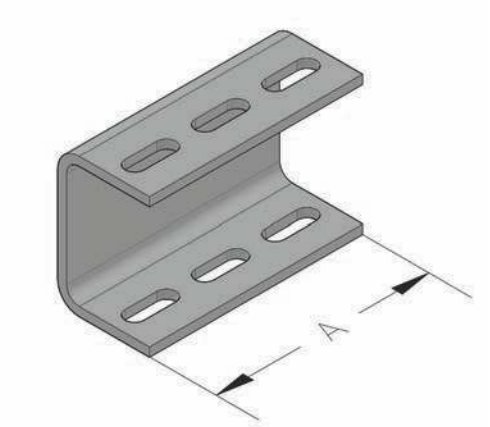
SPECIAL HORIZONTAL SUSPENSION SET HORIZONTAL APPLICATION					
(AL)			(CU)		
AMR	A	B	AMR	A	B
400A	252	292	550A	252	292
500A	252	292	650A	252	292
630A	252	292	800A	252	292
800A	268	308	1000A	268	308
1000A	292	332	1250A	282	322
1250A	322	362	1350A	292	332
1350A	337	377	1600A	322	362
1600A	372	412	2000A	352	392
2000A	412	452	2250A	372	412
2500A	462	502	2500A	412	452
2500A	497	519	2000A	369	409
3000A	539	579	2500A	419	459
3200A	579	619	3300A	479	519
4000A	659	699	3600A	509	549
5000A	759	799	4000A	539	579
6300A	1056	1096	4250A	579	619
			5000A	659	699
			6300A	905	945

Drill Bit Diameter:

M10.....Ø14
M12.....Ø16

Special Horizontal Suspension (U)





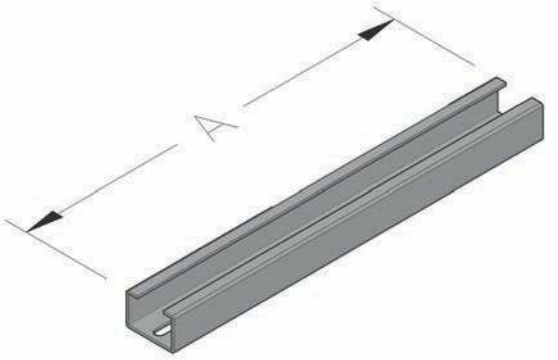
Horizontal Ceiling Kit	YTK

SAMPLE ORDER

1000 A Aluminum
Horizontal Ceiling Kit
IP 55 4 Conductors

HP-KA105T2YTK

HORIZONTAL CEILING CONNECTION KIT (U PROFILE)			
AL		CU	
AMR	A	AMR	A
400A	100	550A	100
500A	100	650A	100
630A	100	800A	100
800A	100	1000A	100
1000A	100	1250A	100
1250A	100	1350A	100
1350A	100	1600A	100
1600A	100	2000A	100
2000A	100	2250A	100
2500A	100	2500A	100
2500A	100	2000A	100
3000A	100	2500A	100
3200A	100	3300A	100
4000A	100	3600A	100
5000A	100	4000A	100
6300A	100	4250A	100
		5000A	100
		6300A	100



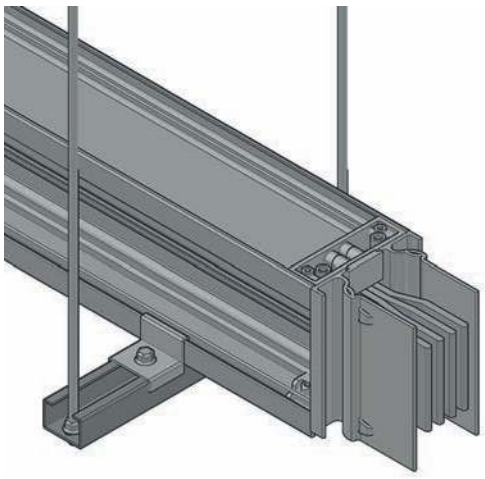
Horizontal Suspension Set Special	YVA

SAMPLE ORDER

1000 A Aluminum
Horizontal Suspension
IP 55 4 Conductors

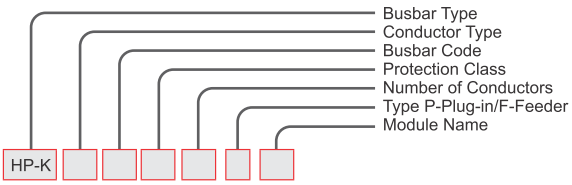
HP-KA105T2YVA

HORIZONTAL SUSPENSION SET HORIZONTAL SPECIAL (U PROFILE)			
AL		CU	
AMR	A	AMR	A
400A	252	550A	252
500A	252	650A	252
630A	252	800A	252
800A	267	1000A	267
1000A	292	1250A	282
1250A	322	1350A	292
1350A	337	1600A	307
1600A	372	2000A	337
2000A	412	2250A	372
2500A	462	2500A	412
2500A	479	2000A	369
3000A	539	2500A	419
3200A	579	3300A	479
4000A	659	3600A	509
5000A	759	4000A	539
6300A	907	4250A	579
		5000A	659
		6300A	907



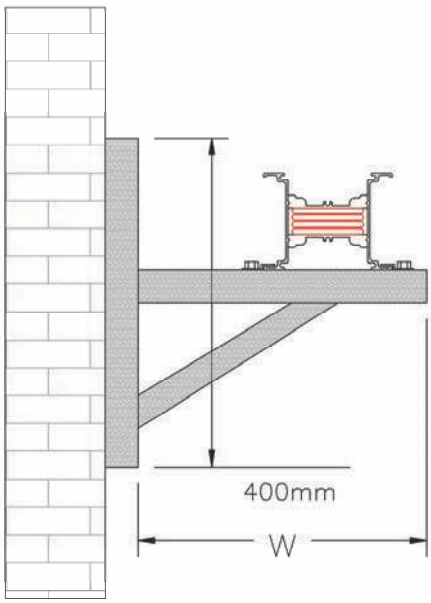
HORIZONTAL SUSPENSION SET VERTICAL SPECIAL (U PROFILE)			
AL		CU	
AMR	A	AMR	A
400A	355	550A	355
500A	355	650A	355
630A	355	800A	355
800A	355	1000A	355
1000A	355	1250A	355
1250A	355	1350A	355
1350A	355	1600A	355
1600A	355	2000A	355
2000A	355	2250A	355
2500A	355	2500A	355
2500A	355	2000A	355
3000A	355	2500A	355
3200A	355	3300A	355
4000A	355	3600A	355
5000A	355	4000A	355
6300A	355	4250A	355
		5000A	355
		6300A	355

Wall Type Suspension Set



Wall Suspension Set Horizontal Application	DYA

Wall Suspension Standard (HORIZONTAL)

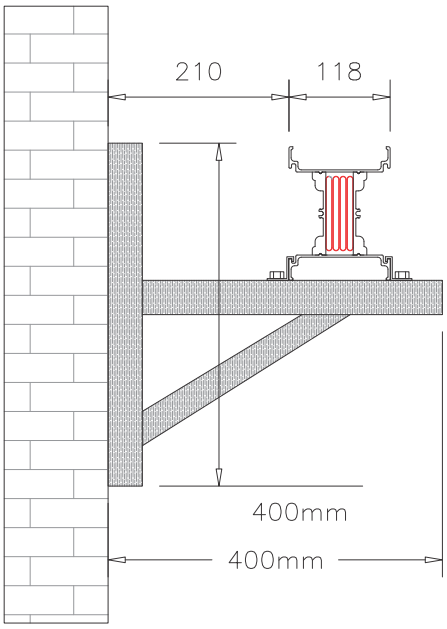


SAMPLE ORDER

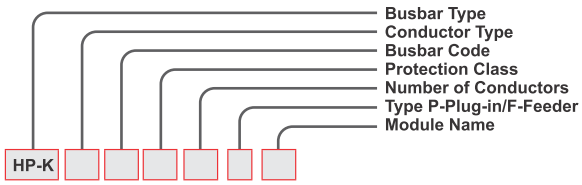
1600 A Aluminum
Wall Suspension IP
55 4 Conductors
HP-KA165T2DYA

WALL SUSPENSION SET (HORIZONTAL)			
AL		CU	
AMR	W	AMR	W
400A	372	550A	372
500A	372	650A	372
630A	372	800A	372
800A	387	1000A	387
1000A	412	1250A	402
1250A	442	1350A	412
1350A	457	1600A	427
1600A	492	2000A	457
2000A	532	2250A	492
2500A	582	2500A	532
2500A	599	2000A	489
3000A	659	2500A	539
3200A	699	3300A	599
4000A	779	3600A	629
5000A	879	4000A	659
6300A	1027	4250A	699
		5000A	779
		6300A	879

Wall Type Suspension Standard (VERTICAL)



Spring Type Shaft Suspension Set



Spring Type Hanger	SA

SAMPLE ORDER

1000 A Aluminum
Spring Hanger
IP 55 4 Conductors

HP-KA105T2SA

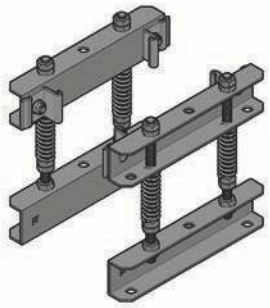


FIG 2

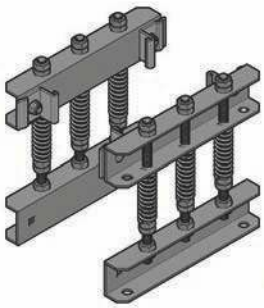


FIG 3

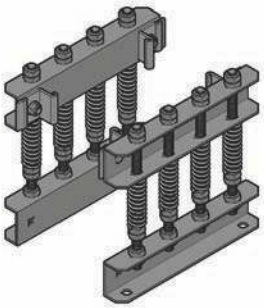
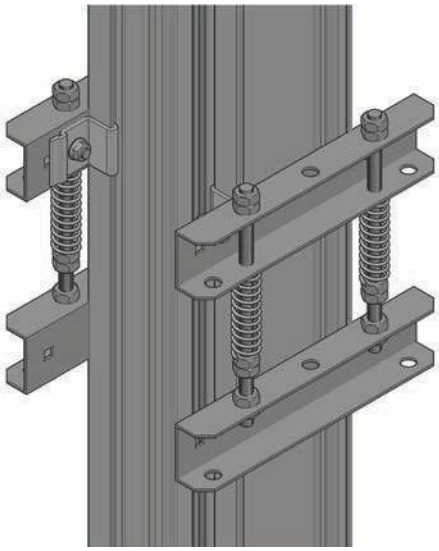
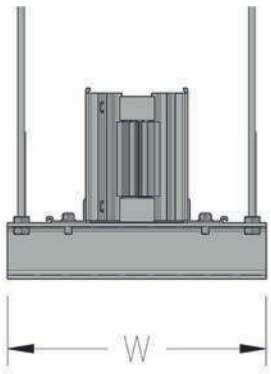


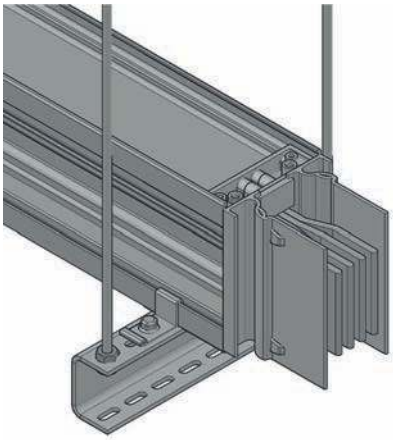
FIG 4

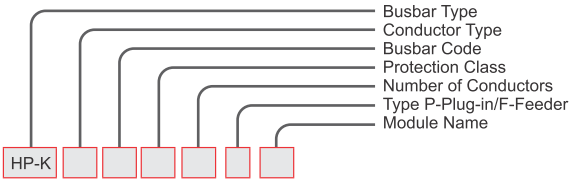


SPRING TYPE SHAFT HANGER CONNECTION FIGURES			
AL		CU	
400A	FIG2	550A	FIG2
500A	FIG2	650A	FIG2
630A	FIG2	800A	FIG2
800A	FIG2	1000A	FIG2
1000A	FIG2	1250A	FIG3
1250A	FIG2	1350A	FIG3
1350A	FIG2	1600A	FIG3
1600A	FIG2	2000A	FIG3
2000A	FIG3	2250A	FIG3
2500A	FIG3	2500A	FIG3
2500A	FIG3	2000A	FIG4
3000A	FIG4	2500A	FIG4
3200A	FIG4	3300A	FIG4
4000A	FIG4	3600A	FIG4
5000A	FIG4	4000A	FIG4
6300A	FIG4	4250A	FIG4
		5000A	FIG4
		6300A	FIG4

Horizontal Suspension Set







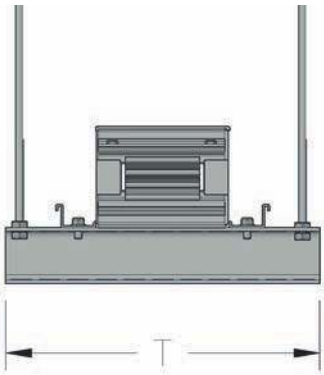
Horizontal Suspension Set Vertical Application	YUD

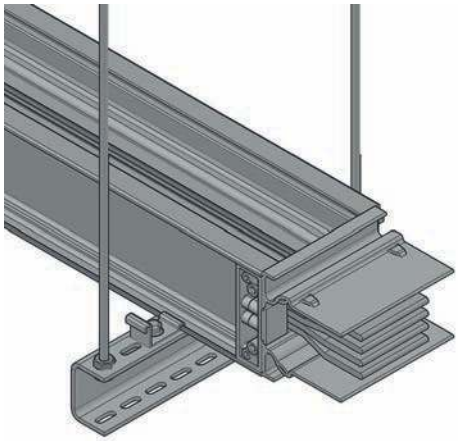
SAMPLE ORDER

800 A Aluminum
Horizontal Suspension
IP 55 4 Conductors

HP-KA085T2YUD

HORIZONTAL SUSPENSION SET VERTICAL APPLICATION			
AL		CU	
AMR	W	AMR	W
400A	300	550A	300
500A	300	650A	300
630A	300	800A	300
800A	300	1000A	300
1000A	300	1250A	300
1250A	300	1350A	300
1350A	300	1600A	300
1600A	300	2000A	300
2000A	300	2250A	300
2500A	300	2500A	300
2500A	300	2000A	300
3000A	300	2500A	300
3200A	300	3300A	300
4000A	300	3600A	300
5000A	300	4000A	300
6300A	300	4250A	300
		5000A	300
		6300A	300





Horizontal Suspension Set Horizontal Application	YUY

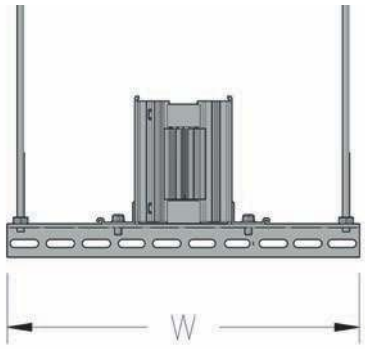
SAMPLE ORDER

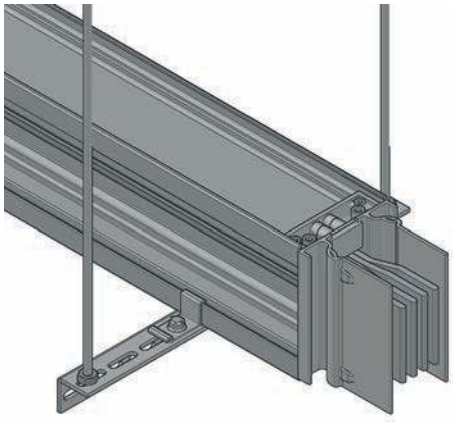
1000 A Aluminum
Horizontal Suspension
IP 55 4 Conductors

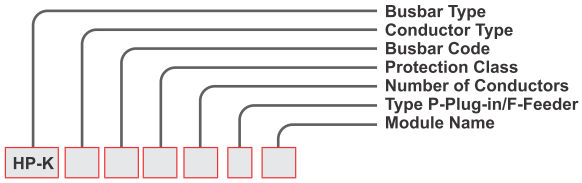
HP-KA105T2YUY

HORIZONTAL SUSPENSION SET HORIZONTAL APPLICATION			
AL		CU	
AMR	T	AMR	T
400A	252	550A	252
500A	252	650A	252
630A	252	800A	252
800A	267	1000A	267
1000A	292	1250A	282
1250A	322	1350A	292
1350A	337	1600A	307
1600A	372	2000A	337
2000A	412	2250A	372
2500A	462	2500A	412
2500A	479	2000A	369
3000A	539	2500A	419
3200A	579	3300A	479
4000A	659	3600A	509
5000A	759	4000A	539
6300A	907	4250A	579
		5000A	659
		6300A	907

Horizontal Suspension Set (L)







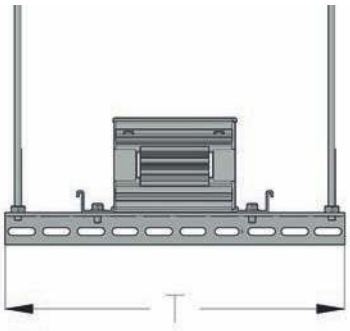
Horizontal Suspension Set Vertical Application	YLD

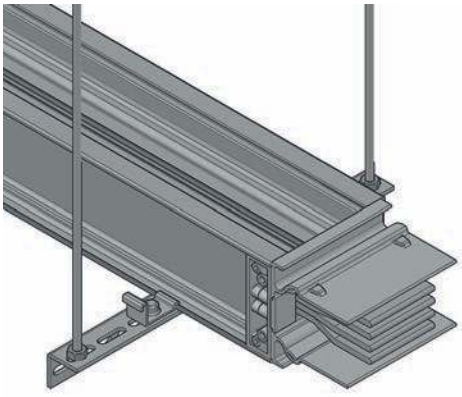
SAMPLE ORDER

1350 A Aluminum
Horizontal Bracket Suspension
IP 55 4 Conductors

HP-KA135T2YLD

HORIZONTAL SUSPENSION SET VERTICAL APPLICATION (L Bracket) 50X50			
AL		CU	
AMR	W	AMR	W
400A	300	550A	300
500A	300	650A	300
630A	300	800A	300
800A	300	1000A	300
1000A	300	1250A	300
1250A	300	1350A	300
1350A	300	1600A	300
1600A	300	2000A	300
2000A	300	2250A	300
2500A	300	2500A	300
2500A	300	2000A	300
3000A	300	2500A	300
3200A	300	3300A	300
4000A	300	3600A	300
5000A	300	4000A	300
6300A	300	4250A	300
		5000A	300
		6300A	300





Horizontal Suspension Set Horizontal Application	YLY

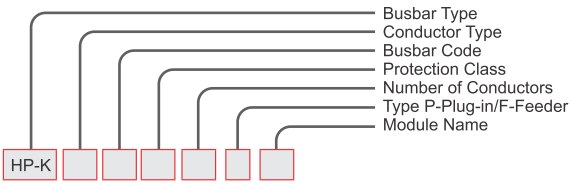
SAMPLE ORDER

1600 A Aluminum
Horizontal Bracket Suspension
IP 55 4 Conductors

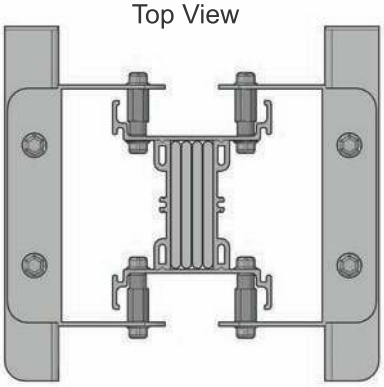
HP-HA165T2YLY

HORIZONTAL SUSPENSION SET HORIZONTAL APPLICATION (L Bracket) 50X50			
AL		CU	
AMR	T	AMR	T
400A	252	550A	252
500A	252	650A	252
630A	252	800A	252
800A	267	1000A	267
1000A	292	1250A	282
1250A	322	1350A	292
1350A	337	1600A	307
1600A	372	2000A	337
2000A	412	2250A	372
2500A	462	2500A	412
2500A	479	2000A	369
3000A	539	2500A	419
3200A	579	3300A	479
4000A	659	3600A	509
5000A	759	4000A	539
6300A	907	4250A	579
		5000A	659
		6300A	907

Shaft Wall Suspension Set



Top View

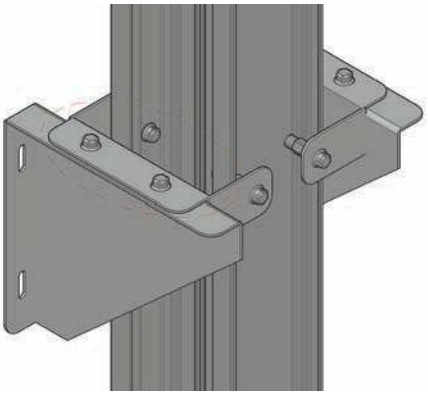


Shaft Wall Suspension Kit	SD

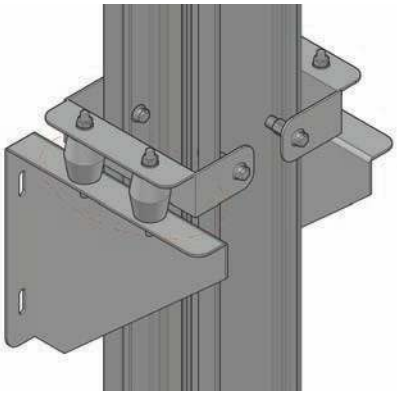
SAMPLE ORDER

800 A Aluminum
Horizontal Suspension
IP 55 4 Conductors

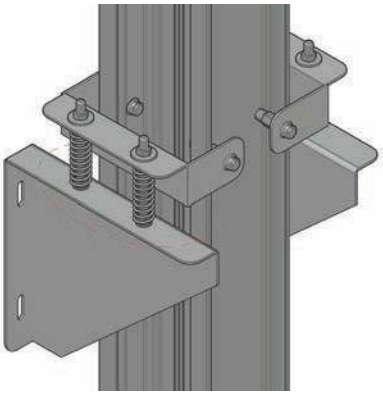
HP-KA085T2SD3



(1)
Still



(2)
Rubberized



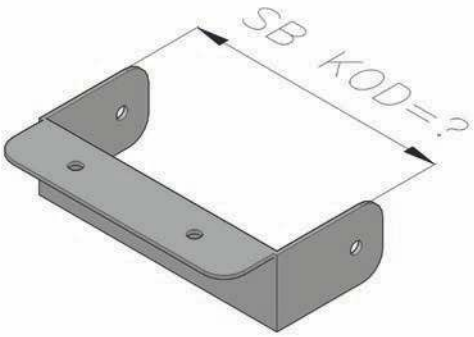
(3)
Spring

Shaft Busbar Connection Element	SB

SAMPLE ORDER

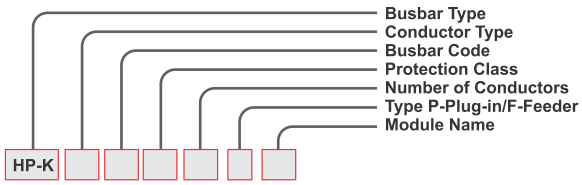
1000 A Aluminum Shaft
Connection Element IP 55
4 Conductors

HP-KA105T2SBA5



SHAFT CONNECTION ELEMENT (SPECIAL)			
AL		CU	
AMR	CODE	AMR	CODE
400A	SBA1	550A	SBC1
500A	SBA2	650A	SBC2
630A	SBA3	800A	SBC3
800A	SBA4	1000A	SBC4
1000A	SBA5	1250A	SBC5
1250A	SBA6	1350A	SBC6
1350A	SBA7	1600A	SBC7
1600A	SBA8	2000A	SBC8
2000A	SBA9	2250A	SBC9
2500A	SBA10	2500A	SBC10
2500A	SBA11	2000A	SBC11
3000A	SBA12	2500A	SBC12
3200A	SBA13	3300A	SBC13
4000A	SBA14	3600A	SBC14
5000A	SBA15	4000A	SBC15
6300A	SBA16	4250A	SBC16
		5000A	SBC17
		6300A	SBC18

Shaft Wall Suspension Set

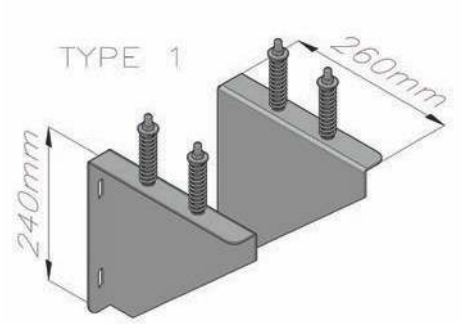


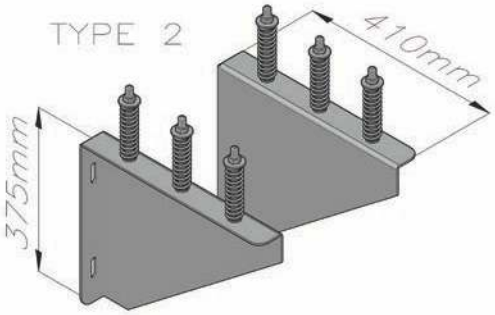
Shaft Wall Suspension Kit	TYPE

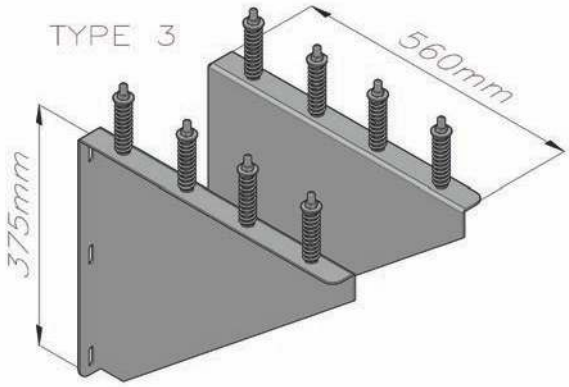
SAMPLE ORDER

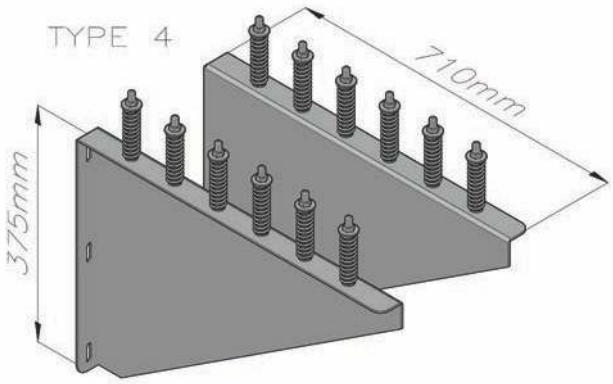
1000 A Aluminum
Shaft Wall Suspension Set
IP 55 4 Conductors

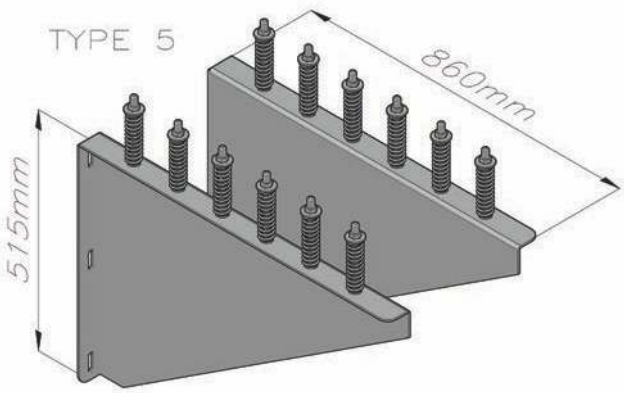
HP-KA105T2TYPE1





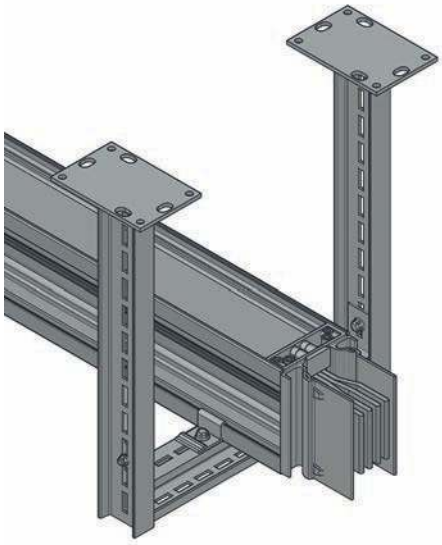


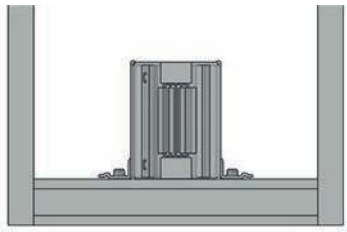


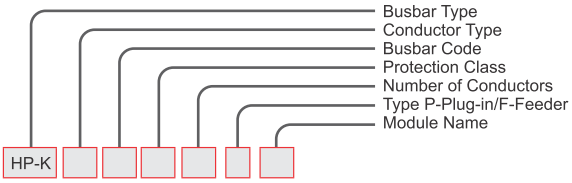


SHAFT WALL SUSPENSION SET TABLOSU			
AL		CU	
AMR	TPYE	AMR	TPYE
400A	TYPE1	550A	TYPE1
500A	TYPE1	650A	TYPE1
630A	TYPE1	800A	TYPE1
800A	TYPE1	1000A	TYPE1
1000A	TYPE1	1250A	TYPE1
1250A	TYPE2	1350A	TYPE2
1350A	TYPE2	1600A	TYPE2
1600A	TYPE2	2000A	TYPE2
2000A	TYPE2	2250A	TYPE2
2500A	TYPE2	2500A	TYPE2
2500A	TYPE4	2000A	TYPE2
3000A	TYPE3	2500A	TYPE3
3200A	TYPE3	3300A	TYPE3
4000A	TYPE4	3600A	TYPE3
5000A	TYPE5	4000A	TYPE4
6300A	TYPE5	4250A	TYPE4
		5000A	TYPE5
		6300A	TYPE5

Horizontal NPI Suspension Set





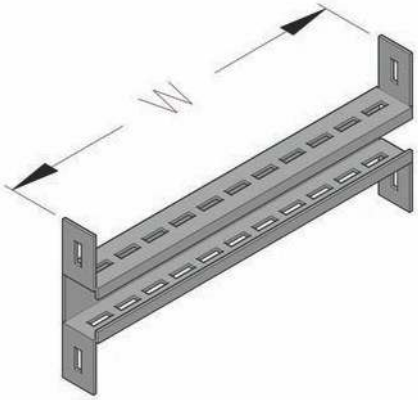


Horizontal Suspension Set Vertical Application	YID

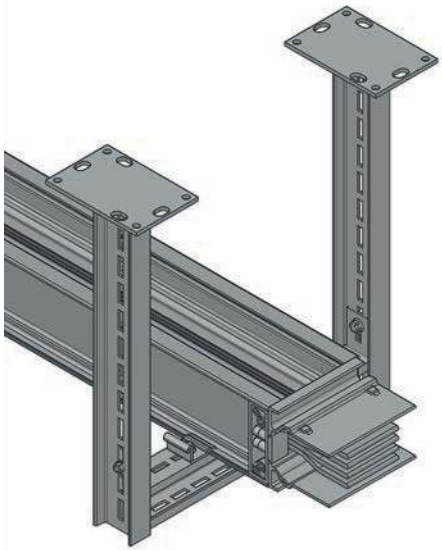
SAMPLE ORDER

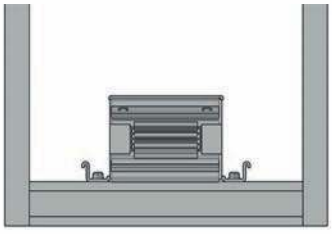
800 A Aluminum
Suspension
IP 55 4 Conductor

HP-KA085T2YID



HORIZONTAL SUSPENSION SET VERTICAL APPLICATION			
AL		CU	
AMR	W	AMR	W
400A	300	550A	300
500A	300	650A	300
630A	300	800A	300
800A	300	1000A	300
1000A	300	1250A	300
1250A	300	1350A	300
1350A	300	1600A	300
1600A	300	2000A	300
2000A	300	2250A	300
2500A	300	2500A	300
2500A	300	2000A	300
3000A	300	2500A	300
3200A	300	3300A	300
4000A	300	3600A	300
5000A	300	4000A	300
6300A	300	4250A	300
		5000A	300
		6300A	300



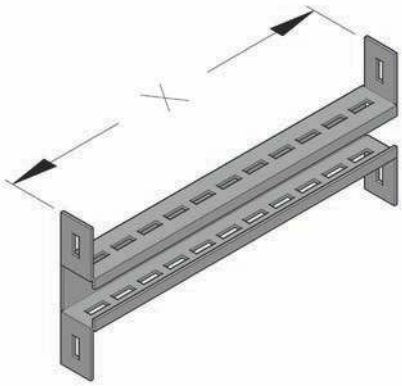


Horizontal Suspension Set Horizontal Application	YIY

SAMPLE ORDER

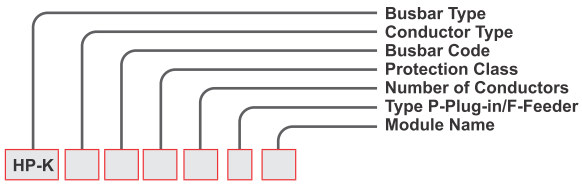
1000 A Aluminum
Horizontal Suspension
IP 55 4 Conductors

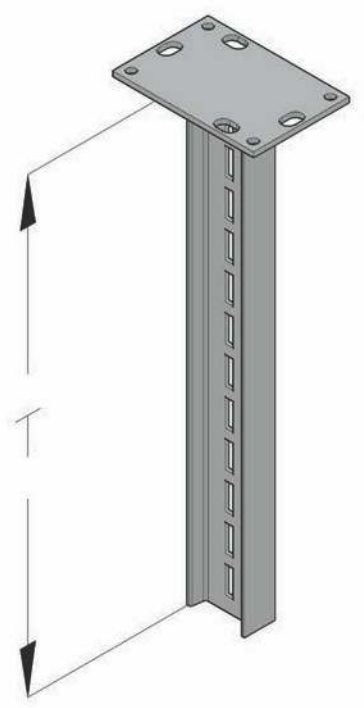
HP-KA105T2YIY



HORIZONTAL SUSPENSION SET HORIZONTAL APPLICATION			
AL		CU	
AMR	W	AMR	W
400A	252	550A	252
500A	252	650A	252
630A	252	800A	252
800A	267	1000A	267
1000A	292	1250A	282
1250A	322	1350A	292
1350A	337	1600A	307
1600A	372	2000A	337
2000A	412	2250A	372
2500A	462	2500A	412
2500A	479	2000A	369
3000A	539	2500A	419
3200A	579	3300A	479
4000A	659	3600A	509
5000A	759	4000A	539
6300A	907	4250A	579
		5000A	659
		6300A	907

Ceiling NPI Suspension





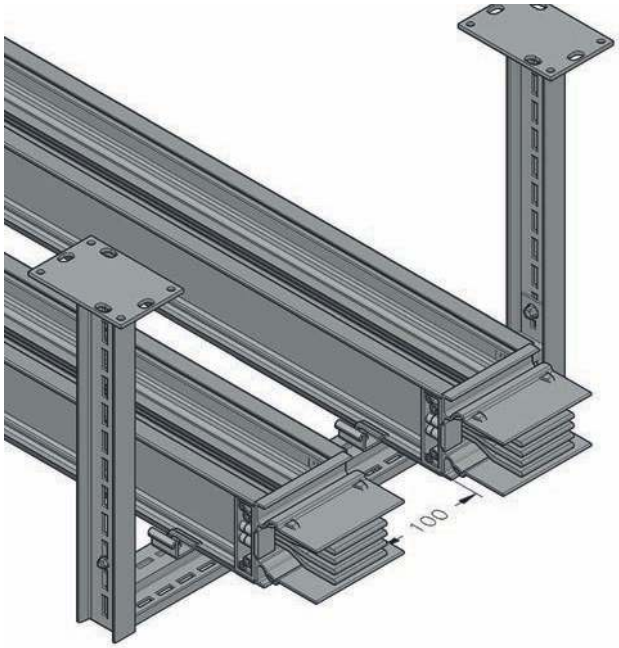
Ceiling Suspension NPI	IYD

SAMPLE ORDER

1600 A Aluminum
Ceiling NPI Suspension
IP 55 4 Conductors

HP-KA165T2IYD

NPI CEILING CONNECTION ELEMENT		
Name	T (mm)	Code
NPI ASKI (5)	500	NPI5
NPI ASKI (10)	1000	NPI10
NPI ASKI (15)	1500	NPI15
NPI ASKI (20)	2000	NPI20



Technical Data

ELECTRICAL CHARACTERISTIC VALUES

For 60hz the result is multiplied by 0.83.

$$DV\% = \frac{D \times t \times I_b \times L}{Ue} \times 100$$

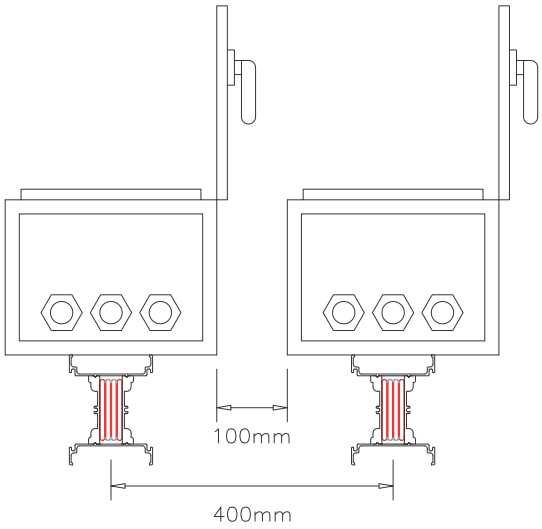
ALUMINUM

Nominal	Impedance x 10-3 Ω/m phase to neutral			Power Factor %							
Current	R	X	Z	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3
400A	6,99	3,9	8,01	9,67	11,1	11	10,6	10,1	9,51	8,81	8,05
500A	6,99	3,9	8,01	9,67	11,1	11	10,6	10,1	9,51	8,81	8,05
630A	6,99	3,9	8,01	9,67	11,1	11	10,6	10,1	9,51	8,81	8,05
800A	6,5	2,31	6,9	11,2	11,2	11,4	10,7	9,94	9,08	8,16	7,18
1000A	5,2	2,07	5,6	10,7	11,5	11,2	10,6	9,91	9,11	8,25	7,33
1250A	3,5	1,72	3,9	8,17	11,3	12	12,2	12,2	12	11,6	11,1
1350A	3,1	1,62	3,5	8,58	11,9	12,7	12,9	12,9	12,7	12,3	11,8
1600A	2,5	1,28	2,9	8,65	9,71	9,57	9,21	8,73	8,16	7,51	6,81
2000A	1,9	0,43	1,95	8,21	8,2	7,68	7,08	6,41	5,71	4,99	4,23
2500A	1,5	0,68	1,65	7,78	8,54	8,34	7,96	7,49	6,94	6,34	5,7
2500A	1,4	0,14	1,45	9,68	9,14	8,33	7,47	6,58	5,68	4,76	3,83
3000A	1,15	0,37	1,21	6,03	6,90	7,74	8,52	9,24	9,87	10,34	9,94
3200A	1,02	0,33	1,08	6,49	7,43	8,32	9,15	9,92	10,58	11,08	10,63
4000A	5,2	2,07	5,6	10,7	11,5	7,68	7,08	6,41	5,71	4,99	4,23
5000A	2,5	1,28	2,9	8,65	9,71	11,4	10,7	9,94	9,08	8,16	7,18
6300A	3,5	1,8	3,5	8,65	9,71	11,4	10,7	9,94	9,08	8,16	7,18

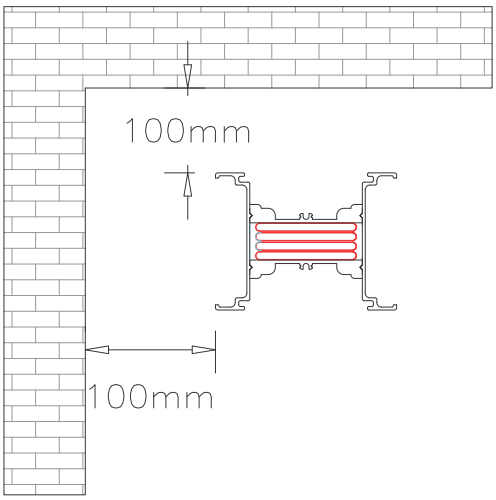
COPPER

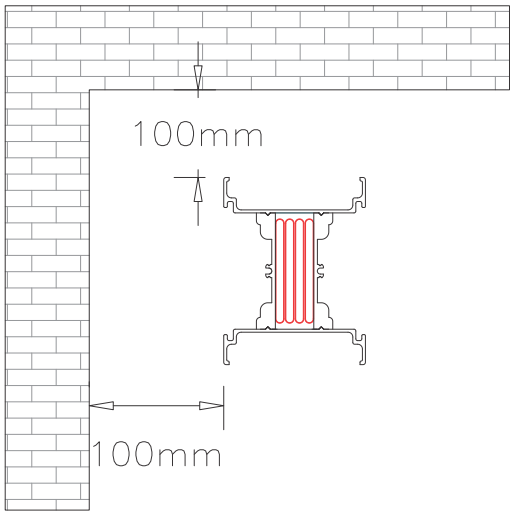
Nominal	Impedance x 10-5 Ω/m phase to neutral			Power Factor %							
Current	R	X	Z	1	0,9	0,8	0,7	0,6	0,5	0,4	0,3
550A	8,91	4,12	9,01	11,1	12,4	12,4	12,7	12,6	12,3	12,9	12,2
650A	8,91	4,12	9,01	11,1	12,4	12,4	12,7	12,6	12,3	12,9	12,2
800A	8,91	4,12	9,01	11,1	12,4	12,4	12,7	12,6	12,3	12,9	12,2
1000A	6,1	2,24	6,5	8,44	8,15	7,68	7,51	7,92	8,01	8,12	7,98
1250A	4,5	2,98	5,4	7,47	8,21	7,41	7,31	7,81	8,13	8,1	7,82
1350A	4,1	1,85	4,5	6,22	8,29	7,12	7,12	7,51	8,53	10,1	8,9
1600A	3,3	1,88	3,8	5,25	8,31	7,01	6,91	7,35	8,51	9,25	9,12
2000A	2,5	1,61	3,01	4,16	8,01	6,98	6,15	7,12	7,03	8,63	10,1
2250A	2	1,13	2,3	3,18	8,11	7,11	6,03	7,09	6,9	7,61	5,72
2500A	1,5	1,08	1,85	2,56	8,61	7,05	6,19	7,38	7,12	6,98	4,02
2000A	1,3	0,74	1,5	2,07	8,55	7,81	6,25	7,49	6,01	5,91	5,51
2500A	1	0,45	1,1	1,52	8,38	7,03	6,12	7,01	5,15	4,51	3,41
3300A	0,80	0,45	0,91	6,92	7,57	8,17	8,69	9,11	9,41	9,48	8,02
3600A	0,62	0,35	0,71	6,71	7,34	7,91	8,42	8,83	9,12	9,18	8,02
4000A	5,2	2,07	5,6	10,7	11,5	8,33	7,47	6,58	5,68	4,76	3,83
4250A	2,5	1,28	2,9	8,65	9,71	7,68	7,08	6,41	5,71	4,99	4,23
5000A	1,4	0,14	1,45	9,68	9,14	9,57	9,21	8,73	8,16	7,51	6,81
6300A	6,5	2,31	6,9	11,2	11,2	11,4	10,7	9,94	9,08	8,16	7,18

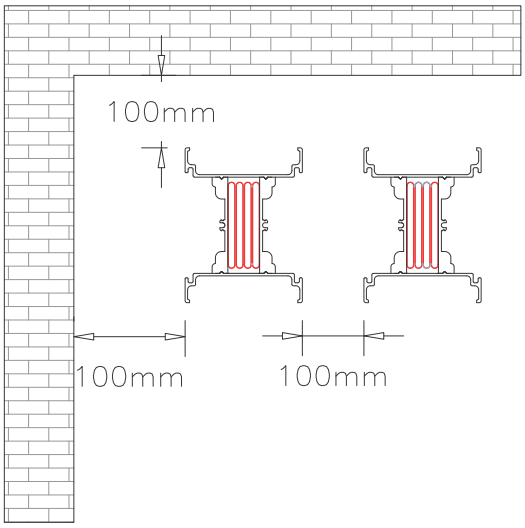
Recommended Spaces Between Two Lines



Sample Layout in Busbar High- Rise Buildings







HP-K

ALUMINUM BUSBAR SIZES AND WEIGHTS

AMPER CLASS	BUSBAR MM			CONDUCTOR/SECTION MM				FIG	FEEDER KG/MT	
	W		H						3p3w+pe	3p4w+pe
400A	118		102				25	.	5.87	6.22
500A	118		102				30	1 1	6.18	6.61
630A	118		102				40	1 1	6.82	7.49
800A	118		118				55	1 1	8.13	8.93
1000A	118		142	1			80	1 1	10.25	11.25
1250A	118		172				110	1 1	12.66	13.84
1350A	118		187				125	2 2	13.86	15.06
1600A	118	X	222		6	X	160	2 2	16.67	19.17
2000A	118		262				200	2 3	19.90	23
2500A	118		312				250		23.89	27.81
2500A	118		329				110		24.73	28.16
3000A	118		389				140		29.58	33.95
3200A	118		429	2			160		32.76	37.76
4000A	118		509				200		39.21	45.47
5000A	118		609				250		40.90	47.8
6300A	118		757	3			200		61.05	70.2

COPPER BUSBAR SIZES AND WEIGHTS

AMPER CLASS	BUSBAR MM			CONDUCTOR/SECTION MM				FIG	FEEDER KG/MT	
	W		H						3p3w+pe	3p4w+pe
550A	118		102				25	.	9.3	10.55
650A	118		102				30	1 1	10.35	11.84
800A	118		102				40	1 1	12.34	14.32
1000A	118		118				55	1 1	15.44	15.7
1250A	118		132	1			70	1 1	20.5	23.62
1350A	118		142				80	1 1	21.68	25.78
1600A	118		157				95	1 2	25	29
2000A	118		187				125	2 2	31.83	38.27
2250A	118		222				160	2 2	39.72	48
2500A	118	X	262		6	X	200	2 3	48.76	59.15
2000A	118		219				55		31.65	35.34
2500A	118		249				70		38.71	45.87
3300A	118		329				110		56.4	67.73
3600A	118		359	2			125		63.1	76.1
4000A	118		389				140		69.87	84.33
4250A	118		429				160		78.95	95.5
5000A	118		509				200		97.03	117.75
6300A	118		636	3			160		145.3	176.35

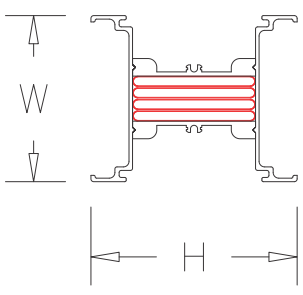


FIG 1

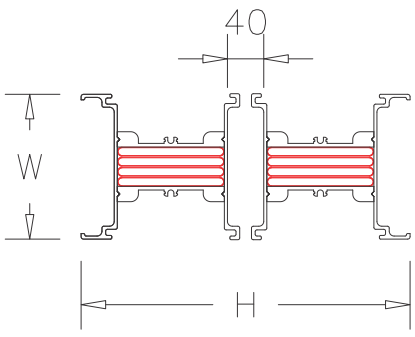


FIG 2

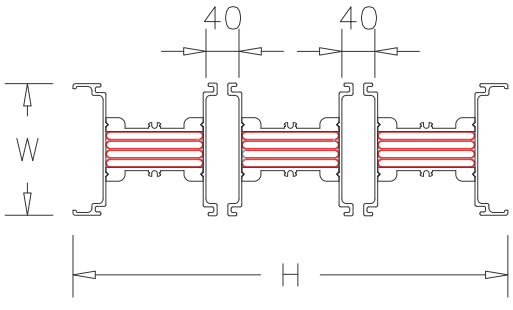
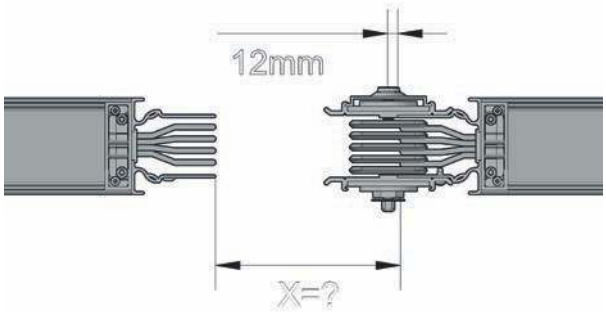


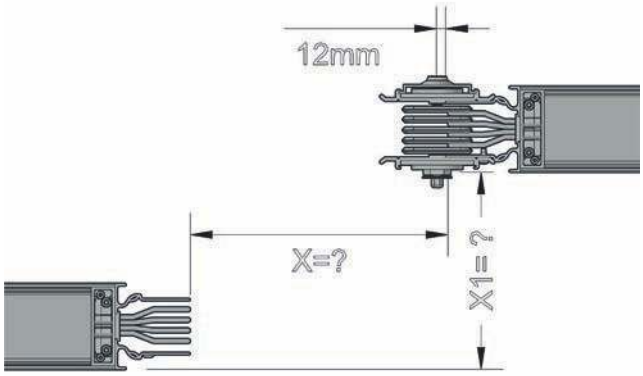
FIG 3

Special Length Measures

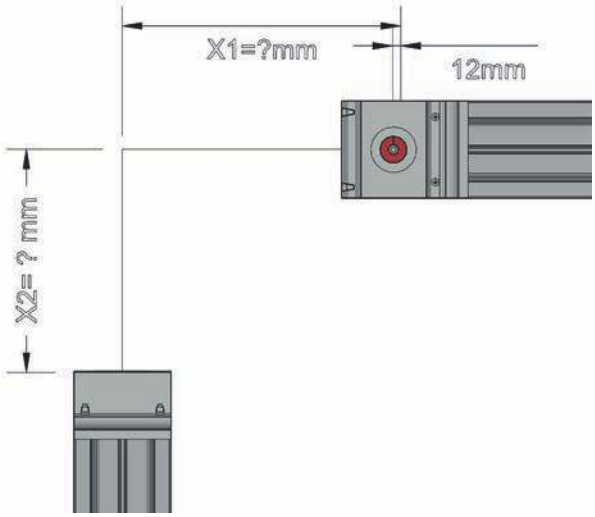
SPECIAL LENGTH DIMENSIONS OF THE TWO BUSBAR
X: measured length Example X=1000 mm Additional block spacing is 24 mm. 1000-24=976 mm Order size: 976mm



DOUBLE VERTICAL ELBOW MEASUREMENT	
X	dimensions joint block = 24 mm The X1 dimension should be taken from the busbar body edge to the other busbar housing edge.



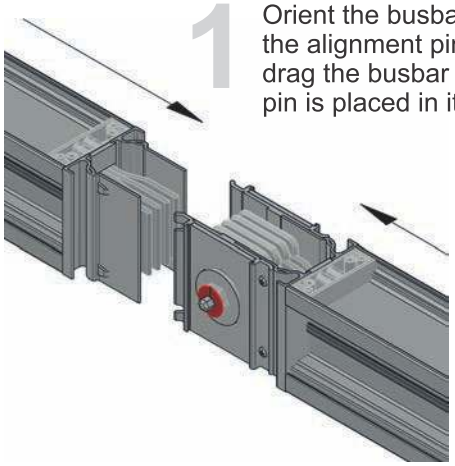
HORIZONTAL ELBOW MEASUREMENT	
X	dimensions additional block = 24 mm The X1 dimension should be taken from the busbar body edge to the other busbar body edge.



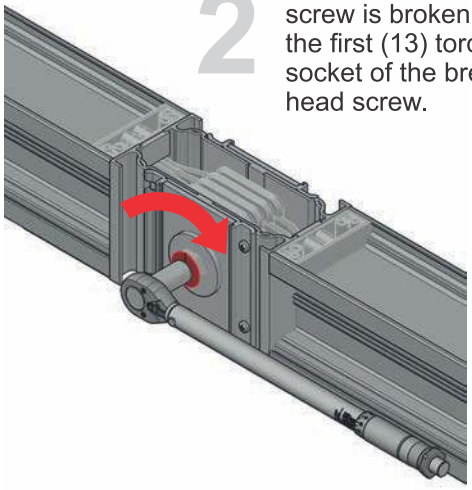
HP-K

Installation

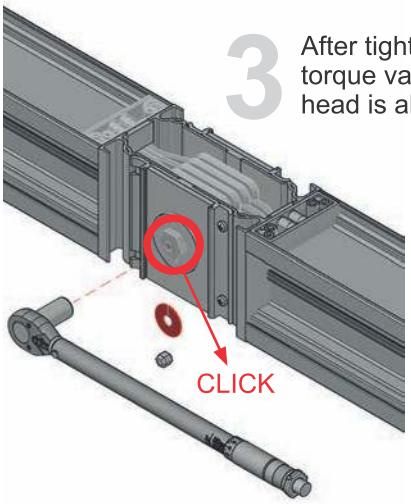
1 Orient the busbar lengths to the alignment pin slot and drag the busbar so that the pin is placed in its slot.



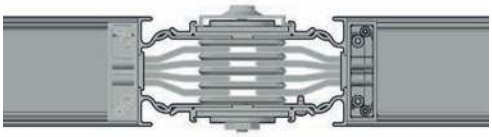
2 The head point of the screw is broken off with the first (13) torque socket of the breaking head screw.



3 After tightening to the torque value, the bolt-head is allowed to fall.

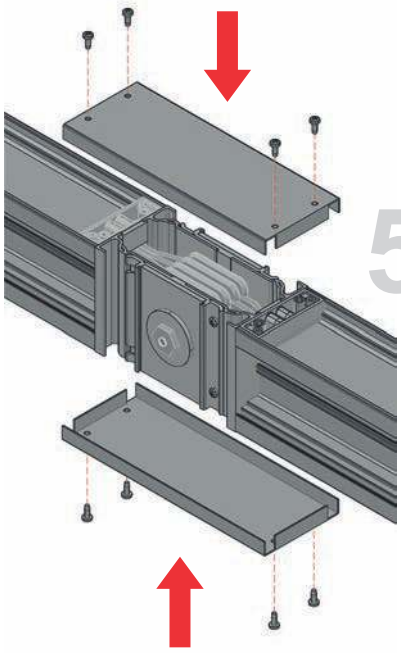


4 When the joints block tightening is finished, check the insulators.

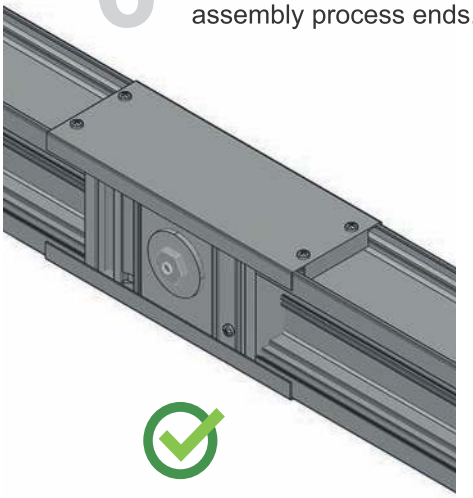


Joint block tightening value is around 60 lbft (80 Nm).

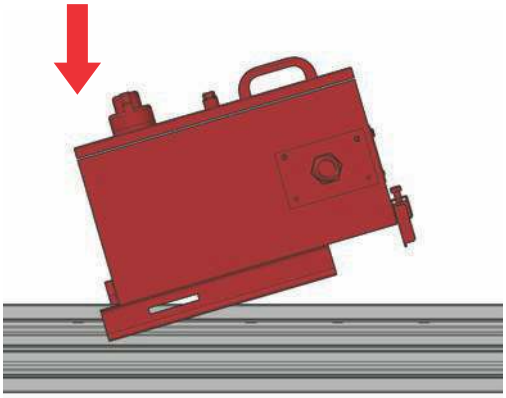
5 Additional covers are fixed to the centering holes on the busbar by tightening them with the help of screws.



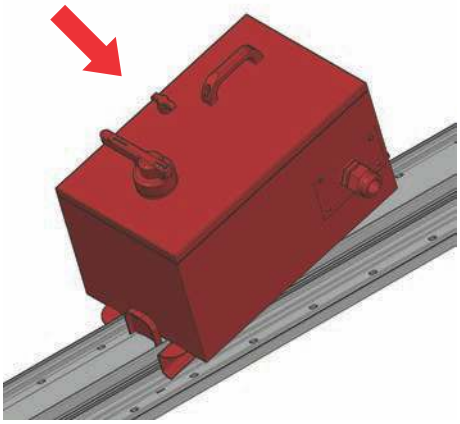
6 If the joint block caps are fully tightened, the assembly process ends.



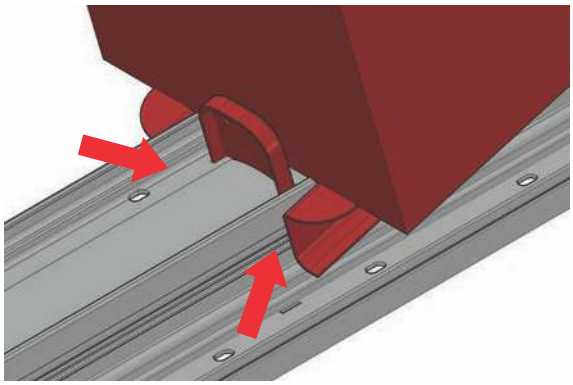
Tap-Off Box Installation



1 While mounting the box, pay attention to the hook at the bottom input part of the output box and mount it to the body.

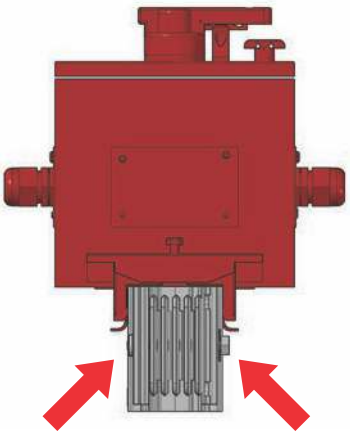


2 The tap-off box is pressed from the top to fit the busbar.

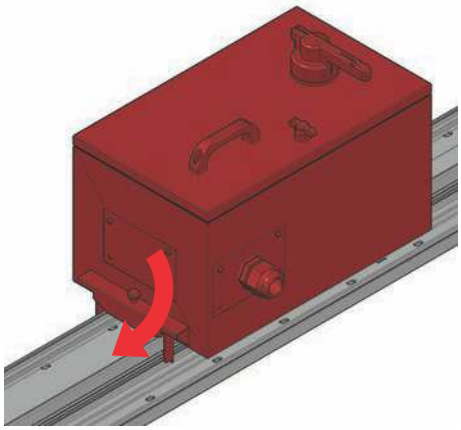


3 Check that the output box is attached to the busbar body with the help of hook system.

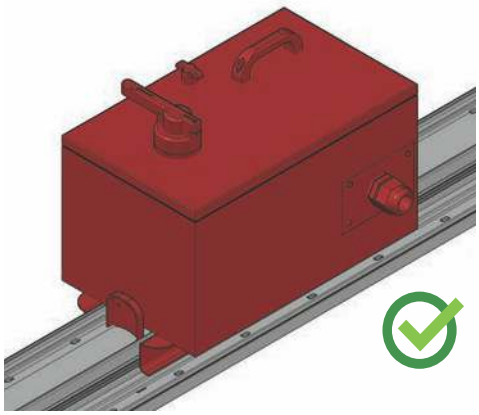
6 Activate the tap-off box by means of a special mechanism. When the mechanism is in (OFF), it is energized when the cover is in the "ON" position.



4 It is mounted by screwing the box to the busbar body with the help of a clamp system.



5 It is fixed to the body by tightening the clamp.

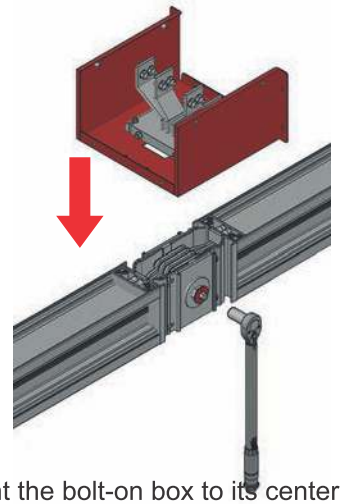


NOTE: In the (ON) position for safety reasons, the box cover is prevented from being opened by the mechanism.

HP-K

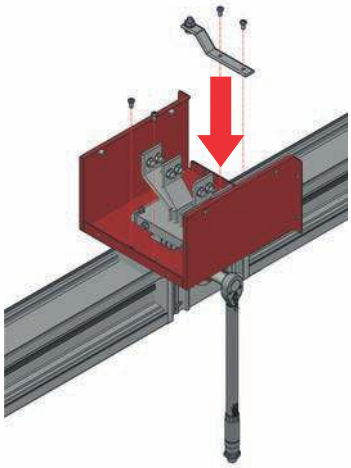
Bolt-On Installation

1



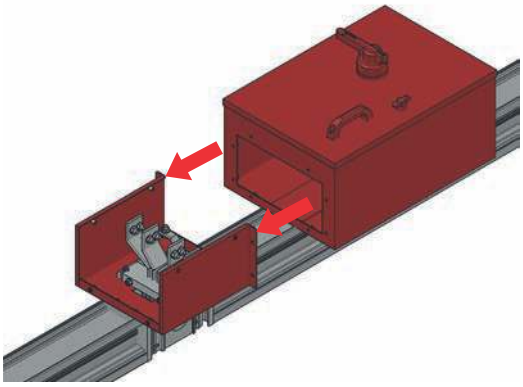
Orient the bolt-on box to its center without tightening the busbar joint point, then place the box and tighten the joint block.

2



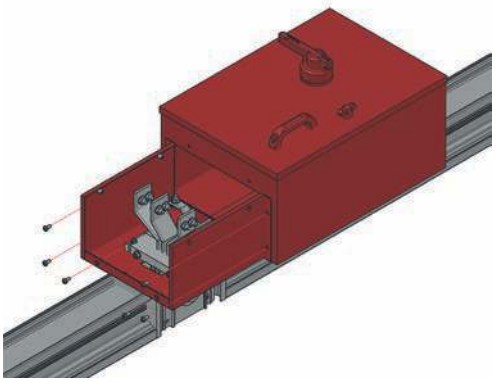
After tightening the bolt-on box to the joint, mount the grounding conductor as shown in the figure.

3



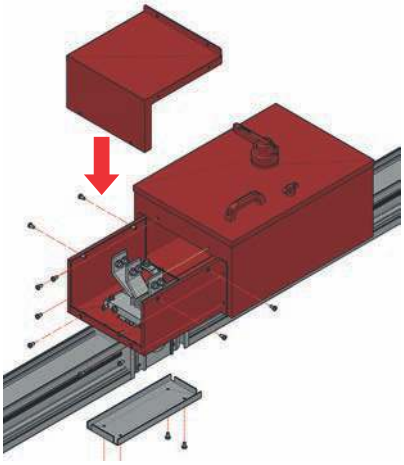
To complete the bolt-on assembly, place the joint box on the busbar and slide it towards the joint point.

4



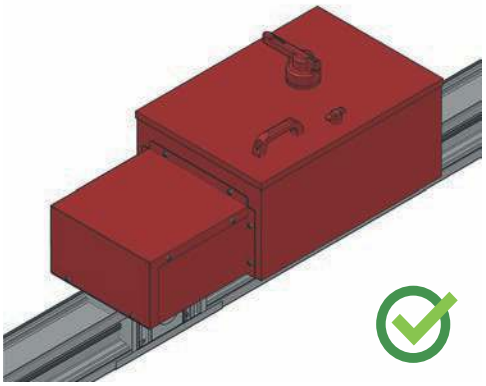
Tighten the joint box and bolt-on with M6x12 screws.

5



Fix the bolt-on cover. Then connect the busbar additional cover. Tighten with M6x12 screw.

6



After the bolt-on cover is installed, the assembly process ends.