

BUSBAR TRUNKING SYSTEMS

HP-K SERIES
400A-6300A

The smartest way of power distribution



Elekroteknik A.Ş

HP-K SERIES

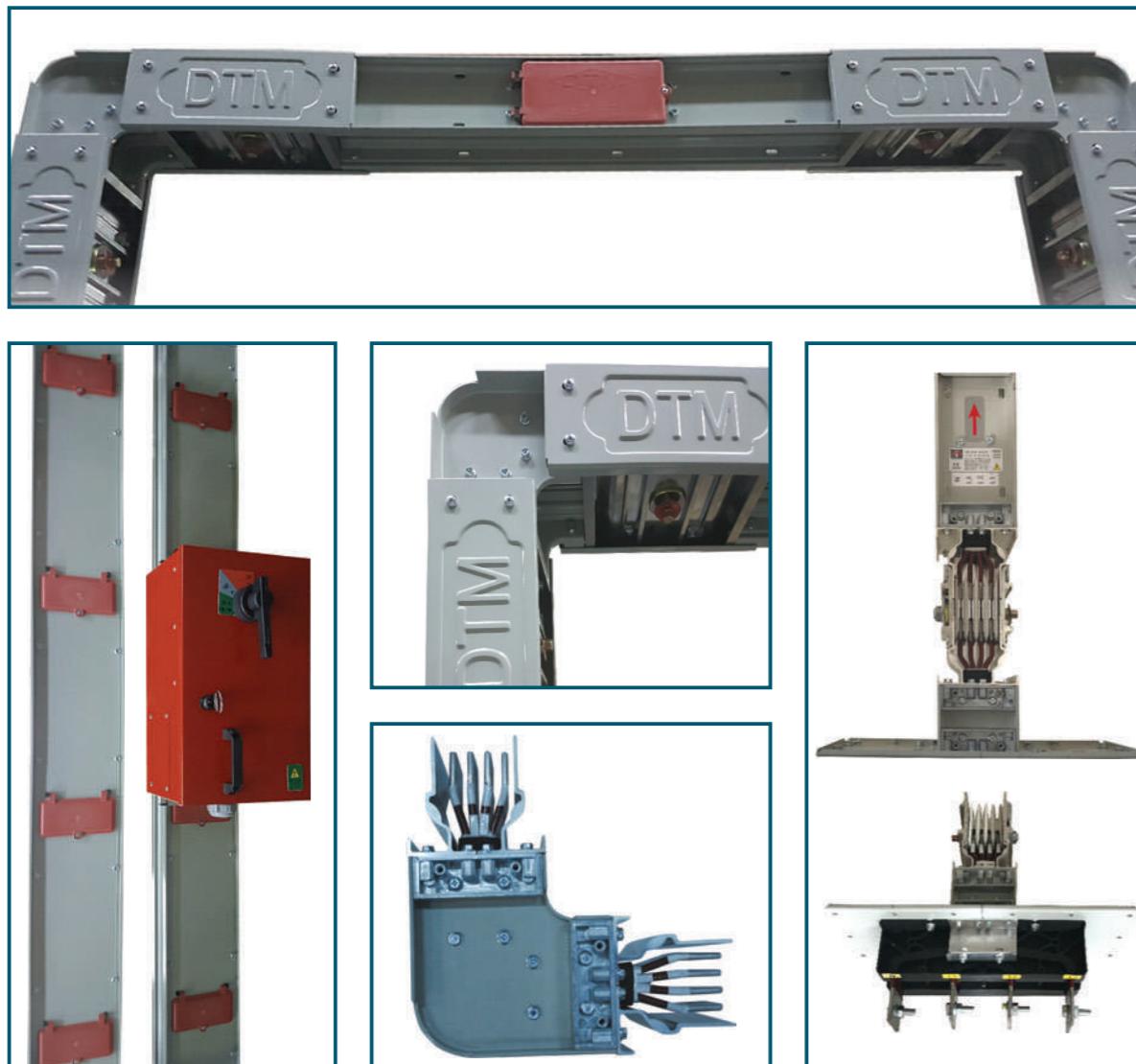
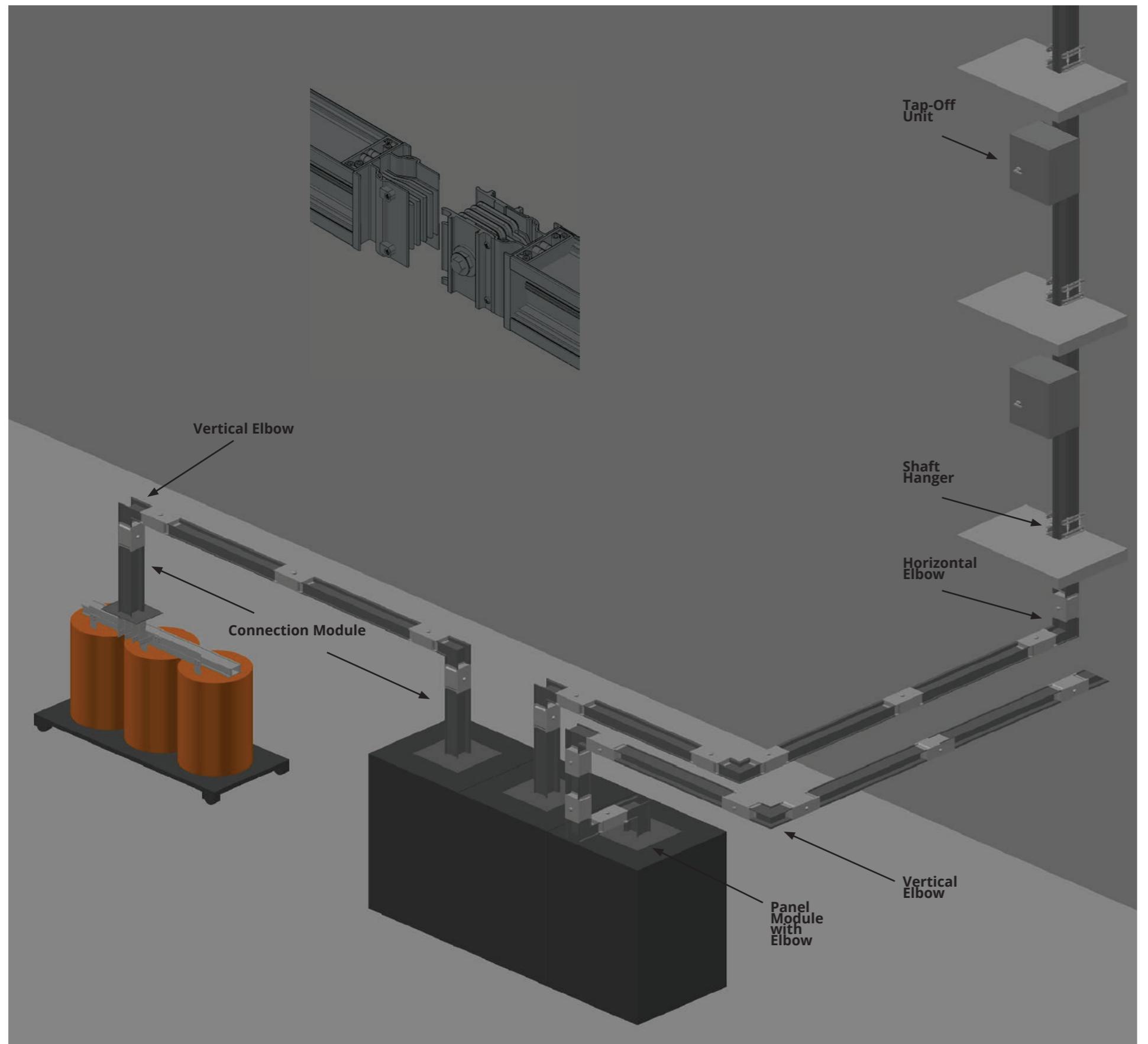


TABLE OF CONTENTS

General Information	4-7
Project Information	8-11
Fittings	
Straight Lengths	12
Elbow Modules	13-16
Panel Modules	17-20
Tee Modules	21
Expansion Module	22
Dilatation Module	22
Phase Transposition Module	22
Reduction Module	22
Transformer Module	23-25
Flanged End	25
Feeder Boxes	26-27
Tap-Off Units (Bolt-On)	28-29
Tap-Off Units (Plug-In)	30-31
Technical Data	
Product Features	32-34
Flexible Connection	35
Panel Bellows Flange	36
Hanger Kit	
Hangers	37-45
Information on Measuring Busbars	
Technical Tables	46-52
Information on Measuring Busbars	53
Installation Information	
Kit Installation	54-55
Quality Certificates	
Certificates	56-57
Dimensioning Template	58-59



General Information

DTM's HP-K Busbar Trunking System is designed as a sandwich construction that is compatible with complicated low voltage power distribution lines. Feeder and Plug-In types allow for easy joining operations. They offer efficiency in low voltage systems in industrial and commercial applications. Feeder and Plug-In are manufactured with Copper or Aluminum conductors from 400 amperes to 6300 amperes. In the 3-pole or 4-pole full neutral configuration, operating voltage is 1000 V. A standard 3P+N+PE housing is 50% of the phase earthing conductor. The enclosure is made of aluminum. The degree of protection is IP 55. However, IP 65 is available upon request.

Area of Use

Places with high current requirements such as between the transformer and the panel, high service buildings, trade centers, industrial plants, military establishments, public buildings, etc.

Feeder and Plug-In busbars have a sandwich construction, making installation easier. This construction keeps voltage drop characteristics at minimum and provides regular low reactive power factor. Construction ducts are made of aluminum profile, while top and bottom covers are designed as aluminum. Hysteresis currents and Eddy currents are minimized by means of diffusion inside the duct made of aluminum. In Feeder and Plug-In lengths, if 2 or 3 conductors are used for 1 phase, paralleling is performed at the end of each phase. (In case of phase conductor changes) It helps installing a tap-off unit to one side of the busbar and distributing the load of the busbar equally. The housing of a Plug-In length is equipped with covered windows that allow for straight installation and tap-off outlet. The joint accessories which are used for Feeder types are also suitable for use in Plug-In types. Plug-In and Feeder types can be assembled to each other.

Fully Closed Construction

DTM's HP-K Busbar Trunking System is designed as a fully closed system. This duct construction does not lower electrical values. Since there are no vent holes, its conductors do not contact with any foreign objects. The housing is close to the conductors. As a result, heat dissipates directly.

Paint

RAL 7038

DTM's HP-K Busbar Trunking System is epoxy coated.

Insulation and Product Features

All busbars are epoxy resin coated. The surface of all joints is tin plated for low contact resistance and surface corrosion minimization. Optionally, joint block conductors can be plated with silver.

Affordable

Compared to a cable trunking system, DTM's HP-K Busbar Trunking System saves more space and has a lower installation cost.

► Busbar Features

Voltage Drop

Thanks to the compact structure, reactance is considerably low, minimizing voltage drop and ensuring the transmission of power in the most efficient way. The cross section of the neutral conductor is same as that of the phase conductor. The cross section of the enclosure used for earthing is larger than that of the phase conductor.

Joints

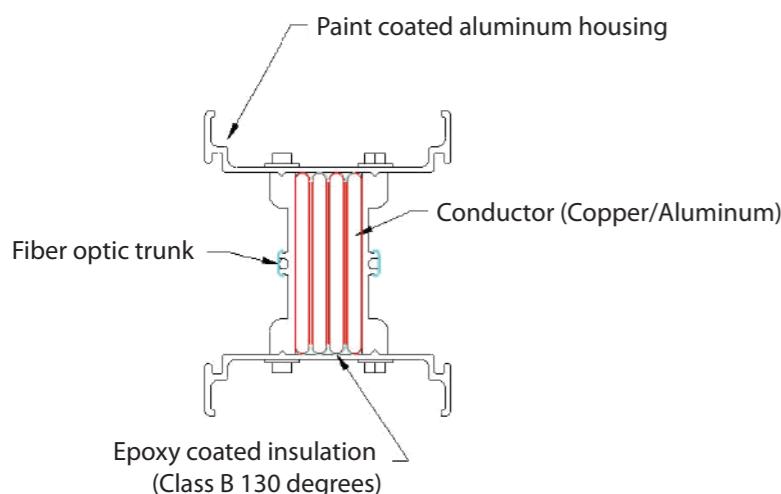
In external feeder busbars, all joints are sealed in order to stop rain water, offering protection and smoothness under all conditions.

Fittings

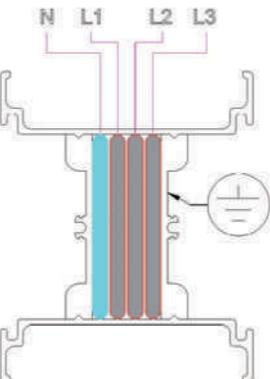
Elbows can be easily attached to the joint block.

Plug-Ins

Plug-ins are flameproof (V2) and resistant to adverse ambient conditions and high temperatures. They also resist to severe impacts. The degree of protection of the sealed protective cover, which is made of flame-retardant material, is IP 55. The pressure of the dovetail on the contact surface ensures permeability at spring level.

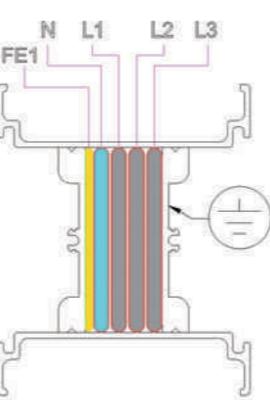


Products		
	AL	CU
400A	✓	✓
500A	✓	✓
630A	✓	✓
800A	✓	✓
1000A	✓	✓
1250A	✓	✓
1350A	✓	✓
1600A	✓	✓
2000A	✓	✓
2250A	✓	✓
2500A	✓	✓
2000A	✓	✓
2500A	✓	✓
3000A	✓	✓
3200A	✓	✓
3300A	✓	✓
3600A	✓	✓
4000A	✓	✓
4250A	✓	✓
5000A	✓	✓
6300A	-	✓
✓	Standard Production	



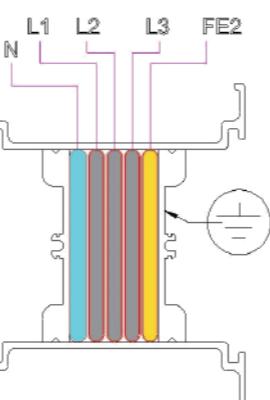
3P+N+PE (Housing) (4P) (T2)

The cross section of the neutral conductor is same as that of the phase conductor. The cross section of the enclosure used for earthing is larger than that of the phase conductor.



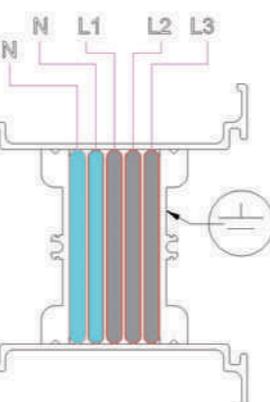
3P+N+FE1+PE (Housing) (5P) (T3)

The cross section of the neutral conductor is same as that of the phase conductor. The cross section of the earthing conductor is 1/2 of the neutral conductor. They are put into the same enclosure.



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

The cross section of the neutral conductor is same as that of the phase conductor and that of the earthing conductor. They are put into the same enclosure.



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

The cross section of the neutral conductor is same as or twice that of the phase conductor.

► Busbar Trunking System Selection

Ambient Conditions

Interior Installation	<input type="checkbox"/>
Exterior Installation	<input type="checkbox"/>
With Roof	<input type="checkbox"/>
Without Roof.....	<input type="checkbox"/>
Minimum Air Temperature	Interior °C Exterior..... °C
Maximum Air Temperature	Interior °C Exterior..... °C
Air Temperature Average of 24 Hours	Interior °C Exterior..... °C
Humidity Rate	Min..... °C Max..... °C
Country of Installation

Electrical Data

Nominal CurrentA
Starting CurrentA
Phase Poles	3P+Pe <input type="checkbox"/> 3P+N+Pe <input type="checkbox"/> 3P+Pen <input type="checkbox"/> 3P+2N+Pe <input type="checkbox"/> 3P+N+Fe/2+Pe <input type="checkbox"/> 3P+N+Fe+Pe <input type="checkbox"/>
Operating VoltageV
AC <input type="checkbox"/> DC <input type="checkbox"/>kA (1s)
Phase Short Circuit
Max. Voltage Drop	ΔV..... %
Minimum Degree of Protection	IP.....
Conductor Metals	AL <input type="checkbox"/> Copper <input type="checkbox"/>

Busbar Types

Feeder Busbar Transformer-to-Panel	<input type="checkbox"/>
Feeder Busbar Panel-to-Panel	<input type="checkbox"/>
Feeder Busbar Generator-to-Panel	<input type="checkbox"/>
Plug-In Busbar Tap-Off Units	<input type="checkbox"/>
Busbar Total Length
Feederm
Plug-inm
Elbowsm

Connection

Between Busbar and Panel	Yes <input type="checkbox"/> No <input type="checkbox"/>
Between busbar and transformer	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Transformer Resin	Yes <input type="checkbox"/> No <input type="checkbox"/>
Transformer Features	Yes <input type="checkbox"/> No <input type="checkbox"/>

Tap-Off Units

Empty, With Fuse Base	<input type="checkbox"/>
With Fuse Base, Fuse Switch Disconnector	<input type="checkbox"/>
With Automatic Switch, Empty	<input type="checkbox"/>
With Automatic Switch	<input type="checkbox"/>

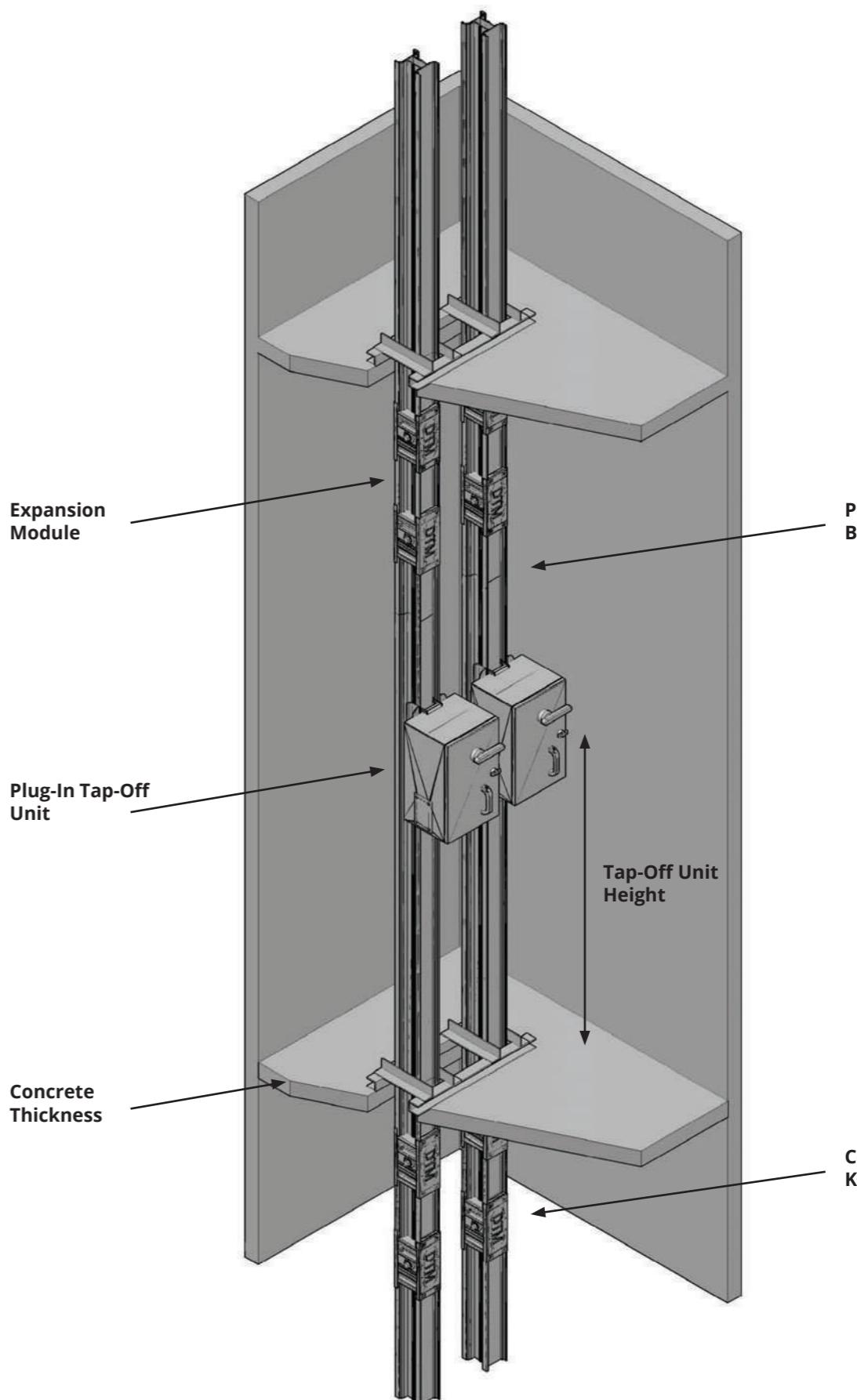
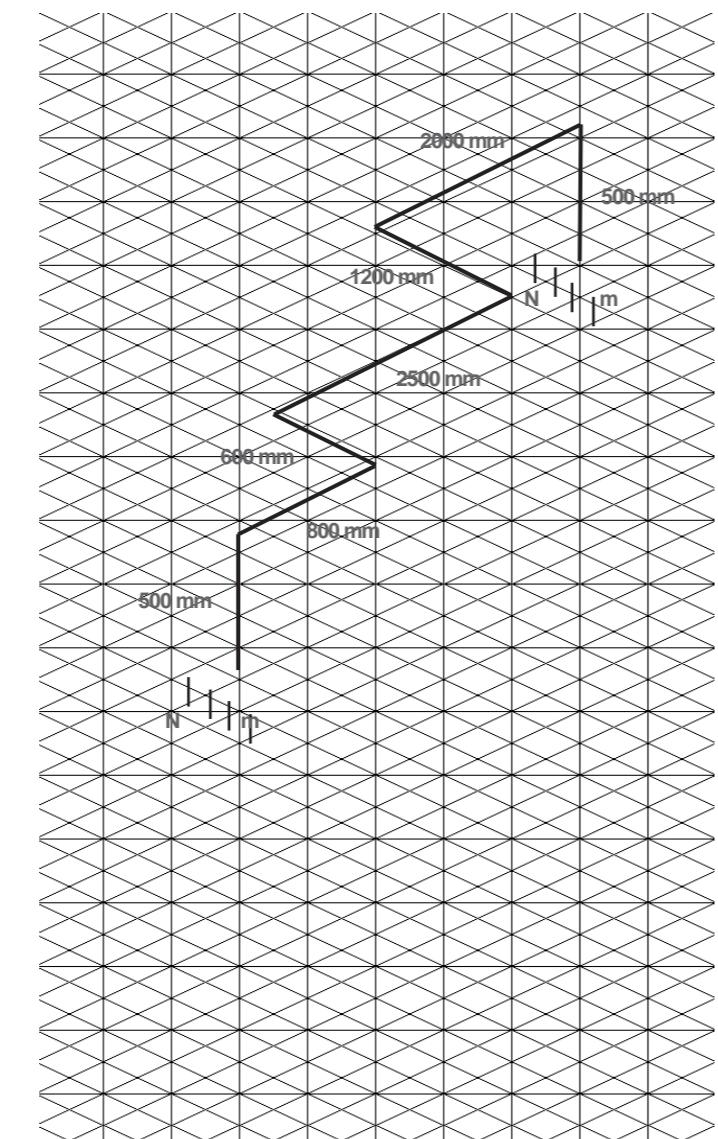
Hanger Kits

Ceiling Hanger Bracket	<input type="checkbox"/>
Wall Hanger Bracket	<input type="checkbox"/>

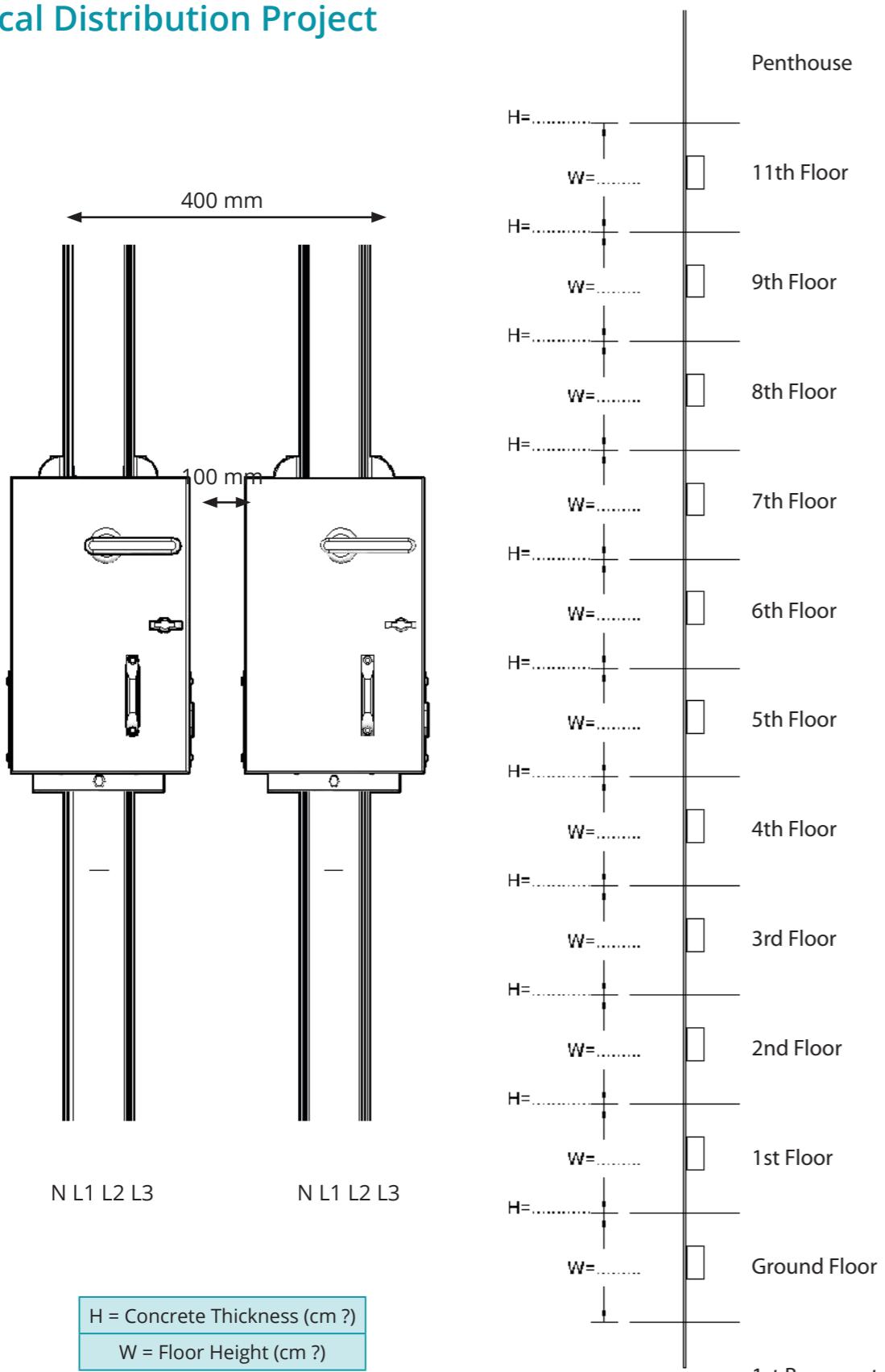
Busbar Types

Fire Barrier Unit min.	<input type="checkbox"/>
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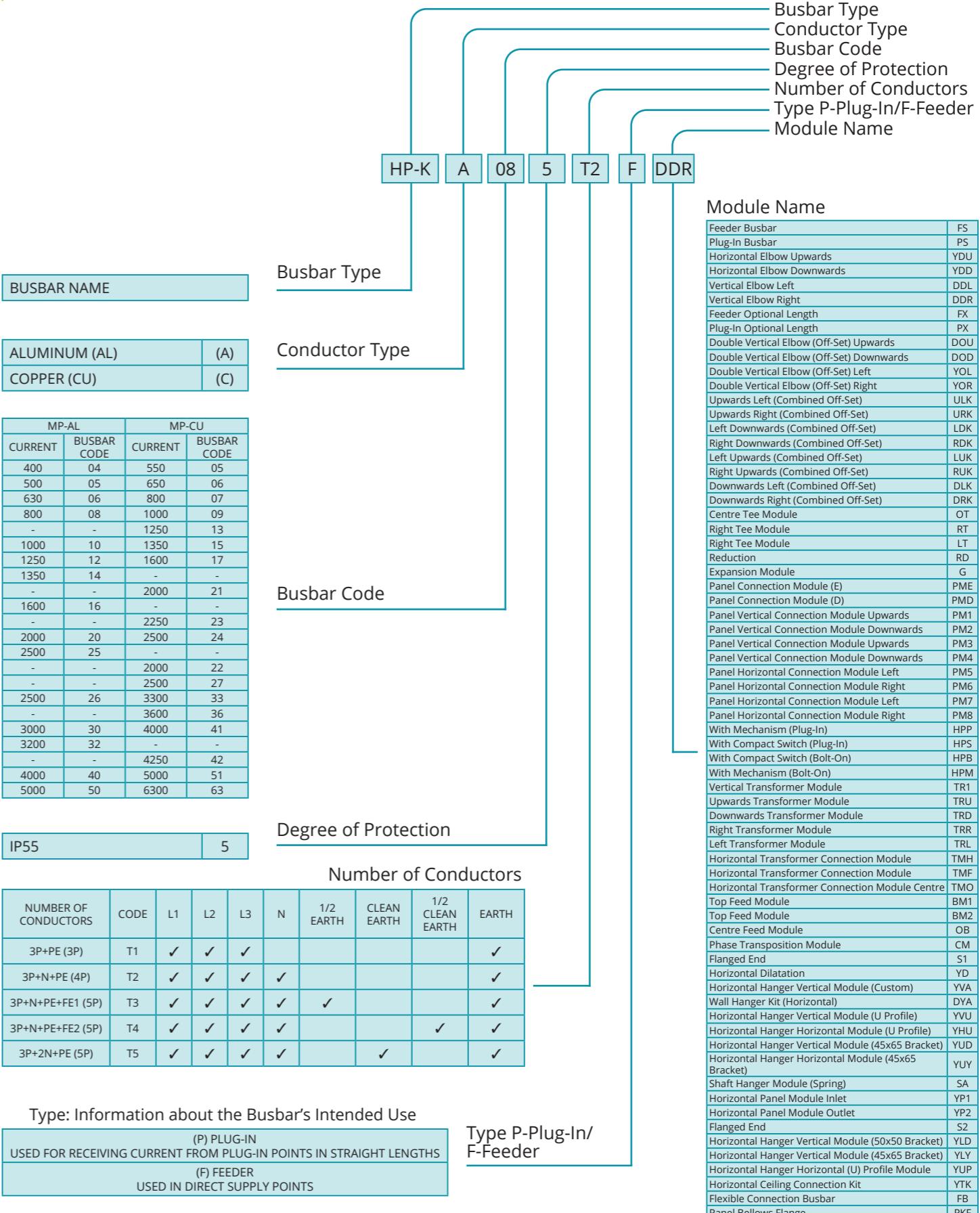
Elbow preliminary and isometric drawings for fittings.
Please draw the project detail dimensions as shown in the example.



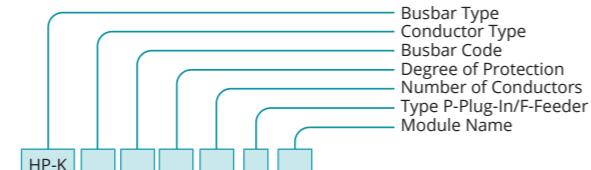
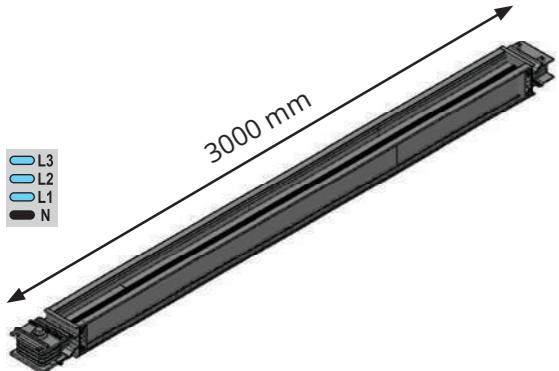
► Vertical Distribution Project



► Order Code System



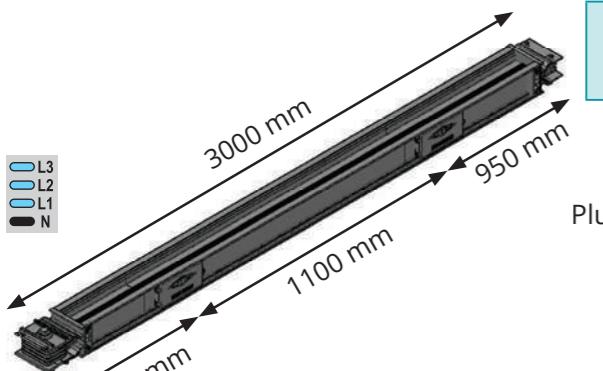
► Standard Length



Feeder Busbar | FS

SAMPLE ORDER

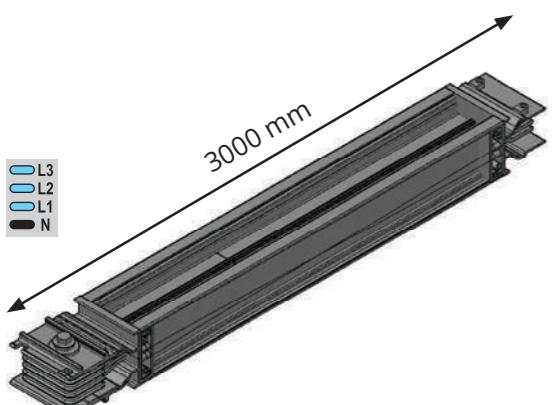
1600 A Aluminum,
Feeder IP 55 4 Conductor
HP-KA165T2FS



Plug-in Busbar | PS

SAMPLE ORDER

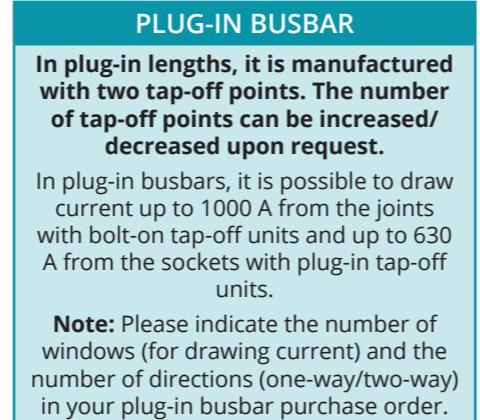
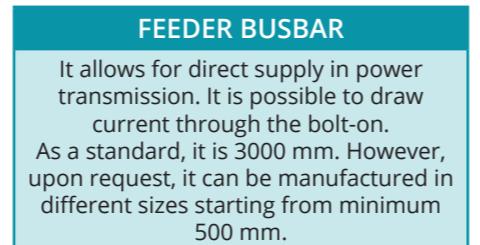
1250 A Aluminum,
Plug-In IP 55 4 Conductor
HP-KA125T2PS



Feeder Busbar
Optional Length | FX

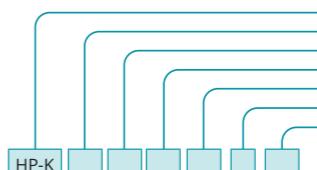
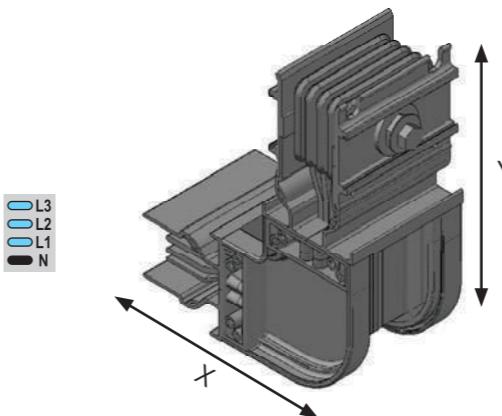
SAMPLE ORDER

2000 A Aluminum,
Feeder IP 55 4 Conductor
HP-KA205T2FX



Note:
Feeder Minimum Optional Length = 50 cm
Plug-In Minimum Optional Length = 100 cm

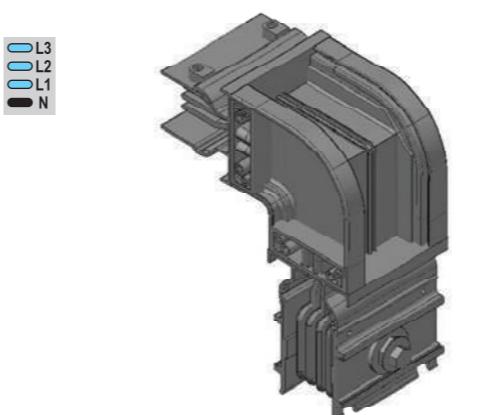
► Elbow Modules



Vertical Elbow
Left | DDL

SAMPLE ORDER

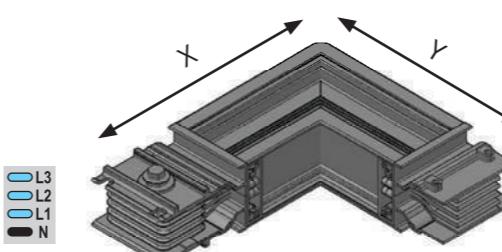
800 A Aluminum,
Elbow IP 55 4 Conductor
HP-KA085T2FDDL



Vertical Elbow
Right | DDR

SAMPLE ORDER

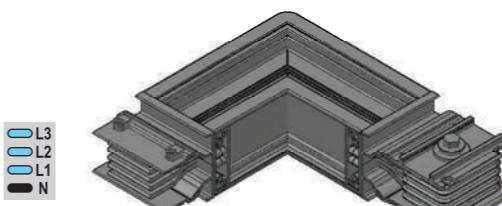
3200 A Aluminum,
Elbow IP 55 4 Conductor
HP-KA325T2FDDR



Horizontal Elbow
Upwards | YDU

SAMPLE ORDER

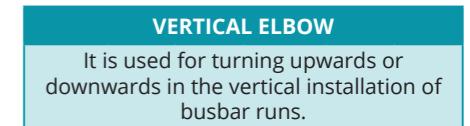
4250 A Aluminum,
Elbow IP 55 4 Conductor
HP-KA425T2FYDU



Horizontal Elbow
Downwards | YDD

SAMPLE ORDER

800 A Aluminum,
Elbow IP 55 4 Conductor
HP-KA085T2FYDD



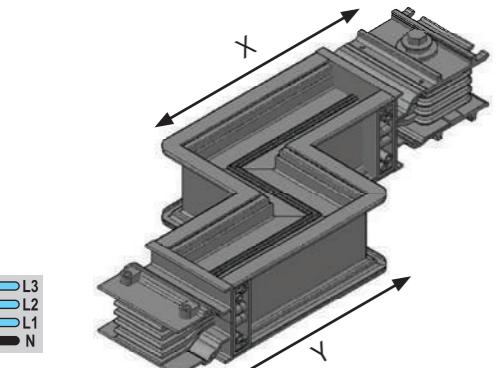
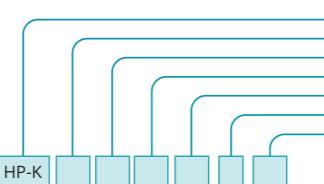
(AL)			(CU)		
AMR.	W mm	T mm	AMR.	W mm	T mm
400A	230	230	550A	230	230
500A	230	230	650A	230	230
630A	230	230	800A	230	230
800A	230	230	1000A	230	230
1000A	230	230	1250A	230	230
1250A	230	230	1350A	230	230
1350A	230	230	1600A	230	230
1600A	230	230	2000A	230	230
2000A	230	230	2250A	230	230
2500A	230	230	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
			4250A	230	230
			5000A	230	230
			6300A	230	230



(AL)			(CU)		
AMR.	W mm	T mm	AMR.	W mm	T mm
400A	248	248	550A	248	248
500A	248	248	650A	248	248
630A	248	248	800A	248	248
800A	255	255	1000A	255	255
1000A	268	268	1250A	263	263
1250A	283	283	1350A	268	268
1350A	290	290	1600A	283	283
1600A	308	308	2000A	298	298
2000A	328	328	2250A	308	308
2500A	353	353	2500A	328	328
2500A	342	342	2000A	302	302
3000A	387	387	2500A	328	328
3200A	407	407	3300A	357	357
4000A	447	447	3600A	372	372
5000A	565	565	4000A	387	387
			4250A	407	407
			5000A	447	447
			6300A	565	565

► Please contact us for custom-length modules.

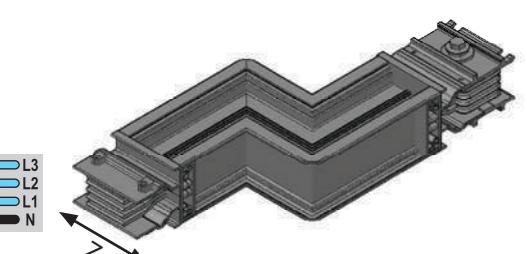
► Elbow Modules



Double Horizontal Elbow Left (Off-Set) YOL

SAMPLE ORDER

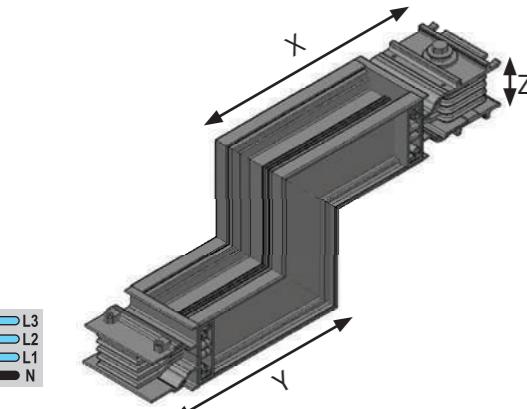
1000 A Aluminum,
Off-Set IP 55 4 Conductor
HP-KA105T2FYOL



Double Horizontal Elbow Right (Off-Set) YOR

SAMPLE ORDER

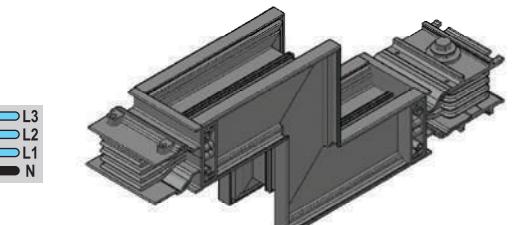
1600 A Aluminum,
Off-Set IP 55 4 Conductor
HP-KA165T2FYOR



Double Vertical Elbow Upwards (Off-Set) DOU

SAMPLE ORDER

2500 A Aluminum,
Off-Set IP 55 4 Conductor
HP-KA255T2FDOU



Double Vertical Elbow Downwards (Off-Set) DOD

SAMPLE ORDER

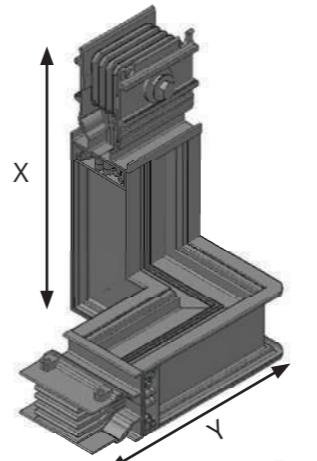
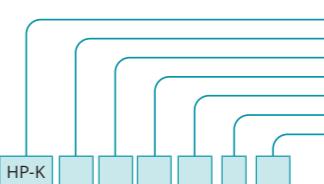
3000 A Aluminum,
Off-Set IP 55 4 Conductor
HP-KA305T2FDOD

DOUBLE HORIZONTAL ELBOW (OFF-SET)

It is used for turning right or left (with offset) in the horizontal installation of busbar runs.

AMR.	(AL)			(CU)			
	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	248	248	248	550A	248	248	248
500A	248	248	248	650A	248	248	248
630A	248	248	248	800A	248	248	248
800A	255	255	255	1000A	255	255	255
1000A	268	268	268	1250A	263	263	263
1250A	283	283	283	1350A	268	268	268
1350A	290	290	1600A	283	283	283	283
1600A	308	308	2000A	298	298	298	298
2000A	328	328	2250A	308	308	308	308
2500A	353	353	2500A	328	328	328	328
2500A	342	342	2000A	302	302	302	302
3000A	387	387	2500A	328	328	328	328
3200A	407	407	3300A	357	357	357	357
4000A	447	447	447	3600A	372	372	372
5000A	565	565	565	4000A	387	387	387
				4250A	407	407	407
				5000A	447	447	447
				6300A	565	565	565

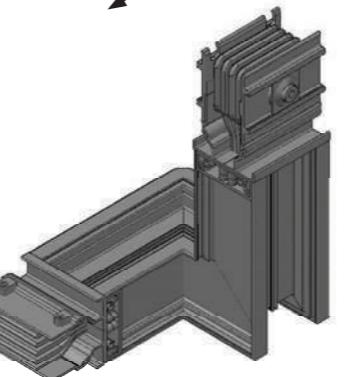
► Elbow Modules



Left Upwards (Combined Off-Set) LUK

SAMPLE ORDER

1250 A Aluminum, Combined Off-Set IP 55 4 Conductor
HP-KA125T2FLUK



Right Upwards (Combined Off-Set) RUK

SAMPLE ORDER

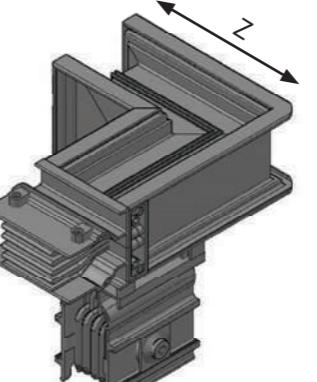
1000 A Aluminum, Combined Off-Set IP 55 4 Conductor
HP-KA105T2FRUK



RIGHT/LEFT UPWARDS COMBINED (OFF-SET)

It is used for turning right or left (with offset) in the horizontal installation of busbar runs.

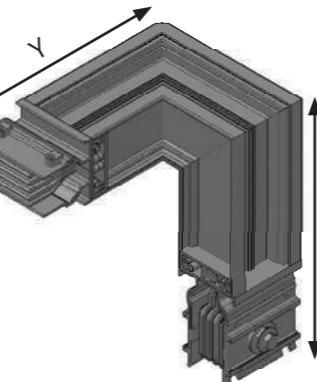
AMR.	(AL)			(CU)			
	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	248	248	300	550A	248	248	300
500A	248	248	300	650A	248	248	300
630A	248	248	300	800A	248	248	300
800A	255	255	300	1000A	255	255	300
1000A	268	268	300	1250A	263	263	300
1250A	283	283	300	1350A	268	268	300
1350A	290	290	300	1600A	283	283	300
1600A	308	308	300	2000A	298	298	300
2000A	328	328	300	2250A	308	308	300
2500A	353	353	300	2500A	328	328	300
2500A	342	342	300	2000A	302	302	300
3000A	387	387	300	2500A	328	328	300
3200A	407	407	300	3300A	357	357	300
4000A	447	447	300	3600A	372	372	300
5000A	565	565	300	4000A	387	387	300
				4250A	407	407	300
				5000A	447	447	300
				6300A	565	565	300



Left Downwards (Combined Off-Set) LDK

SAMPLE ORDER

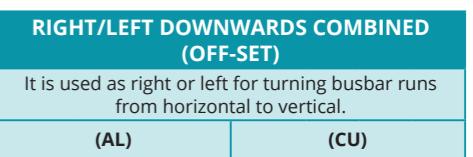
1600 A Aluminum, Combined Off-Set IP 55 4 Conductor
HP-KA165T2FLDK



Right Downwards (Combined Off-Set) RDK

SAMPLE ORDER

1350 A Aluminum, Combined Off-Set IP 55 4 Conductor
HP-KA145T2FRDK



RIGHT/LEFT DOWNWARDS COMBINED (OFF-SET)

It is used as right or left for turning busbar runs from horizontal to vertical.

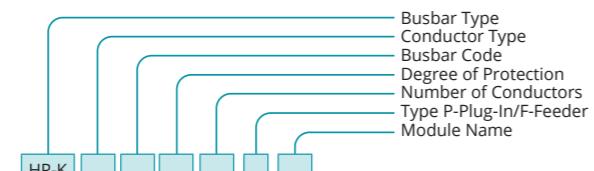
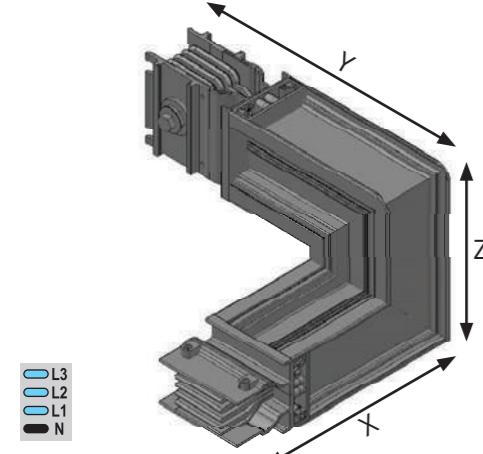
AMR.	(AL)			(CU)			
	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	248	248	300	550A	248	248	300
500A	248	248	300	650A	248	248	300
630A	248	248	300	800A	248	248	300
800A	255	255	300	1000A	255	255	300
1000A	268	268	300	1250A	263	263	300
1250A	283	283	300	1350A	268	268	300
1350A	290	290	300	1600A	283	283	300
1600A	308	308	300	2000A	298	298	300
2000A	328	328	300	2250A	308	308	300
2500A	353	353	300	2500A	328	328	300
2500A	342	342	300	2000A	302	302	300
3000A	387	387	300	2500A	328	328	300
3200A	407	407	300	3300A	357	357	300
4000A	447	447	300	3600A	372	372	300
5000A	565	565	300	4000A	387	387	300
				4250A	407	407	300
				5000A	447	447	300
				6300A	565	565	300

► Please contact us for custom-length modules.

The smartest way of power distribution

<a href="http://www.dtmb

► Elbow Modules



Upwards Left
(Combined
Off-Set) ULK

SAMPLE ORDER

2000 A Copper Combined
Off-Set IP 55 4 Conductor

HP-KC215T2FULK

Upwards Right
(Combined
Off-Set) URK

SAMPLE ORDER

1250 A Copper Combined
Off-Set IP 55 4 Conductor

HP-KC135T2FURK

Downwards Left
(Combined
Off-Set) DLK

SAMPLE ORDER

1600 A Copper Combined
Off-Set IP 55 4 Conductor

HP-KC175T2FDLK

Downwards Right
(Combined
Off-Set) DRK

SAMPLE ORDER

1250 A Aluminum, Combined
Off-Set IP 55 4 Conductor

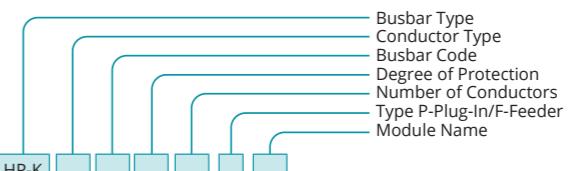
HP-KA125T2FDRK

UPWARDS RIGHT/LEFT COMBINED
(OFF-SET)

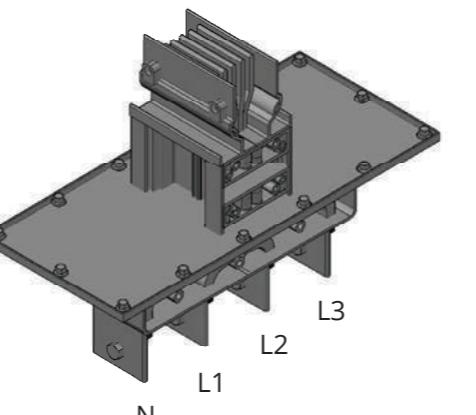
It is used as right or left for turning busbar runs
from horizontal to vertical.

(AL)				(CU)			
AMR.	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	248	248	300	550A	248	248	300
500A	248	248	300	650A	248	248	300
630A	248	248	300	800A	248	248	300
800A	255	255	300	1000A	255	255	300
1000A	268	268	300	1250A	263	263	300
1250A	283	283	300	1350A	268	268	300
1350A	290	290	300	1600A	283	283	300
1600A	308	308	300	2000A	298	298	300
2000A	328	328	300	2250A	308	308	300
2500A	353	353	300	2500A	328	328	300
2500A	342	342	300	2000A	302	302	300
3000A	387	387	300	2500A	328	328	300
3200A	407	407	300	3300A	357	357	300
4000A	447	447	300	3600A	372	372	300
5000A	565	565	300	4000A	387	387	300
				4250A	407	407	300
				5000A	447	447	300
				6300A	565	565	300

► Panel Modules



Vertical Panel
Module
Panel Inlet PME

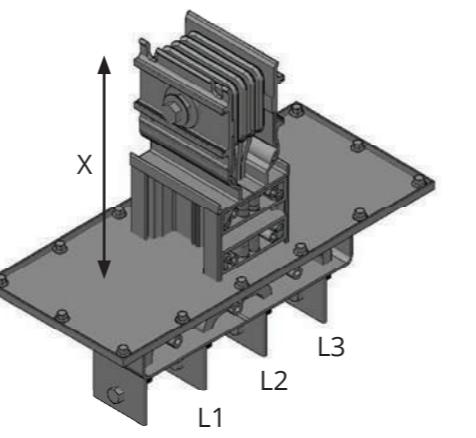


SAMPLE ORDER

1000 A Aluminum, Panel
Module IP 55 4 Conductor

HP-KA105T2FPME

Vertical Panel
Module
Panel Outlet PMD



SAMPLE ORDER

1250 A Aluminum, Panel
Module IP 55 4 Conductor

HP-KA125T2FPMD

VERTICAL PANEL MODULE

It is used for connecting straight lengths to the panel.

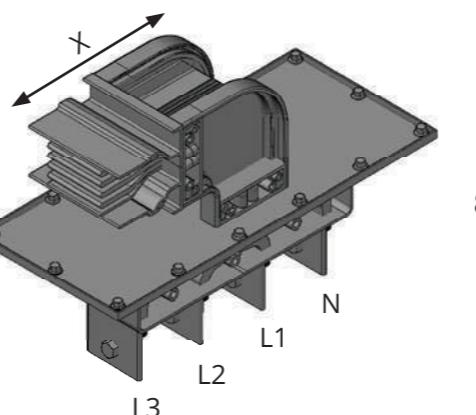
(AL)	(CU)		
AMR.	X mm	AMR.	X mm
400A	220	550A	220
500A	220	650A	220
630A	220	800A	220
800A	220	1000A	220
1000A	220	1250A	220
1250A	220	1350A	220
1350A	220	1600A	220
1600A	220	2000A	220
2000A	220	2250A	220
2500A	220	2500A	220
2500A	220	2000A	220
3000A	220	2500A	220
3200A	220	3300A	220
4000A	220	3600A	220
5000A	220	4000A	220
		4250A	220
		5000A	220
		6300A	220

UPWARDS PANEL MODULE

It is used for connecting straight lengths to the panel.

(AL)	(CU)				
AMR.	X mm	T mm	AMR.	X mm	T 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
			4250A	230	230
			5000A	230	230
			6300A	230	230

Vertical Panel
Module Upwards
Panel Inlet PM1



SAMPLE ORDER

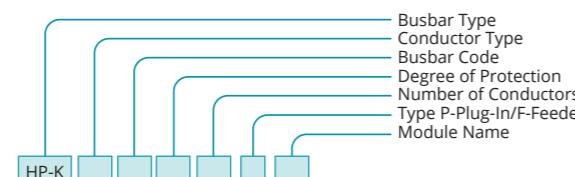
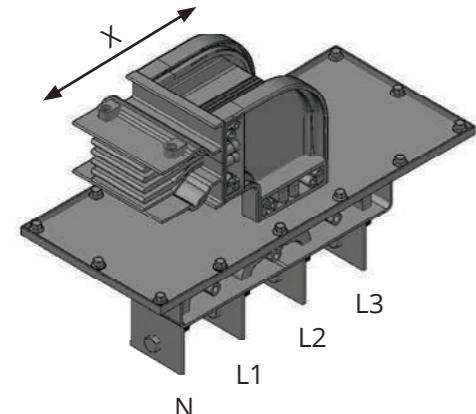
800 A Copper Panel Module IP
55 4 Conductor

HP-KC075T2FPM1

► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Panel Modules

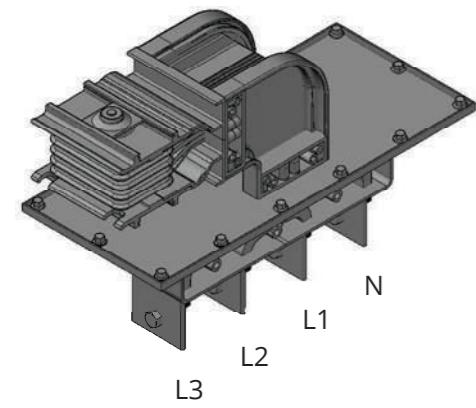


Vertical Panel
Module
Panel Inlet | PM2

SAMPLE ORDER

3000 A Aluminum, Panel
Module IP 55 4 Conductor

HP-KA305T2FPM2

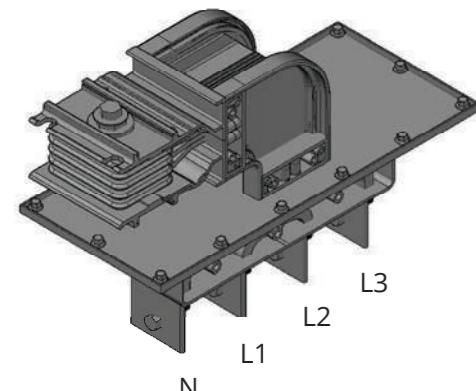


Vertical Panel
Module Upwards
Panel Outlet | PM3

SAMPLE ORDER

4000 A Aluminum, Panel
Module IP 55 4 Conductor

HP-KA405T2FPM3



Vertical Panel
Module Down-
wards Panel Inlet | PM4

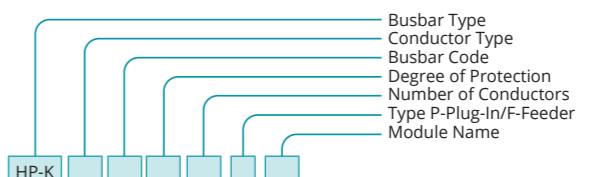
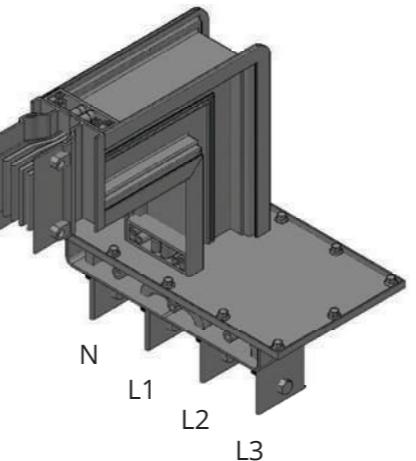
SAMPLE ORDER

1000 A Aluminum, Panel
Module IP 55 4 Conductor

HP-KA105T2FPM4

DOWNTOWARDS PANEL MODULE					
It is used for connecting straight lengths to the panel.					
(AL)			(CU)		
AMR.	X mm	T mm	AMR.	X mm	T 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
			4250A	230	230
			5000A	230	230
			6300A	230	230

► Panel Modules

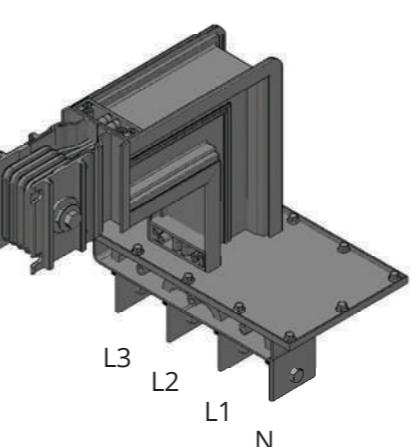


Horizontal Panel
Module Right
Panel Inlet | PM5

SAMPLE ORDER

2500 A Copper Panel Module
IP 55 4 Conductor

HP-KA275T2FPM5

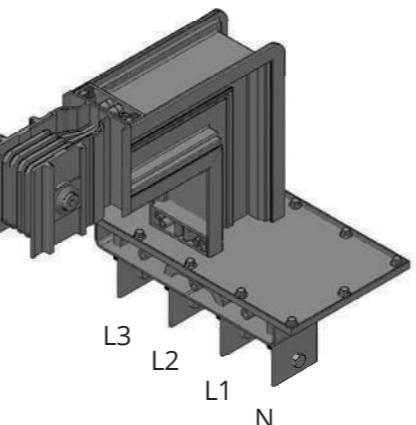


Horizontal Panel
Module Left Panel
Inlet | PM6

SAMPLE ORDER

1600 A Copper Panel Module
IP 55 4 Conductor

HP-KC175T2FPM6



Horizontal Panel
Module Right
Panel Outlet | PM7

SAMPLE ORDER

800 A Copper Panel Module IP
55 4 Conductor

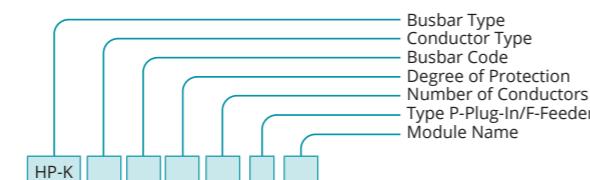
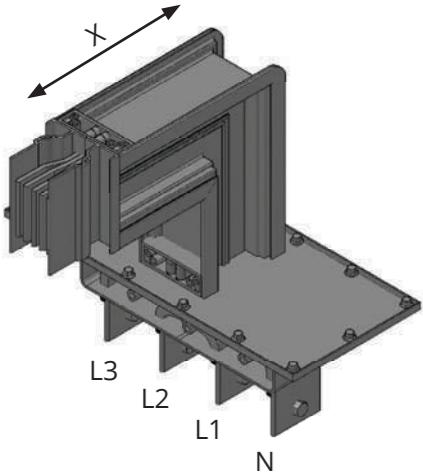
HP-KC075T2FPM7

UPWARDS PANEL MODULE					
It is used for connecting straight lengths to the panel.					
(AL)			(CU)		
AMR.	X mm	T mm	AMR.	X mm	T mm
400A	248	248	550A	248	248
500A	248	248	650A	248	248
630A	248	248	800A	248	248
800A	255	255	1000A	255	255
1000A	268	268	1250A	263	263
1250A	283	283	1350A	268	268
1350A	290	290	1600A	283	283
1600A	308	308	2000A	298	298
2000A	328	328	2250A	308	308
2500A	353	353	2500A	328	328
2500A	342	342	2000A	302	302
3000A	387	387	2500A	328	328
3200A	407	407	3300A	357	357
4000A	447	447	3600A	372	372
5000A	565	565	4000A	387	387
			4250A	407	407
			5000A	447	447
			6300A	565	565

► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Panel Modules

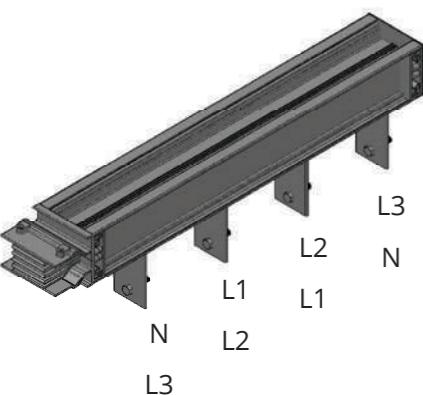


Horizontal Panel Module Left Panel Outlet PM8

SAMPLE ORDER

2000 A Aluminum Panel Module IP 55 4 Conductor

HP-KA205T2FPM8

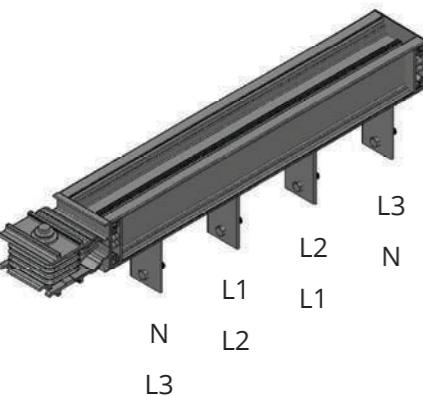
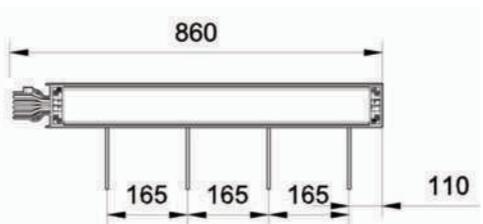


Horizontal Panel Module Inlet YP1

SAMPLE ORDER

3300 A Copper Panel Module IP 55 4 Conductor

HP-KC335T2FYP1

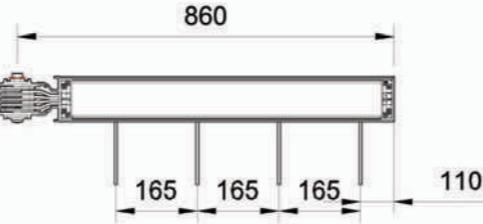


Horizontal Panel Module Outlet YP2

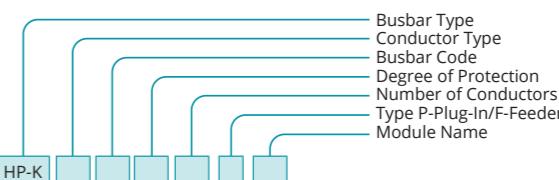
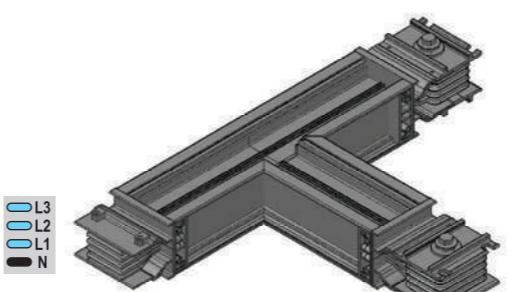
SAMPLE ORDER

4000 A Copper Panel Module IP 55 4 Conductor

HP-KC415T2FYP2



► Tee Modules

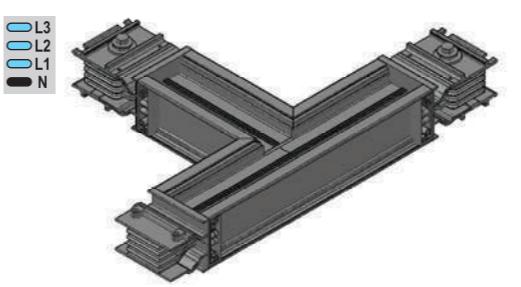


Right Tee Module RT

SAMPLE ORDER

1350 A Copper Tee Module IP 55 4 Conductor

HP-KC155T2FRT



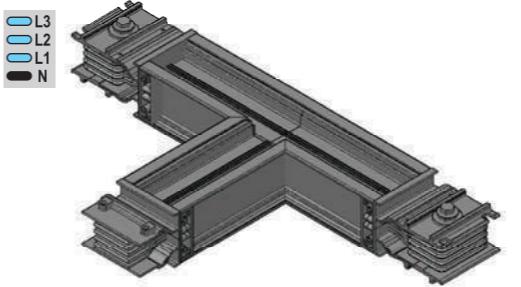
Left Tee Module LT

SAMPLE ORDER

1000 A Aluminum Tee Module IP 55 4 Conductor

HP-KA105T2FLT

HORIZONTAL TEE RIGHT/LEFT			
It is used for taking the line of busbar runs which is horizontally right or left (Tee).			
(AL)	X mm	Y mm	Z mm
AMR.	AMR.	X mm	Y mm
400A	225	225	225
500A	225	225	225
630A	225	225	225
800A	232	232	232
1000A	244	244	244
1250A	259	259	259
1350A	267	267	267
1600A	284	284	284
2000A	304	304	304
2500A	329	329	329
2500A	334	334	334
3000A	364	364	364
3200A	384	384	384
4000A	424	424	424
5000A	544	544	544
		4250A	384
		5000A	424
		6300A	544

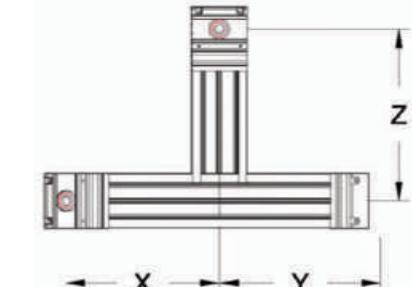


Centre Tee Module OT

SAMPLE ORDER

1250 A Aluminum Tee Module IP 55 4 Conductor

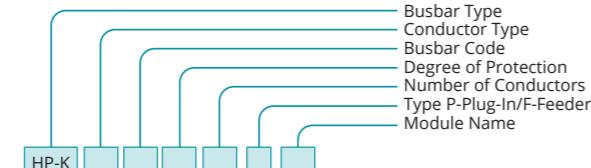
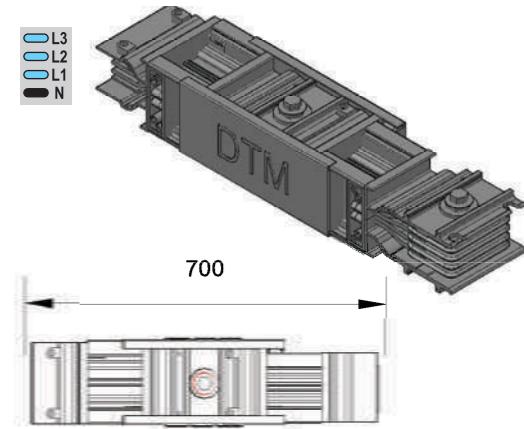
HP-KA125T2FOT



► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Standard Modules



Reduction Module 700 mm RD

SAMPLE ORDER
800 A Aluminum
Reduction IP 55 4 Conductor
HP-KA085T2FRD

Reduction Module Reduction Table

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

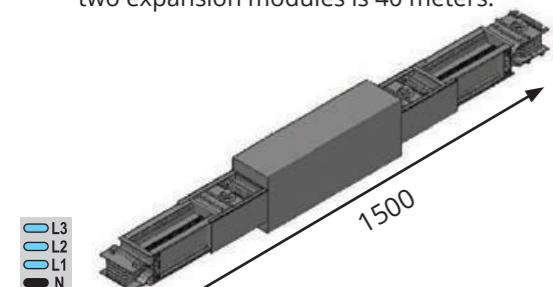
Expansion Module 700 mm G

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

Reduction Module Reduction Table

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

Horizontal Dilatation Information:
In long horizontal runs, the distance between two expansion modules is 40 meters.



Horizontal Dilatation Module 1500 mm YD

SAMPLE ORDER
1600 A Aluminum,
Dilatation IP 55 4 Conductor
HP-KA165T2FYD



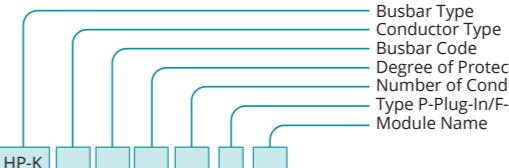
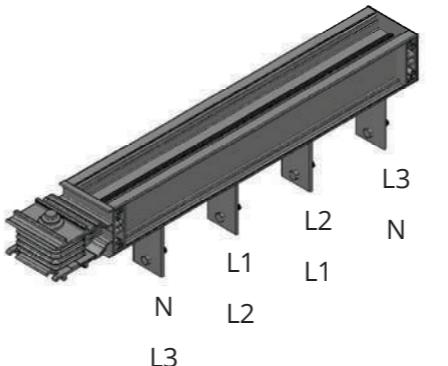
Phase Transposition Module 1500 mm CM

SAMPLE ORDER
1000 A Aluminum, Phase
Transposition IP 55 4
Conductor
HP-KA105T2FCM

► Please contact us for custom-length modules.

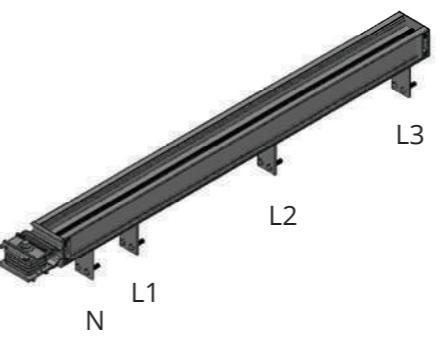
Busbar Type
Conductor Type
Busbar Code
Degree of Protection
Number of Conductors
Type P-Plug-In/F-Feeder
Module Name

► Transformer Modules



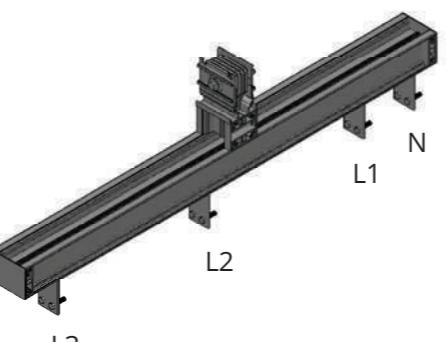
Horizontal Transformer Module TMH

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



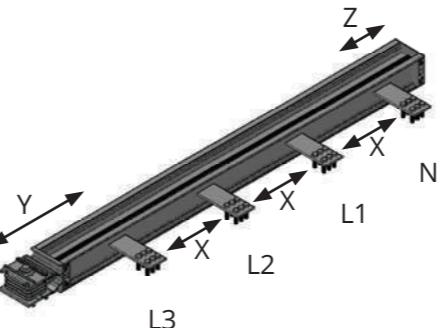
Horizontal Transformer Module TMF

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



Centre Transformer Module TMO

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

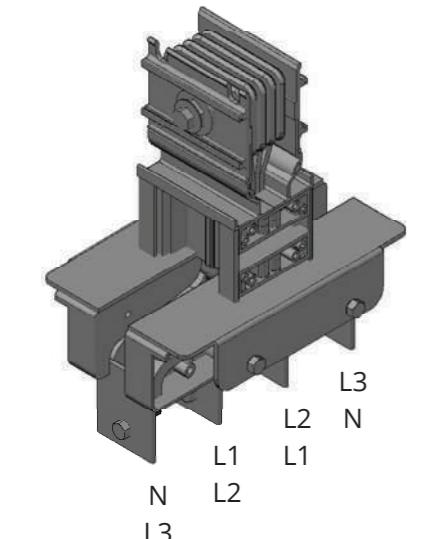


Vertical Transformer Module TMK

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

AMR.	(AL)			(CU)			
	X mm	Y mm	Z mm	AMR.	X mm	Y mm	Z mm
400A	100	275	135	550A	100	275	135
500A	100	275	135	650A	100	275	135
630A	100	275	135	800A	100	275	135
800A	115	280	140	1000A	115	280	140
1000A	140	295	155	1250A	130	290	150
1250A	170	305	170	1350A	140	295	150
1350A	185	315	175	1600A	170	310	170
1600A	220	335	195	2000A	200	325	185
2000A	260	355	215	2250A	220	335	195
2500A	310	380	240	2500A	260	355	215
2500A	170	310	170	2000A	115	280	140
3000A	200	325	185	2500A	140	295	155
3200A	220	335	195	3300A	170	310	170
4000A	260	355	215	3600A	185	315	180
5000A	260	355	215	4000A	200	325	185
				4250A	220	335	195
				5000A	260	355	215
				6300A	260	355	215

► Transformer Modules

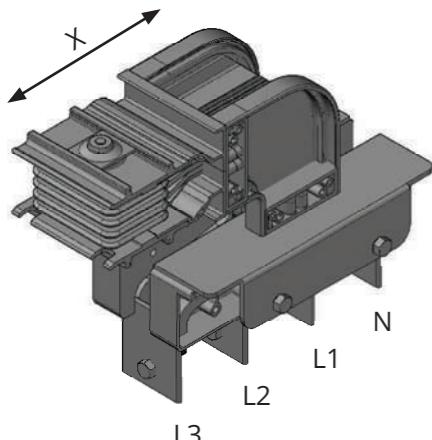


Vertical Transformer Module TR1

SAMPLE ORDER

1000 A Aluminum, Transformer Module IP 55 4 Conductor

HP-KA105T2FTR1

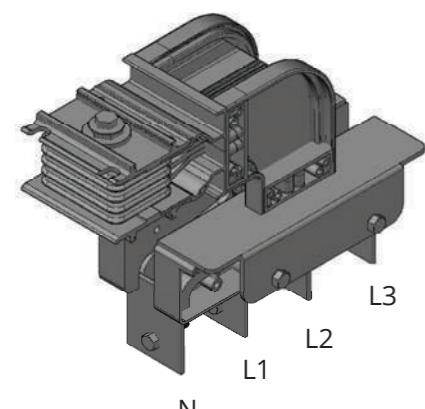


Upwards Transformer Module TRU

SAMPLE ORDER

2500 A Aluminum, Transformer Module IP 55 4 Conductor

HP-KA265T2FTRU

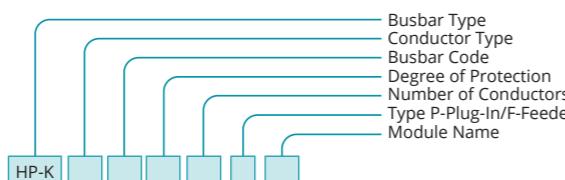


Downwards Transformer Module TRD

SAMPLE ORDER

2000 A Aluminum, Transformer Module IP 55 4 Conductor

HP-KA205T2FTRD



VERTICAL TRANSFORMER MODULE

It is used for connecting straight lengths to the panel.

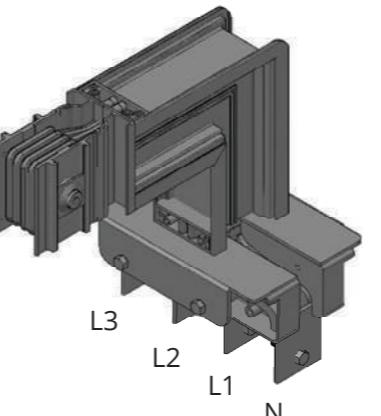
(AL)		(CU)	
AMR.	X mm	AMR.	X mm
400A	220	550A	220
500A	220	650A	220
630A	220	800A	220
800A	220	1000A	220
1000A	220	1250A	220
1250A	220	1350A	220
1350A	220	1600A	220
1600A	220	2000A	220
2000A	220	2250A	220
2500A	220	2500A	220
2500A	220	2000A	220
3000A	220	2500A	220
3200A	220	3300A	220
4000A	220	3600A	220
5000A	220	4000A	220
		4250A	220
		5000A	220
		6300A	220

UPWARDS/DOWNWARDS TRANSFORMER MODULE

It is used for connecting straight 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
			4250A	230	230
			5000A	230	230
			6300A	230	230

► Transformer Modules

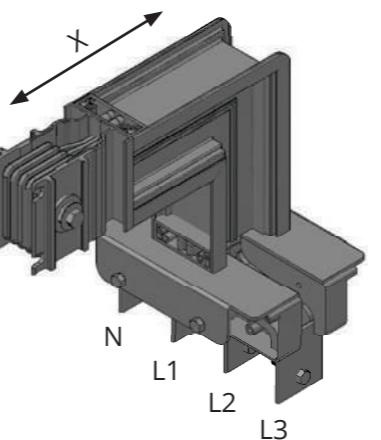


Right Transformer Module TRR

SAMPLE ORDER

3300 A Copper Transformer Module IP 55 4 Conductor

HP-KC335T2FTRR



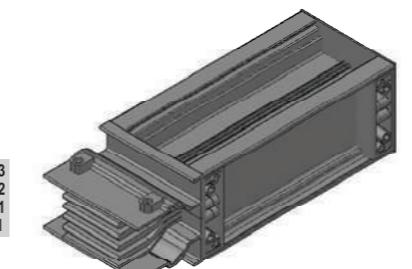
Left Transformer Module TRL

SAMPLE ORDER

1350 A Aluminum, Transformer Module IP 55 4 Conductor

HP-KA145T2FTRL

Flanged End S1

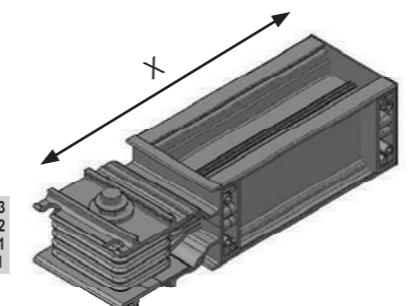


SAMPLE ORDER

800 A Aluminum, Flanged End IP 55 4 Conductor

HP-KA085T2FS1

Flanged End S2



SAMPLE ORDER

1000 A Aluminum, Flanged End IP 55 4 Conductor

HP-KA105T2FS2

FLANGED END

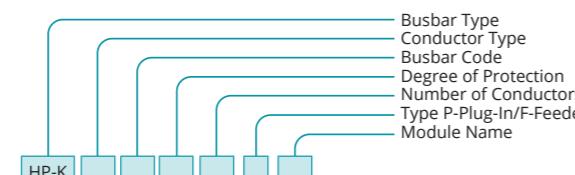
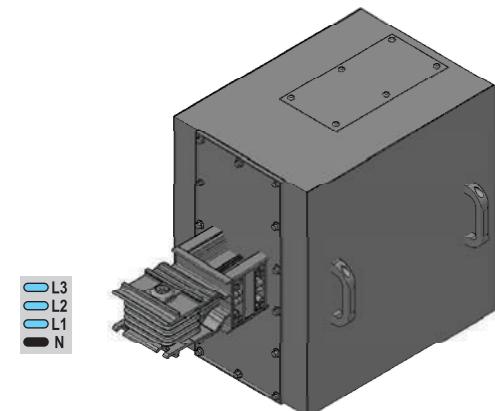
It is used for terminating the line ends.

(AL)		(CU)	
AMR.	X mm	AMR.	X mm
400A	150	550A	150
500A	150	650A	150
630A	150	800A	150
800A	150	1000A	150
1000A	150	1250A	150
1250A	150	1350A	150
1350A	150	1600A	150
1600A	150	2000A	150
2000A	150	2250A	150
2500A	150	2500A	150
2500A	150	2000A	150
3000A	150	2500A	150
3200A	150	3300A	150
4000A	150	3600A	150
5000A	150	4000A	150
		4250A	150
		5000A	150
		6300A	150

► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Feeder Box

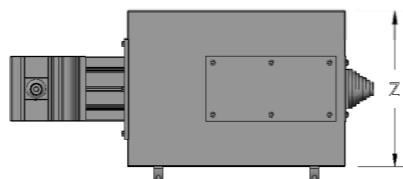


Feeder Box | BM1

SAMPLE ORDER

1350 A Aluminum, Feeder
Module IP 55 4 Conductor

HP-KA145T2R1BM1



L3
L2
L1
N

CABLE GLAND PLATES

(AL)	(CU)
AMR.	Cable Gland Type
AMR.	AMR. Rekor Tipi
400A	R1
500A	R1
630A	R1
800A	R1
1000A	R1
1250A	R1
1350A	R1
1350A	R2
1600A	R2
1600A	R2
2000A	R2
2000A	R2
2500A	R3
2500A	R2
2500A	R3
3000A	R3
3200A	R3
4000A	R3
5000A	R5
	4250A R3
	5000A R3
	6300A R4

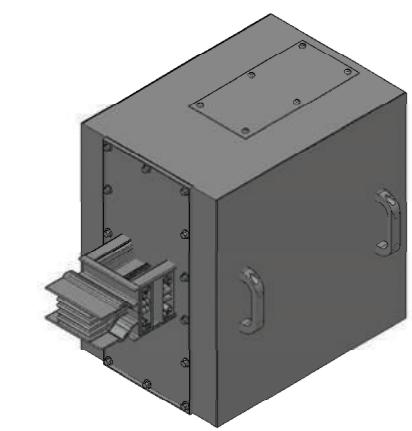


Feeder Box | BM2

SAMPLE ORDER

800 A Aluminum, Feeder
Module IP 55 4 Conductor

HP-KA085T2R1BM2



L3
L2
L1
N

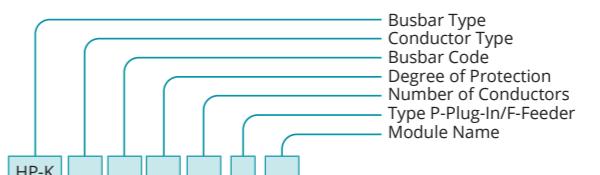
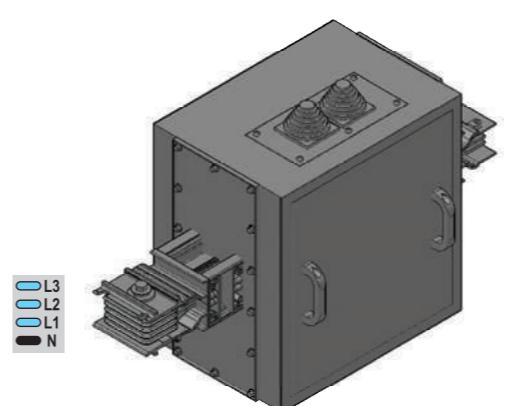
UPWARDS/DOWNWARDS TRANSFORMER MODULE

(AL)				(CU)					
AMR.	L mm	T mm	Z mm	W mm	AMR.	L mm	T mm	Z mm	W mm
400A	520	560	360	370	550A	520	560	360	370
500A	520	560	360	370	650A	520	560	360	370
630A	520	560	360	370	800A	520	560	360	370
800A	520	560	360	370	1000A	520	560	360	370
1000A	520	560	360	370	1250A	520	560	360	370
1250A	520	560	360	370	1350A	520	560	360	370
1350A	520	560	360	370	1600A	520	560	360	370
1600A	520	560	360	370	2000A	520	560	360	370
2000A	520	560	360	370	2250A	520	560	360	370
2500A	520	560	360	370	2500A	520	560	360	370
2500A	520	560	360	370	2000A	520	560	360	370
3000A	720	560	780	570	2500A	520	560	360	370
3200A	720	560	780	570	3300A	520	560	360	370
4000A	720	560	780	570	3600A	720	560	360	570
5000A	720	560	960	570	4000A	720	560	780	570
					4250A	720	560	780	570
					5000A	720	560	780	570
					6300A	720	560	960	570

► Please contact us for custom-length modules.

The smartest way of power distribution

► Feeder Box

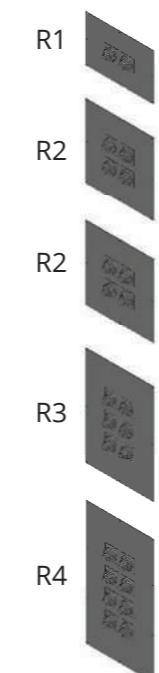
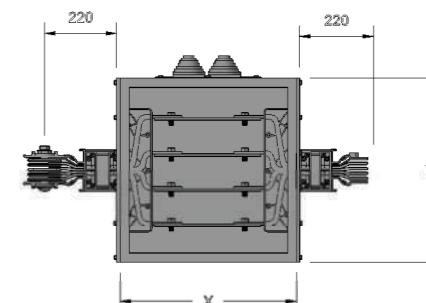
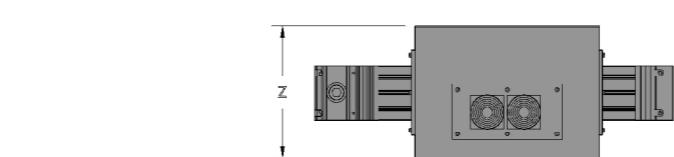


Centre Feeder Box | OB

SAMPLE ORDER

800 A Aluminum, Feeder
Module IP 55 4 Conductor

HP-KA085T2R1OB



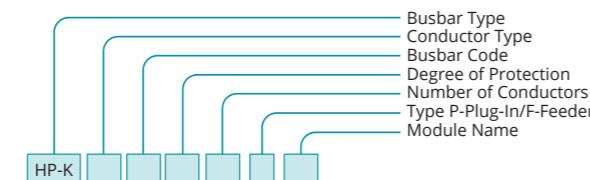
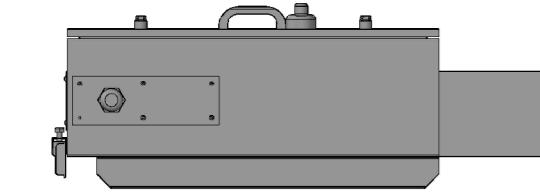
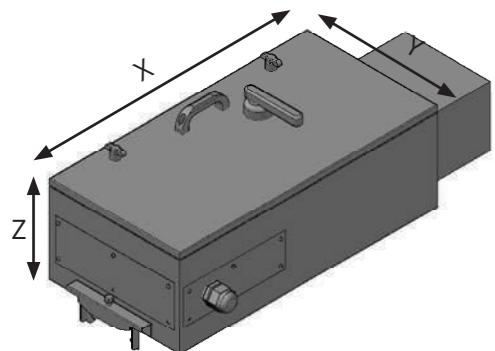
(AL)		(CU)	
AMR.	Cable Gland Type	AMR.	Rekor Tipi
400A	R1	550A	R1
500A	R1	650A	R1
630A	R1	800A	R1
800A	R1	1000A	R1
1000A	R1	1250A	R1
1250A	R1	1350A	R1
1350A	R2	1600A	R1
1600A	R2	2000A	R2
2000A	R2	2250A	R2
2500A	R3	2500A	R2
3000A	R3	2500A	R2
3200A	R3	3300A	R3
4000A	R3	3600A	R3
5000A	R5	4000A	R3
	4250A R3		
	5000A R3		
	6300A R4		

(AL)		(CU)	
AMR.	L mm	T mm	Z mm
400A	520	560	360
500A	520	560	360
630A	520	560	360
800A	520	560	360
1000A	520	560	360
1250A	520	560	360
1350A	720	560	560
1600A	720	560	560
2000A	720	560	560
2500A	720	560	560
2500A	720	560	560
3000A	870	560	780
3200A	870	560	780
4000A	870	560	780
5000A	870	560	960
	4250A	870	560
	5000A	870	560
	6300A	870	560

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► Tap-Off Unit,
With Compact
Switch (Bolt-On)



With Compact Switch (Bolt-On)	HPB
----------------------------------	-----

SAMPLE ORDER

250 A Tap-Off Unit
Empty IP 55 4 Conductor
HPB255T2R3B

SWITCH TYPE CODE	
With Switch	Empty
S	B

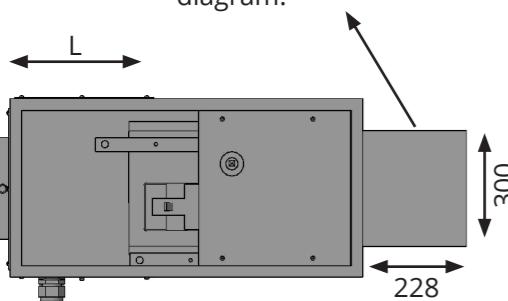
R1	
R2	
R3	
R4	
R5	
R7	
R7	

CABLE GLAND PLATES

Cable Gland Type	Code No
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X8	R5
RG48X3	R6
RG36X4	R7

Note:

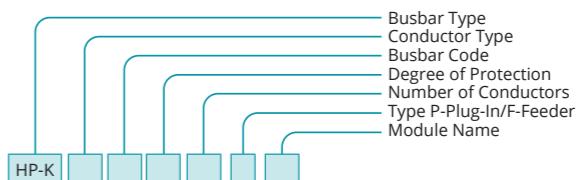
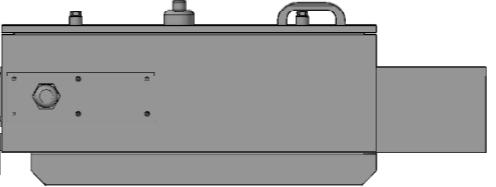
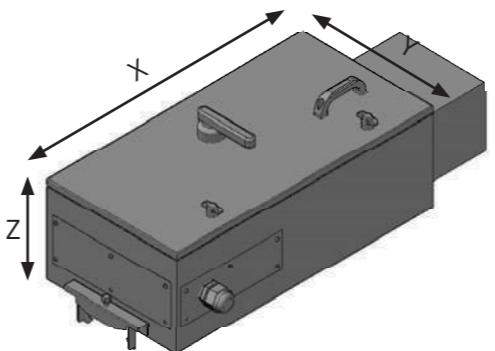
DTM's bolt-on tap-off unit must be installed in the place of installation in addition to the joint block in accordance with the technical diagram.



Amp.	Unit Code	T mm	Z mm	W mm	L mm
250	HPB25	450	385	260	150
400	HPB40	560	385	260	200
630	HPB63	560	385	260	200
800	HPB80	700	425	260	250
1000	HPB10	700	425	260	250

► Please contact us for custom-length modules.

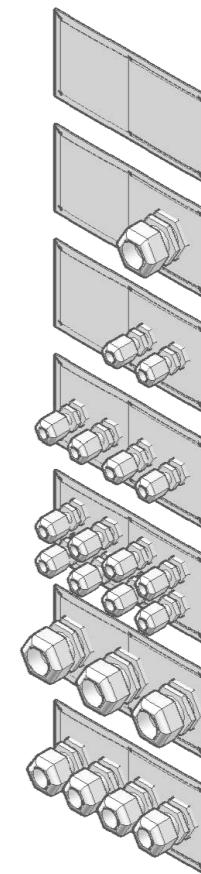
► Tap-Off Unit, With
DTM Mechanism
(Bolt-On)



With Mechanism (Bolt-On)	HPM
-----------------------------	-----

SAMPLE ORDER

400 A Tap-Off Unit
Empty IP 55 4 Conductor
HPM405T2R4B



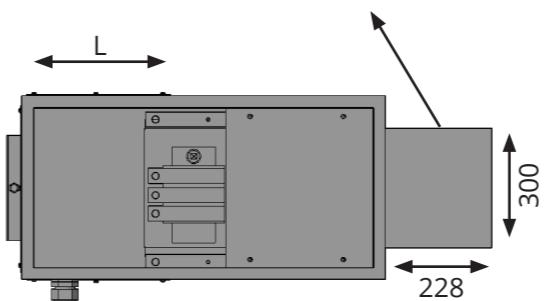
SWITCH TYPE CODE	
With Switch	Empty

R1	
R2	
R3	
R4	
R5	
R7	
R7	

CABLE GLAND PLATES	
Cable Gland Type	Code No
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X8	R5
RG48X3	R6
RG36X4	R7

Note:

DTM's bolt-on tap-off unit must be installed in the place of installation in addition to the joint block in accordance with the technical diagram.



Amp.	Unit Code	T mm	Z mm	W mm	L mm
160	HPMB16	500	385	260	150
250	HPMB25	500	385	260	150
400	HPMB40	760	425	260	200
630	HPMB63	760	425	260	200

Note:

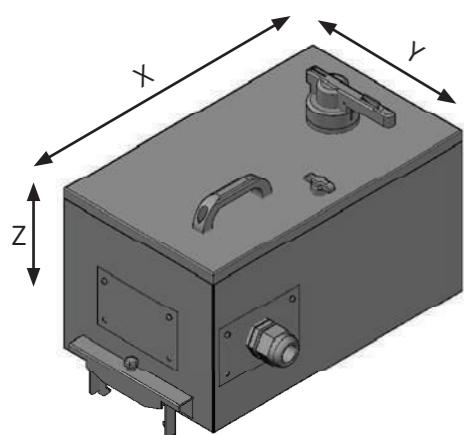
DTM's bolt-on tap-off units cannot be mechanically attached to/detached from the busbar when they are "ON".

There is a special mechanism to turn these units off when the units are set to "OFF" and the units are powered by the same mechanism when they are set to "ON".

The units equipped with a standard mechanism are delivered as empty. Before attaching such units to the busbar, a fuse switch disconnector, a group of switches or a similar protective unit must be placed into them.

► Please contact us for custom-length modules.

► Tap-Off Unit,
With Compact
Switch (Plug-In)

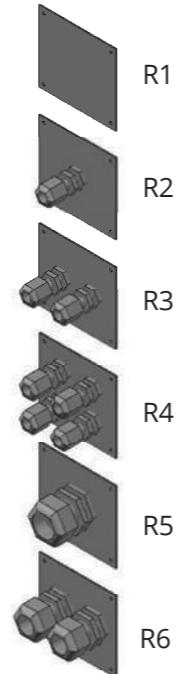


HP-K						
	Busbar Type					
	Conductor Type					
	Busbar Code					
	Degree of Protection					
	Number of Conductors					
	Type P-Plug-In/F-Feeder					
	Module Name					

With Compact
Switch (Plug-In)

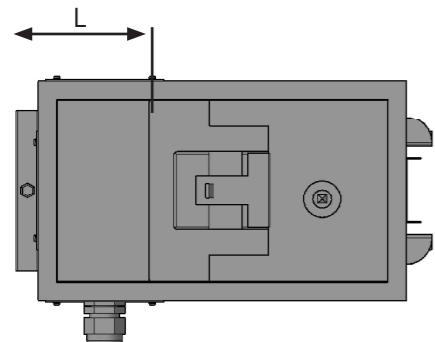
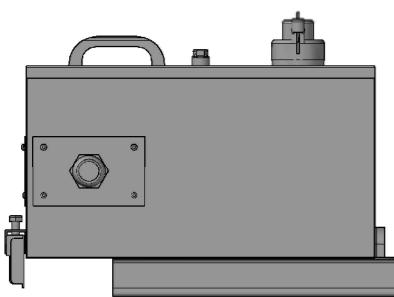
HPS

SAMPLE ORDER

630 A Tap-Off Unit With Switch
IP 55 4 Conductor**HPS635T2R5S**

SWITCH TYPE CODE	
With Switch	Empty
S	B

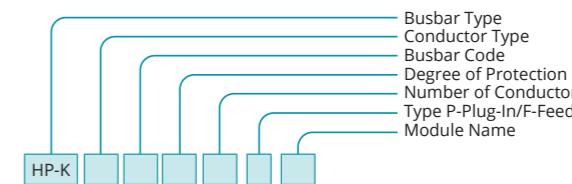
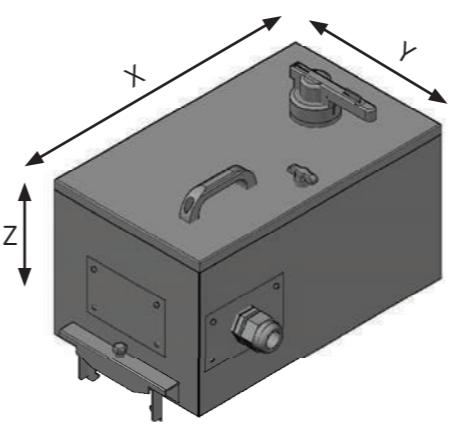
CABLE GLAND PLATES	
Cable Gland Type	Code No
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X1	R5
RG48X2	R6



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

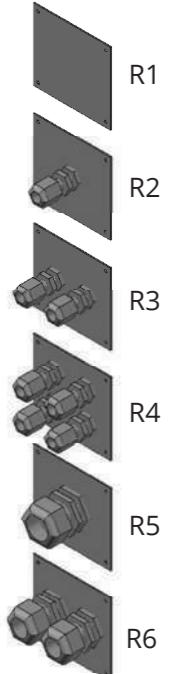
► Please contact us for custom-length modules.

► Tap-Off Unit, With
DTM Mechanism
(Plug-In)



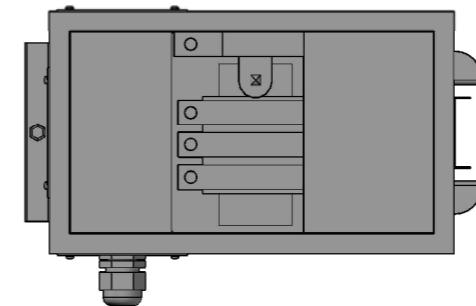
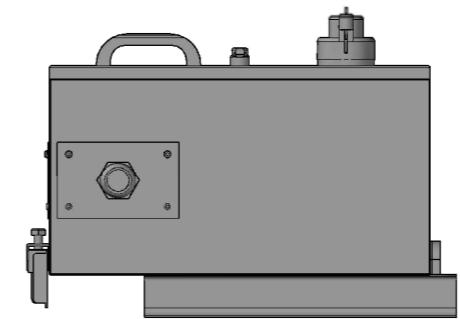
With Mechanism (Plug-In)	HPP
-----------------------------	-----

SAMPLE ORDER

160 A Tap-Off Unit
Empty IP 55 4 Conductor**HPP16T2R2B**

SWITCH TYPE CODE	
With Switch	Empty
S	B

CABLE GLAND PLATES	
Cable Gland Type	Code No
-	R1
RG36X1	R2
RG29X2	R3
RG21X4	R4
RG29X1	R5
RG48X2	R6



Amp.	Unit Code	T mm	Z mm	W 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

Note:

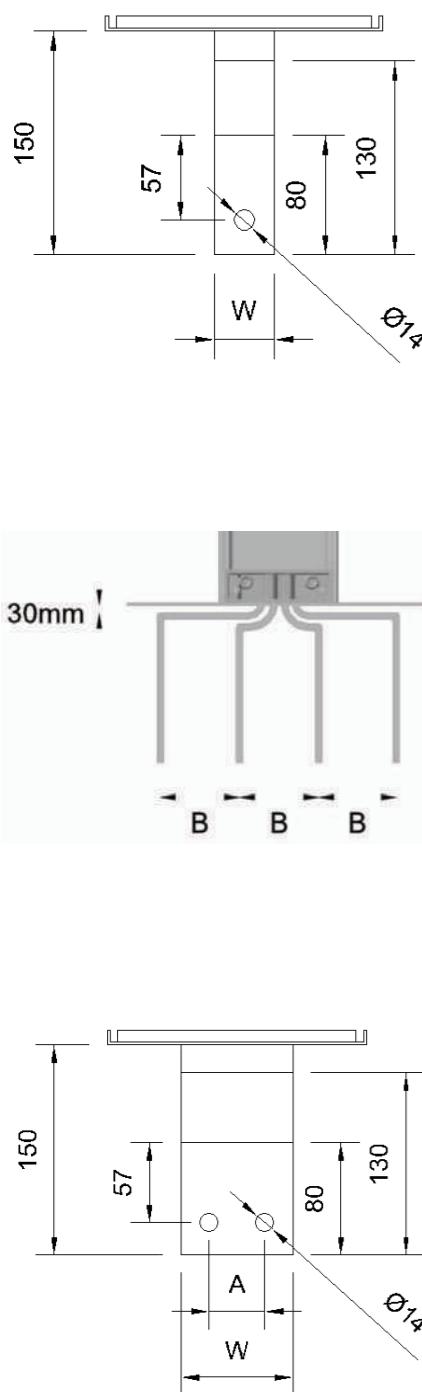
DTM's bolt-on tap-off units cannot be mechanically attached to/detached from the busbar when they are "ON".

There is a special mechanism to turn these units off when the units are set to "OFF" and the units are powered by the same mechanism when they are set to "ON".

The units equipped with a standard mechanism are delivered as empty. Before attaching such units to the busbar, a fuse switch disconnector, a group of fuses or a similar protective unit must be placed into the units.

► Please contact us for custom-length modules.

► Panel Module Dimensions



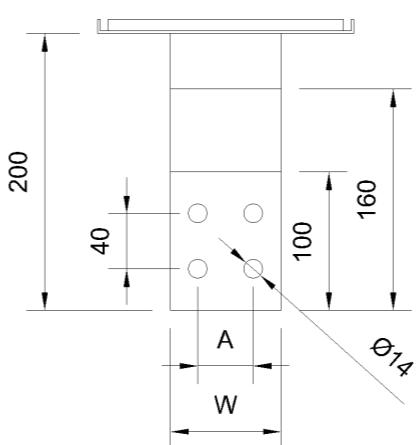
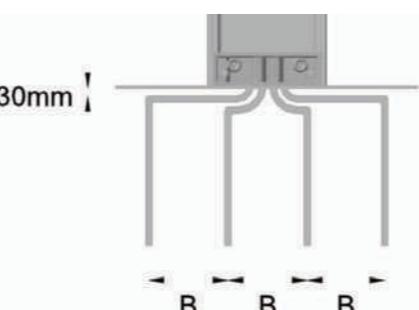
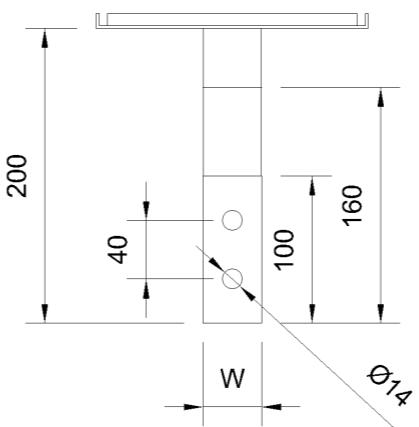
Amp. (AL)	W	Ø 14 mm A	B
400A	25	-	100
500A	30	-	
630A	40	-	
800A	55	-	
1000A	80	40X2	
1250A	110	40X3	
1350A	125	40X3	
1600A	160	40X4	
2000A	200	40X5	
2500A	(2) 110	40X6	
2500A	(2) 250	40X6	
3000A	(2) 140	40X8	
3200A	(2) 160	40X9	
4000A	(2) 200	40X11	
5000A	(3) 200	40X17	

Amp. (CU)	W	Ø 14 mm A	B
550A	25	-	100
650A	30	-	
800A	40	-	
1000A	55	-	
1250A	70	40X2	
1350A	80	40X2	
1600A	110	40X3	
2000A	140	40X3	
2250A	160	40X4	
2500A	200	40X5	
2000A	(2) 55	40X3	
2500A	(2) 80	40X5	
3300A	(2) 110	40X6	
3600A	(2) 125	40X7	
4000A	(2) 140	40X8	
4250A	(2) 160	40X9	
5000A	(2) 200	40X11	
6300A	(3) 200	40X17	

► Please contact us for custom-length modules.

The smartest way of power distribution

► Transformer Module Dimensions



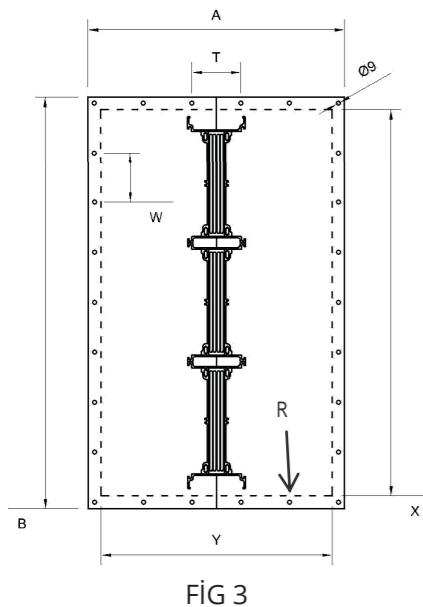
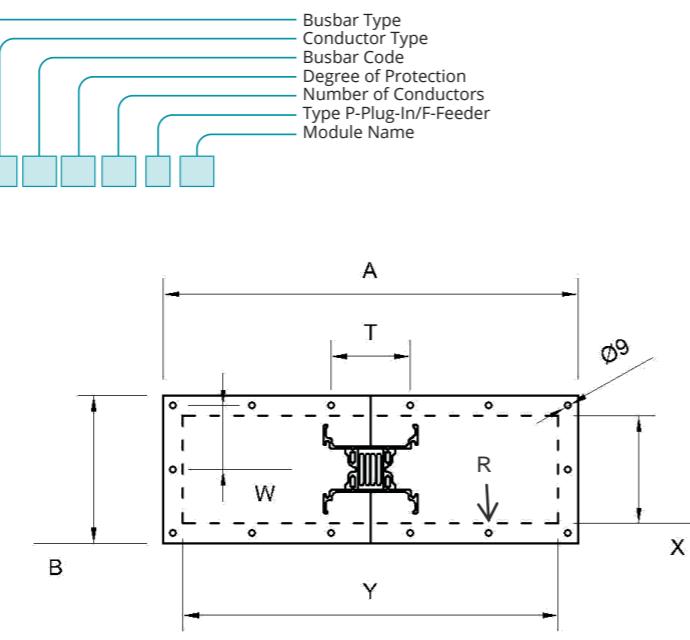
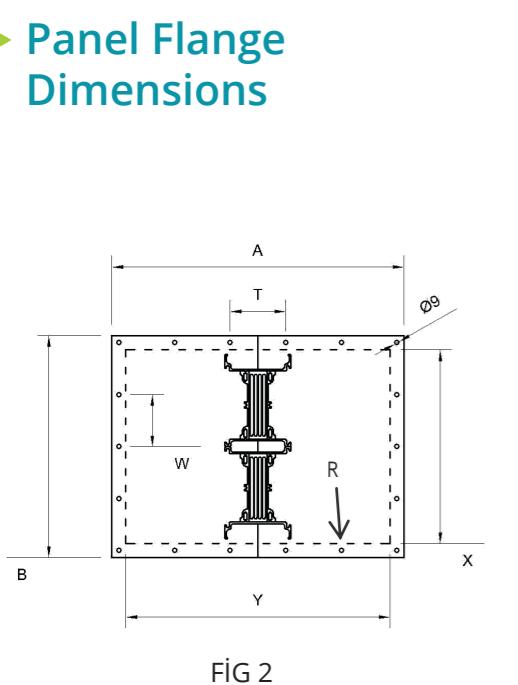
Amp. (AL)	W	Ø 14 mm A	B
400A	25	40X1	100
500A	30	40X1	
630A	40	40X1	
800A	55	40X1	
1000A	80	40X2	
1250A	110	40X3	
1350A	125	40X3	
1600A	160	40X4	
2000A	200	40X5	
2500A	(2) 110	40X6	
2500A	(2) 250	40X6	
3000A	(2) 140	40X6	
3200A	(2) 160	40X8	
4000A	(2) 200	40X10	
5000A	(3) 200	40X15	

Amp. (CU)	W	Ø 14 mm A	B
550A	25	40X1	100
650A	30	40X1	
800A	40	40X1	
1000A	55	40X1	
1250A	70	40X2	
1350A	80	40X2	
1600A	110	40X3	
2000A	140	40X3	
2250A	160	40X4	
2500A	200	40X5	
2000A	(2) 55	40X2	
2500A	(2) 80	40X4	
3300A	(2) 110	40X6	
3600A	(2) 125	40X6	
4000A	(2) 140	40X6	
4250A	(2) 160	40X8	
5000A	(2) 200	40X10	
6300A	(3) 200	40X15	

► Please contact us for custom-length modules.

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► Panel Flange Dimensions

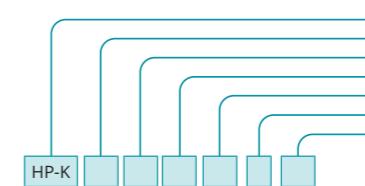


CONNECTION UNIT TOP FLANGE DIMENSIONS (AL)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
400A	520	185	460	125	97	6	75	3	1
500A	520	185	460	125	97	6	75	3	1
630A	520	185	460	125	97	6	75	3	1
800A	520	205	460	145	97	6	85	3	1
1000A	520	230	460	170	97	6	97.5	3	1
1250A	520	260	460	200	97	6	112.5	3	1
1350A	520	275	460	215	97	6	120	3	1
1600A	520	310	460	250	97	6	91.5	4	1
2000A	520	350	460	290	97	6	78.5	5	1
2500A	520	607	460	547	97	6	92.5	5	2
2500A	520	687	460	627	97	6	86	6	2
3000A	520	467	460	407	97	6	94	6	2
3200A	520	507	460	447	97	6	78	6	2
4000A	520	587	460	527	97	6	78.5	8	2
5000A	520	825	460	765	97	6	98.5	9	3

CONNECTION UNIT TOP FLANGE DIMENSIONS (CU)									
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
550A	520	185	460	125	97	6	75	3	1
650A	520	185	460	125	97	6	75	3	1
800A	520	185	460	125	97	6	75	3	1
1000A	520	205	460	145	97	6	85	3	1
1250A	520	220	460	160	97	6	90	3	1
1350A	520	230	460	170	97	6	97.5	3	1
1600A	520	260	460	200	97	6	112.5	3	1
2000A	520	290	460	230	97	6	83	4	1
2250A	520	310	460	250	97	6	91.5	4	1
2500A	520	350	460	290	97	6	78.5	5	1
2000A	520	297	460	237	97	6	86.5	4	2
2500A	520	347	460	287	97	6	77.5	5	2
3300A	520	407	460	347	97	6	92.5	5	2
3600A	520	437	460	377	97	6	80	6	2
4000A	520	467	460	407	97	6	86	6	2
4250A	520	507	460	447	97	6	94	6	2
5000A	520	587	460	527	97	6	78.5	8	2
6300A	520	825	460	765	97	6	98.5	9	3

► Please contact us for custom-length modules.

► Flexible Connection



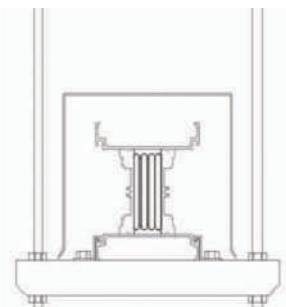
Flexible Connection Busbar | FB

SAMPLE ORDER

1250 A Aluminum
Flexible Busbar
IP 55 4 Conductor

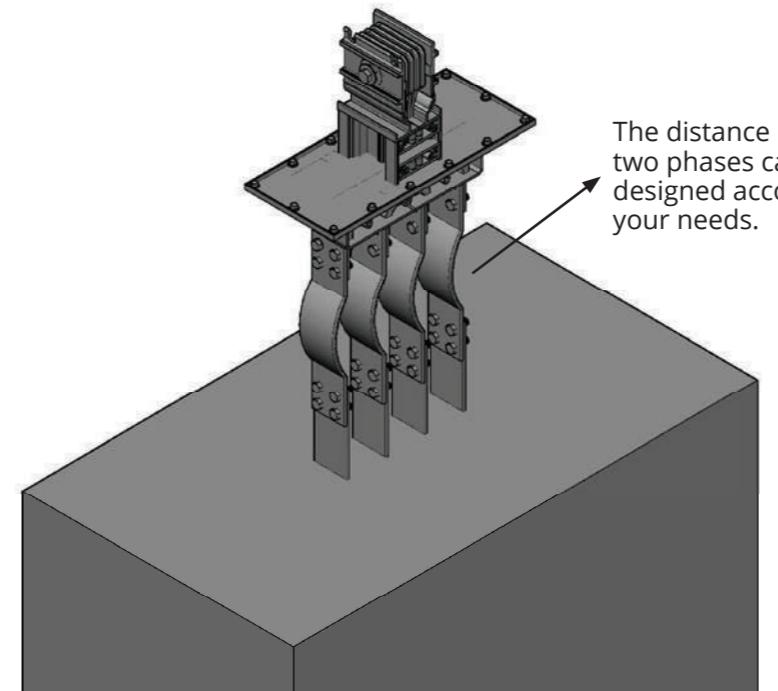
HP-KA125T2FB

FLEXIBLE BUSBAR CU	
AL	CU
AMR	W
400A	300-450
500A	300-450
630A	300-450
800A	300-450
1000A	300-450
1250A	300-450
1350A	300-450
1600A	300-450
2000A	300-450
2500A	300-450
3000A	300-450
3200A	300-450
4000A	300-450
5000A	300-450
	4250A
	5000A
	6300A



CANOPY

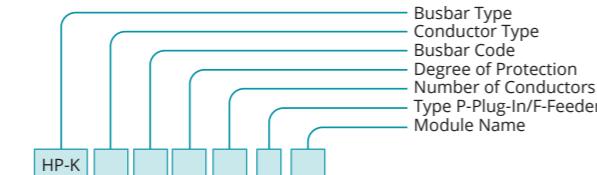
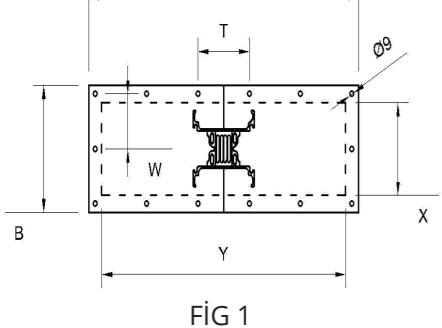
A canopy system must be used in any open space where IP55 is not adequate as the degree of protection. The application of a canopy system does not change the degree of protection of the busbar.



The distance between two phases can be designed according to your needs.

► Please contact us for custom-length modules.

► Panel Bellows Flange



Panel Bellows Flange PKF

SAMPLE ORDER

2500 A Aluminum
Panel Bellows
IP 55 4 Conductor

HPS635T2R5S

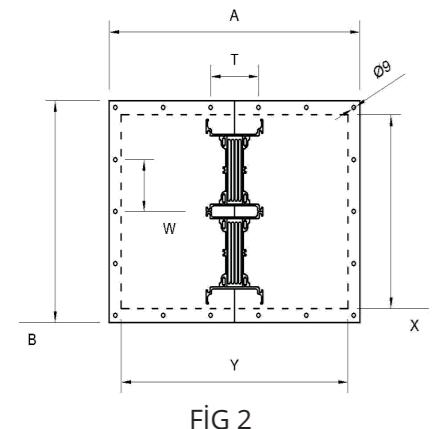
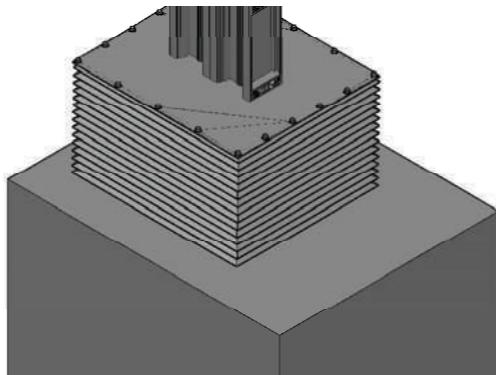


FIG 2

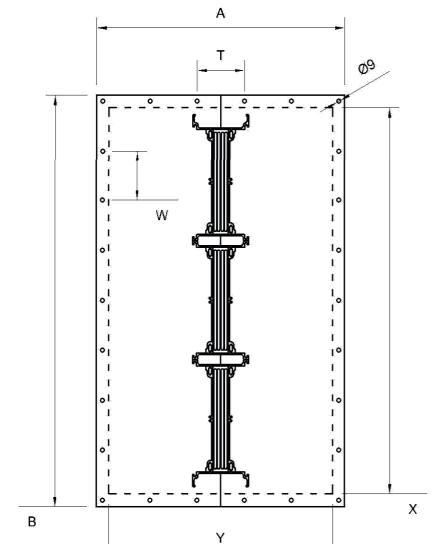


FIG 3

CONNECTION UNIT TOP FLANGE DIMENSIONS (AL)

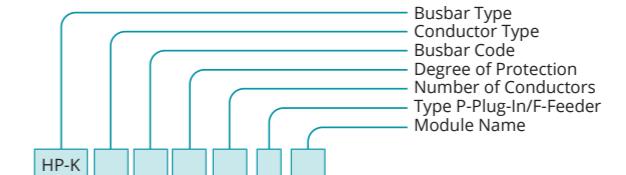
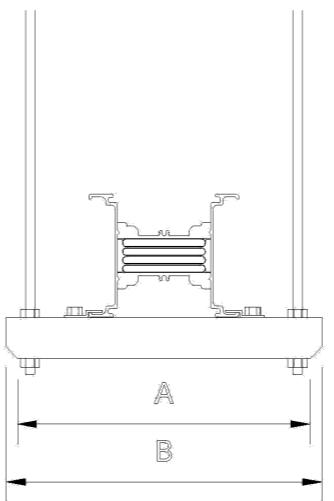
AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
400A	520	185	460	125	97	6	75	3	1
500A	520	185	460	125	97	6	75	3	1
630A	520	185	460	125	97	6	75	3	1
800A	520	205	460	145	97	6	85	3	1
1000A	520	230	460	170	97	6	97.5	3	1
1250A	520	260	460	200	97	6	112.5	3	1
1350A	520	275	460	215	97	6	120	3	1
1600A	520	310	460	250	97	6	91.5	4	1
2000A	520	350	460	290	97	6	78.5	5	1
2500A	520	607	460	547	97	6	92.5	5	2
2500A	520	687	460	627	97	6	86	6	2
3000A	520	467	460	407	97	6	94	6	2
3200A	520	507	460	447	97	6	78	6	2
4000A	520	587	460	527	97	6	78.5	8	2
5000A	520	825	460	765	97	6	98.5	9	3

CONNECTION UNIT TOP FLANGE DIMENSIONS (CU)

AMR.	A (mm)	B (mm)	Y (mm)	X (mm)	T (mm)	R	W (mm)	Ø9 MM R	FIG
550A	520	185	460	125	97	6	75	3	1
650A	520	185	460	125	97	6	75	3	1
800A	520	185	460	125	97	6	75	3	1
1000A	520	205	460	145	97	6	85	3	1
1250A	520	220	460	160	97	6	90	3	1
1350A	520	230	460	170	97	6	97.5	3	1
1600A	520	260	460	200	97	6	112.5	3	1
2000A	520	290	460	230	97	6	83	4	1
2250A	520	310	460	250	97	6	91.5	4	1
2500A	520	350	460	290	97	6	78.5	5	1
2000A	520	297	460	237	97	6	86.5	4	2
2500A	520	347	460	287	97	6	77.5	5	2
3300A	520	407	460	347	97	6	92.5	5	2
3600A	520	437	460	377	97	6	80	6	2
4000A	520	467	460	407	97	6	86	6	2
4250A	520	507	460	447	97	6	94	6	2
5000A	520	587	460	527	97	6	78.5	8	2
6300A	520	825	460	765	97	6	98.5	9	3

► Please contact us for custom-length modules.

► Horizontal Hanger Kit (U)

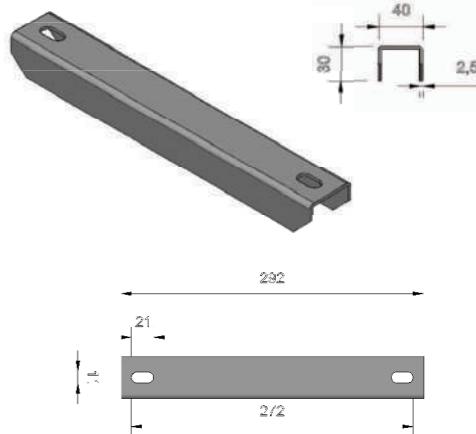


Custom Horizontal Hanger Kit Horizontal Application YUP

SAMPLE ORDER

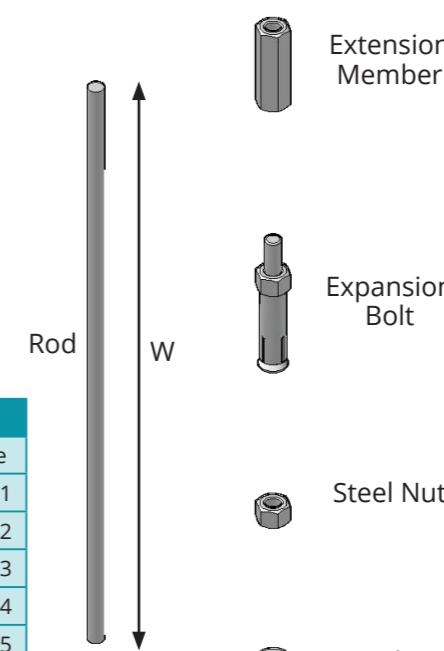
5000 A Aluminum
Horizontal Hanger
IP 55 4 Conductor

HP-KA505T2YUP



CUSTOM HORIZONTAL HANGER KIT HORIZONTAL APPLICATION

(AL)	(CU)	(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	267	307	1000A	267	307
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	669	709	2500A	412	452
2500A	749	789	2000A	359	399
3000A	529	569	2500A	409	449
3200A	569	609	3300A	469	509
4000A	649	689	3600A	499	539
5000A	887	927	4000A	529	569
			4250A	569	609
			5000A	649	689
			6300A	887	927



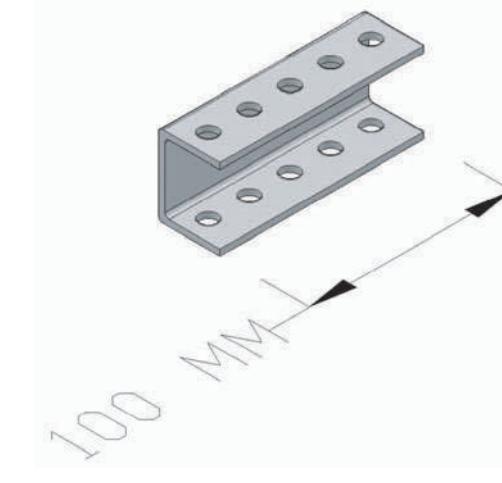
Drill Bit Diameter:

M10.....Ø14

M12.....Ø16

► Please contact us for custom-length modules.

► Custom
Horizontal
Hanger (U)

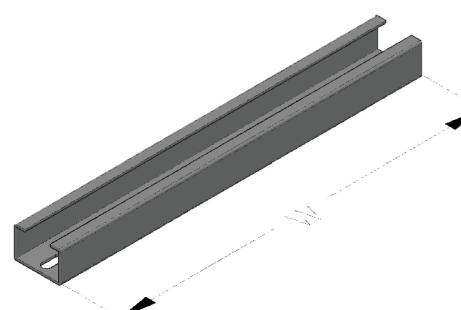


Horizontal Ceiling Kit	YTK
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SAMPLE ORDER

1000 A Aluminum
Horizontal Ceiling Kit
IP 55 4 Conductor

HP-KA105T2YTK

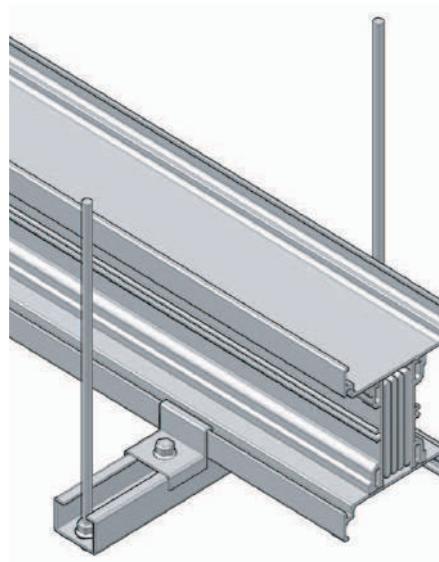


Horizontal Hanger Kit Custom	YVA
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SAMPLE ORDER

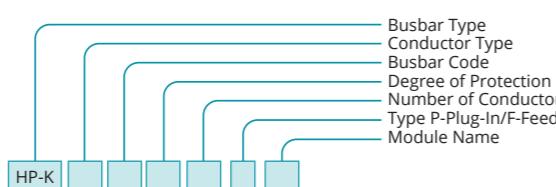
1000 A Aluminum
Horizontal Hanger
IP 55 4 Conductor

HP-KA105T2YVA



► Fixed Shaft
Hanger Kit

► Please contact us for custom-length modules.

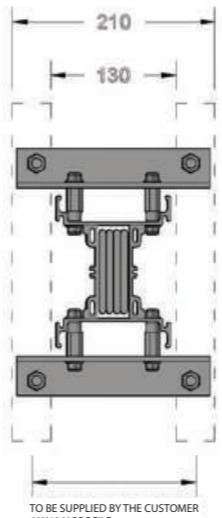


HORIZONTAL CEILING CONNECTION KIT (U PROFILE)

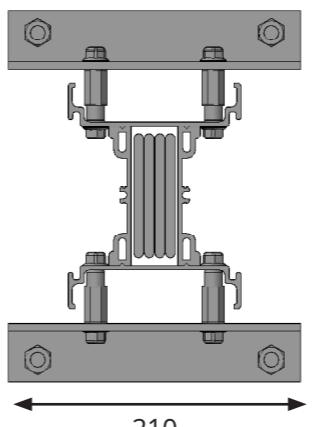
AL		CU	
AMR	A	AMR	A
400A	100	550A	100
500A	100	650A	100
630A	100	800A	100
800A	100	1000A	100
1000A	100	1250A	100
1250A	100	1350A	100
1350A	100	1600A	100
1600A	100	2000A	100
2000A	100	2250A	100
2500A	100	2500A	100
2500A	100	2000A	100
3000A	100	2500A	100
3200A	100	3300A	100
4000A	100	3600A	100
5000A	100	4000A	100
		4250A	100
		5000A	100
		6300A	100

HORIZONTAL HANGER KIT VERTICAL CUSTOM (U PROFILE)

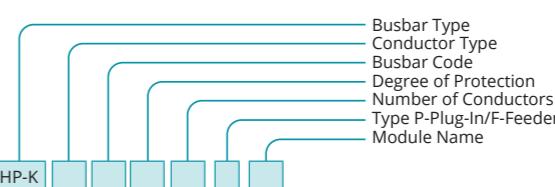
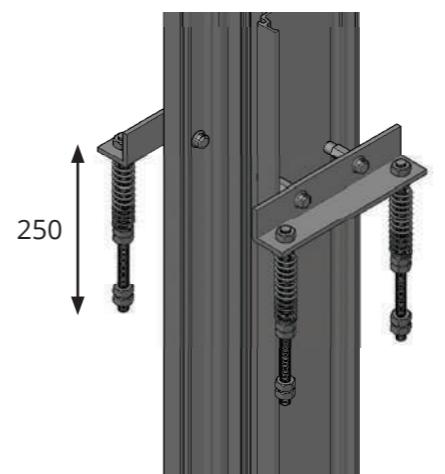
AL		CU	
AMR	A	AMR	A
400A	355	550A	355
500A	355	650A	355
630A	355	800A	355
800A	355	1000A	355
1000A	355	1250A	355
1250A	355	1350A	355
1350A	355	1600A	355
1600A	355	2000A	355
2000A	355	2250A	355
2500A	355	2500A	355
2500A	355	2000A	355
3000A	355	2500A	355
3200A	355	3300A	355
4000A	355	3600A	355
5000A	355	4000A	355
		4250A	355
		5000A	355
		6300A	355



TOP VIEW



SIDE VIEW

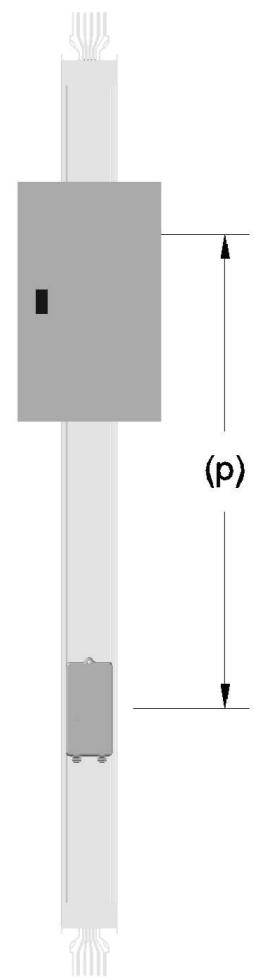


Shaft Hanger Kit	HPS
------------------	-----

SAMPLE ORDER

1250 A Aluminum
Shaft Hanger
IP 55 4 Conductor

HP-KA125T2HPS



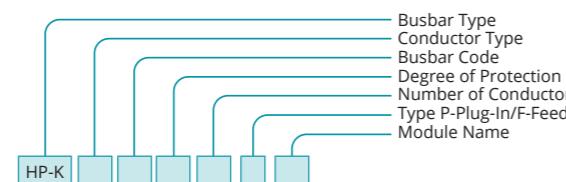
SHAFT HANGER KIT

AMR	AMR
HPS04	HPS05
HPS05	HPS06
HPS06	HPS07
HPS08	HPS09
HPS10	HPS13
HPS12	HPS15
HPS14	HPS17
HPS16	HPS21
HPS20	HPS23
HPS25	HPS24
HPS26	HPS22
HPS30	HPS27
HPS32	HPS33
HPS40	HPS36
HPS50	HPS41
	HPS42
	HPS51
	HPS63

TAP-OFF UNIT	MINIMUM HOLE PITCH
AMR	P (mm)
50A-200A	650
400A	900
600A	1000
800A	1000
1000A	1300
1200A	1300

► Please contact us for custom-length modules.

► Wall Hanger Kit

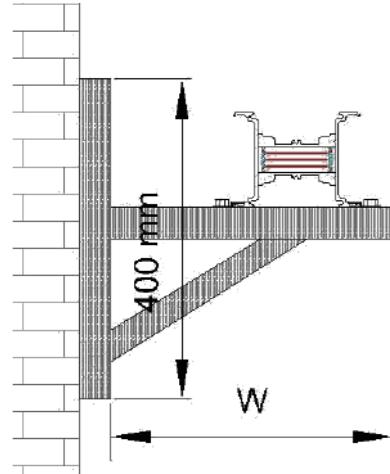


Wall Hanger Kit	Horizontal Application
DYA	

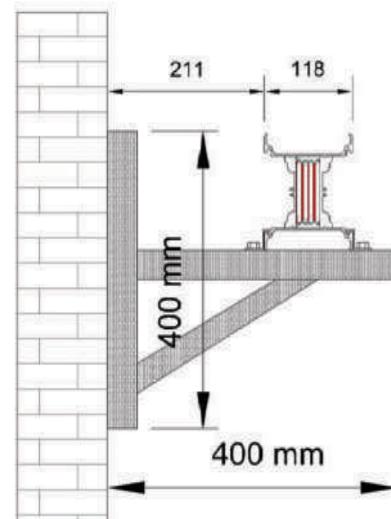
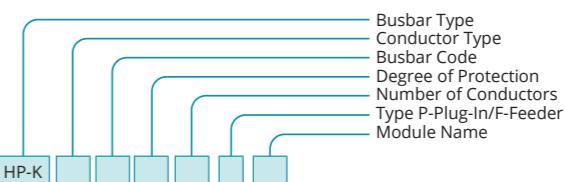
SAMPLE ORDER

1600 A Aluminum
Wall Hanger
IP 55 4 Conductor

HP-KA165T2DYA



Wall Hanger Standard (VERTICAL)

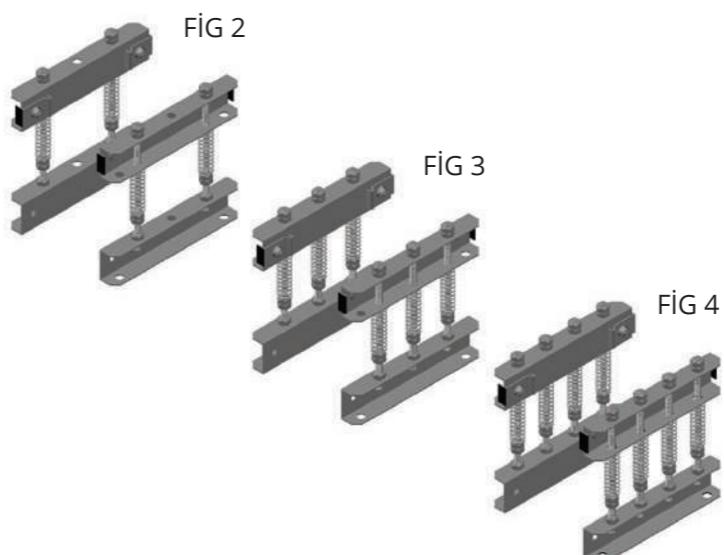
► Spring Shaft
Hanger Kit

Spring Shaft Hanger Kit	
SA	

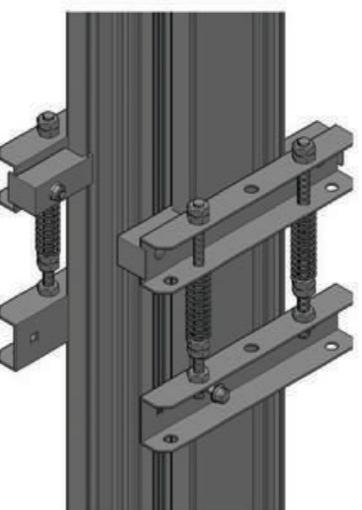
SAMPLE ORDER

1000 A Aluminum
Spring Hanger
IP 55 4 Conductor

HP-KA105T2SA



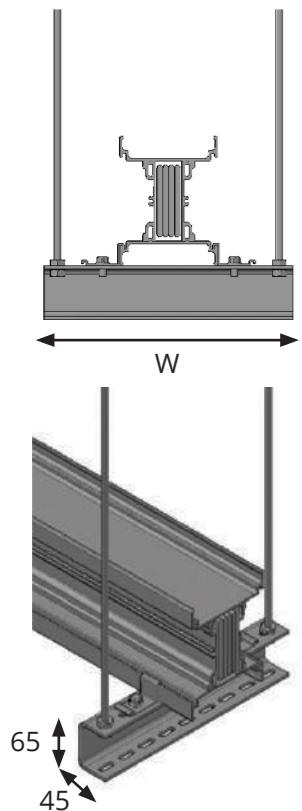
SPRING SHAFT HANGER CONNECTION FIGURES	
AL	CU
400A	FIG2
500A	FIG2
630A	FIG2
800A	FIG2
1000A	FIG2
1250A	FIG2
1350A	FIG2
1600A	FIG2
2000A	FIG3
2500A	FIG3
3000A	FIG3
3200A	FIG3
4000A	FIG4
5000A	FIG4
6300A	FIG4



► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Horizontal Hanger Kit



Horizontal Hanger Kit Vertical Application	YUD
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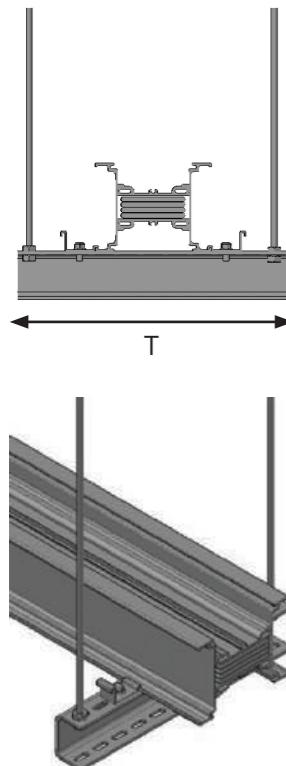
SAMPLE ORDER

800 A Aluminum
Horizontal Hanger
IP 55 4 Conductor

HP-KA085T2YUD

HORIZONTAL HANGER KIT 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
		4250A	300
		5000A	300
		6300A	300



Horizontal Hanger Kit Horizontal Application	YUY
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SAMPLE ORDER

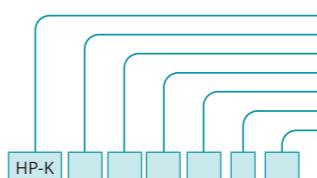
1000 A Aluminum
Horizontal Hanger
IP 55 4 Conductor

HP-KA105T2YUY

HORIZONTAL HANGER KIT HORIZONTAL APPLICATION

AL		CU	
AMR	T	AMR	T
400A	310	550A	310
500A	310	650A	310
630A	310	800A	310
800A	310	1000A	310
1000A	310	1250A	310
1250A	360	1350A	310
1350A	360	1600A	360
1600A	410	2000A	410
2000A	460	2250A	410
2500A	460	2500A	460
2500A	510	2000A	410
3000A	560	2500A	460
3200A	610	3300A	510
4000A	710	3600A	560
5000A	910	4000A	560
		4250A	610
		5000A	710
		6300A	910

► Horizontal Hanger Kit (L)



Horizontal Hanger Kit Vertical Application	YLD
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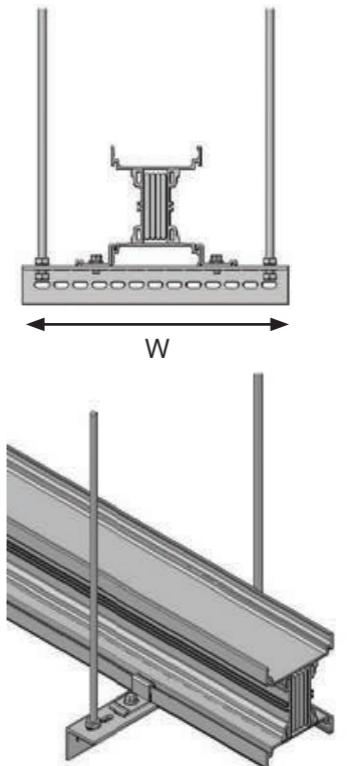
SAMPLE ORDER

1350 A Aluminum
Horizontal Bracket Hanger
IP 55 4 Conductor

HP-KA135T2YLD

HORIZONTAL HANGER KIT 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
		4250A	300
		5000A	300
		6300A	300



Horizontal Hanger Kit Horizontal Application	YLY
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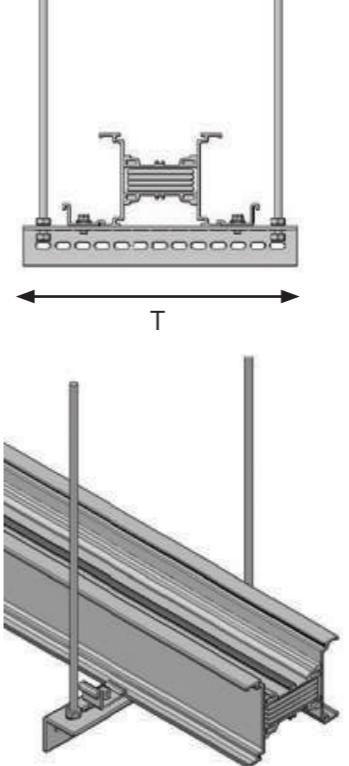
SAMPLE ORDER

1600 A Aluminum
Horizontal Bracket Hanger
IP 55 4 Conductor

HP-KA165T2YLY

HORIZONTAL HANGER KIT HORIZONTAL APPLICATION

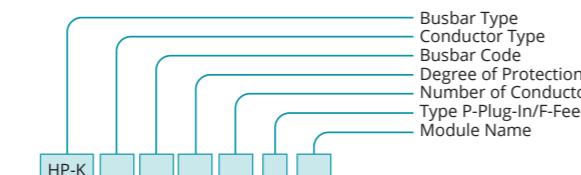
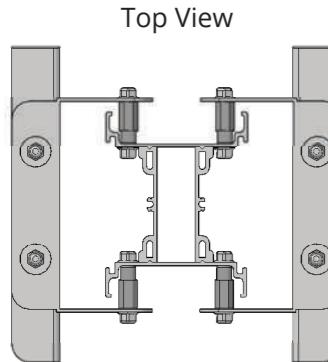
AL		CU	
AMR	T	AMR	T
400A	310	550A	310
500A	310	650A	310
630A	310	800A	310
800A	310	1000A	310
1000A	310	1250A	310
1250A	360	1350A	310
1350A	360	1600A	360
1600A	410	2000A	410
2000A	460	2250A	410
2500A	460	2500A	460
2500A	510	2000A	410
3000A	560	2500A	460
3200A	610	3300A	510
4000A	710	3600A	560
5000A	910	4000A	560
		4250A	610
		5000A	710
		6300A	910



► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

► Shaft Wall Hanger Kit

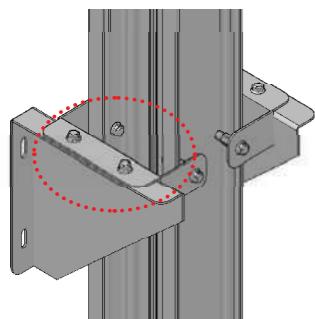


Shaft Wall Hanger Kit SD

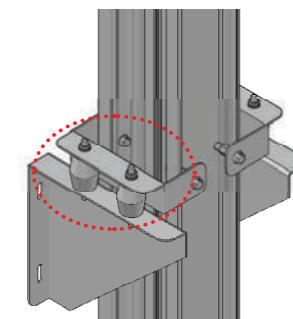
SAMPLE ORDER

800 A Aluminum
Horizontal Hanger
IP 55 4 Conductor

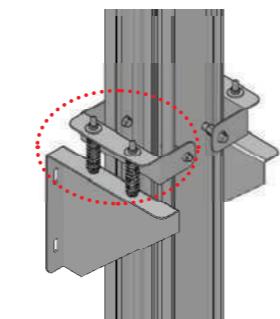
HP-KA085T2SD3



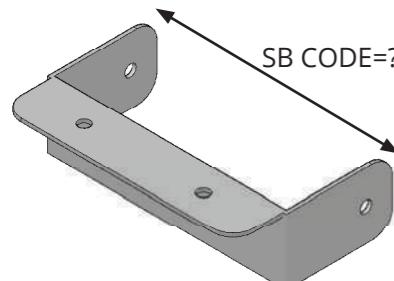
(1)
Fixed



(2)
Rubber



(3)
Spring



Shaft Busbar Fittings SB

SAMPLE ORDER

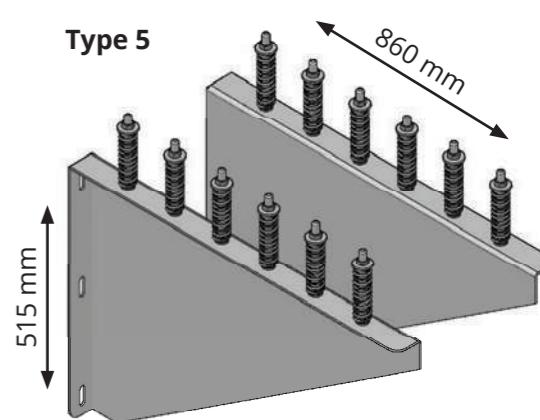
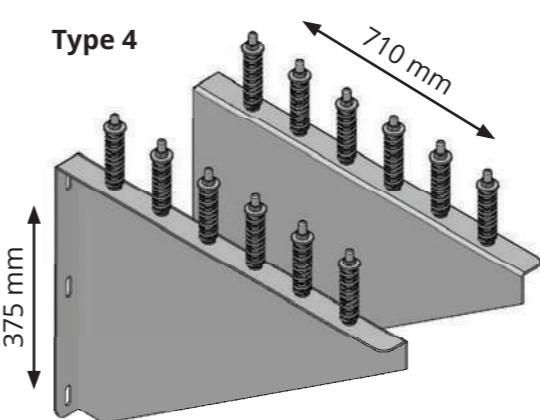
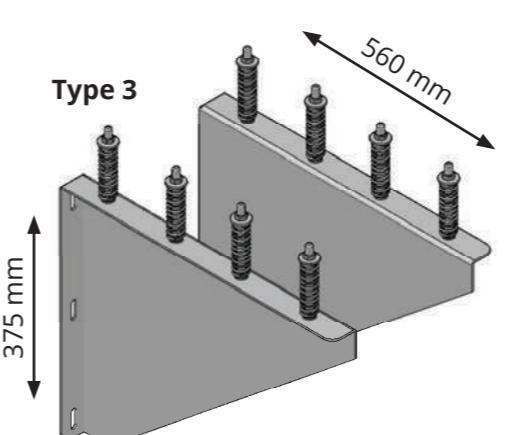
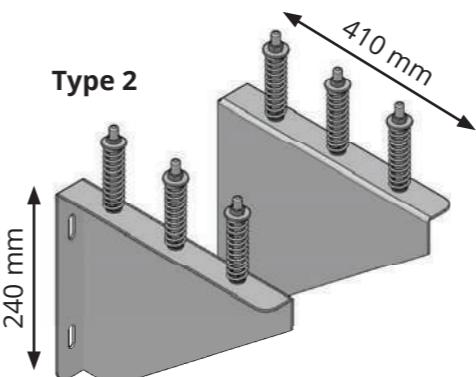
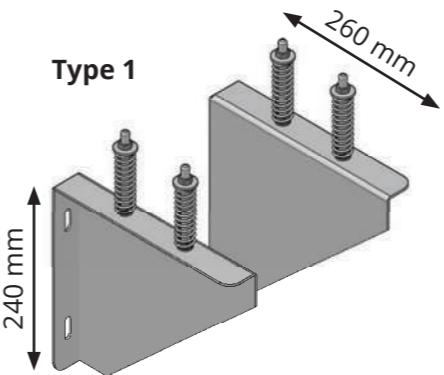
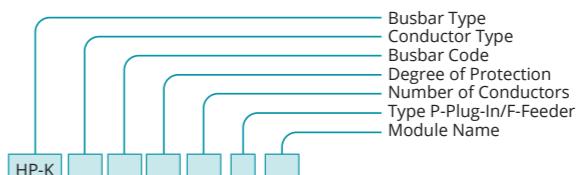
1000 A Aluminum
Shaft Fittings
IP 55 4 Conductor

HP-KA105T2SB5

SHAFT FITTINGS (CUSTOM)

AL		CU	
AMR	KOD	AMR	KOD
400A	SB1	550A	SB1
500A	SB1	650A	SB1
630A	SB1	800A	SB1
800A	SB2	1000A	SB2
1000A	SB3	1250A	SB14
1250A	SB4	1350A	SB3
1350A	SB5	1600A	SB4
1600A	SB6	2000A	SB15
2000A	SB7	2250A	SB6
2500A	SB8	2500A	SB7
2500A	SB9	2000A	SB16
3000A	SB10	2500A	SB17
3200A	SB11	3300A	SB8
4000A	SB12	3600A	SB18
5000A	SB13	4000A	SB10
		4250A	SB11
		5000A	SB12
		6300A	SB13

► Shaft Wall Hanger Kit



SHAFT WALL HANGER KIT TABLE	
AL	CU
AMR	TPYE
400A	TYPE1
500A	TYPE1
630A	TYPE1
800A	TYPE1
1000A	TYPE1
1250A	TYPE2
1350A	TYPE2
1600A	TYPE2
2000A	TYPE2
2500A	TYPE2
2500A	TYPE4
3000A	TYPE3
3200A	TYPE3
4000A	TYPE4
5000A	TYPE5
	4250A
	5000A
	6300A

► Please contact us for custom-length modules.

► Please contact us for custom-length modules.

TECHNICAL TABLE (HP-K AL)**ALUMINUM CONDUCTOR (AL)**

Rated Current	In	A	400	500	630	800		1000	1250	1350	1600	2000	2500	2500	3000	3200	4000	5000	
BUSBAR CODE			HP-KA04	HP-KA05	HP-KA06	HP-KA08		HP-KA10	HP-KA12	HP-KA13	HP-KA16	HP-KA20	HP-KA25	HP-KA252	HP-KA30	HP-KA32	HP-KA40	HP-KA50	
Degree of Protection	IP55																		
Standards	IEC 61439-6 TS EN 61439-6 IEC 61439-1 TS EN 61439-1																		
Max. Rated Operational Voltage	Ue	Vac	1000																
Rated Impact Resistance Voltage	Uimp	kV	4																
Rated Frequency	f	Hz	50																
Rated Insulation Voltage	Ui	V	1000	Category IV															
Mechanical Impact Resistance (IK Code)	Plug-in Busbar IK07																		
Measures for the Protection of Humans	Basic Protection (HD 60364-4-41, Article A1)																		
Rated Short-Time Current (1s)	Icw	kA	15	18	25	35		50	50	50	50	100	100	100	100	100	120	120	
Rated Peak Withstand Current	Ipk	kA	32,2	32,3	52,6	73,6		105,5	131,5	131,5	175	175	222	175	222	263	263		
Rated Short-Time Current for Neutral Conductor (1s)	Icw	kA	9,8	9,8	14	20		30,2	37	37	47,6	47,6	61	47,6	61	73	73	73	
Rated Peak Withstand Current for Neutral Conductor	Ipk	kA	17	17	30,5	44		64	75,5	75,5	101	101	132,2	101	132,2	159	159	159	
Rated Short-Time Current for Protective Circuit (1s)	Icw	kA	9,8	9,8	14	20		30,2	37	37	47,6	47,6	61	47,6	61	73	73	73	
Rated Peak Withstand Current for Protective Circuit	Ipk	kA	17	17	30,5	44		64	75,5	75,5	101	101	132,2	101	132,2	159	159	159	

TECHNICAL TABLE (HP-K CU)**COPPER CONDUCTOR (CU)**

Rated Current	In	A	550	650	800	1000	1250	1350		1600	2000	2250	2500	2000	2500	3300	3600	4000	4250	5000	6300	
BUSBAR CODE			HP-KC05	HP-KC06	HP-KC08	HP-KC10	HP-KC10	HP-KC13		HP-KC16	HP-KC20	HP-KC22	HP-KC25	HP-KC202	HP-KC252	HP-KC33	HP-KC36	HP-KC40	HP-KC42	HP-KC50	HP-KC63	
Degree of Protection	IP55																					
Standards	IEC 61439-6 TS EN 61439-6 IEC 61439-1 TS EN 61439-1																					
Max. Rated Operational Voltage	Ue	Vac	1000																			
Rated Impact Resistance Voltage	Uimp	kV	4																			
Rated Frequency	f	Hz	50																			
Rated Insulation Voltage	Ui	V	1000	Category IV																		
Mechanical Impact Resistance (IK Code)	Plug-in Busbar IK07																					
Measures for the Protection of Humans	Basic Protection (HD 60364-4-41, Article A1)																					
Rated Short-Time Current (1s)	Icw	kA	26	26	40	50	50	50		50	100	100	80	70	100	100	100	120	120	120	120	
Rated Peak Withstand Current	Ipk	kA	52	52	85	104	132,5	175,5		175,5	175,5	175,5	175,5	155	222	263	263	263	263	263	263	
Rated Short-Time Current for Neutral Conductor (1s)	Icw	kA	15,8	15,8	25	32	34	36		50	50	50	50	44	58	70	70	70	70	70	70	
Rated Peak Withstand Current for Neutral Conductor	Ipk	kA	30	30	50,5	63,2	75,5	75,5		101	101	101	101	88	132,2	158,5	158,5	158,5	158,5	158,5	158,5	
Rated Short-Time Current for Protective Circuit (1s)	Icw	kA	15,8	15,8	25	32	34	36		50	50	50	50	44	58	70	70	70	70	70	70	
Rated Peak Withstand Current for Protective Circuit	Ipk	kA	30	30	50,5	63,2	75,5	75,5		101	101	101	101	88	132,2	158,5	158,5	158,5	158,5	158,5	158,5	

1. Operating current (OC) is calculated based on the following formula. $I_b = \frac{PxF}{\sqrt{3} \times U_e \times \cos \varphi}$		
Parameters to consider		
P: Total power of feeding load F: Feeding load coefficient		
2. Feeding load coefficient varies by the place of use. It may need to be calculated for each use. Some places of use and coefficients are given in the table below.		
Place of Use: Industrial Industrial Industrial Service Service	Number of Users: 1 to 10 10 to 20 20 to 40 Large Offices Shopping Malls	Coefficient: 0.8-0.9 0.7-0.8 0.6-0.7 0.7-0.8 0.8-0.9
3. Ue: Operating Voltage (V)		
Example: Place of Use: Industrial		
Number of Users: 18		
Uniform power unit: 150kw		
Max. Operating voltage 400V		
$\cos \varphi = 0.95$		
$I_b = \frac{PxF}{\sqrt{3} \times U_e \times \cos \varphi}$		
Total power $12 \times 12 = 144\text{kw}$ 2700000 (W) P		
Coefficient: 0.8		
$I_b = \frac{2700000 \times 0.8}{1.73 \times 400 \times 0.95} = 3285 \text{ A}$		
As a manufacturing company, you need to take future power increases into consideration. Accordingly, you can make your busbar safer by a margin of 20%.		
$3285 \text{ A} \times 1.20 = 3942 \text{ A}$		
Current options 4000A AL 4000A CU		
4. The temperature of the place of use must be checked. Busbar conductors are designed for a daily average temperature of 40°C. It may be necessary to upgrade the busbar depending on temperature rise.		
K : Reduction coefficient depending on ambient temperature		
Example: (Daily) average temperature: 50°C and		
Busbar conductor is 4000A. For a temperature of 50°C:		
$4000 \text{ A} \times 0.84 = 3360 \text{ A}$		

6. If the ambient temperature is 50°C, the conductors should not carry more than 3360A. If a higher current is required, the busbar must be upgraded.
7. Depending on voltage drop, calculations are made based on the estimated reference value, and the busbar is selected accordingly. In three-phase systems, voltage drop is calculated based on the following formula, and the following parameters are taken into account.
$\Delta V\% = D \times t \times I_b \times L / U_e \times 100$
Accordingly,
D: Load distribution factor It is a coefficient that varies by the direction and point of supply. This multiplier allows for quick calculation.
D=1 Single sided feed and end point output. D=0.5 Single sided feed and equal output. t : Unit voltage drop value
In the table below (Page 49), values are given in (μV) ampere /mt in respect to $\cos \varphi$ values.
I_b : Total of all extra effective loads
L: Total length of the busbar line
U_e : Supply voltage
Example: For the 4000A busbar, calculations are as follows. (In equal load distribution)
(L) Line length 80 mt
(I_b) Effective load 3285A
U_e : Supply voltage 400V
$\cos \varphi$ 0,95
(D) Load distribution factor 0,5
(T) Unit voltage drop value $34,17 (\text{V}) \%^6$
(ΔV) Maximum permissible voltage drop 4%
$\Delta V\% = D \times t \times I_b \times L / U_e \times 100$
$\Delta V\% = \frac{0,5 \times 34,17 \times 3285 \times 80 \times 100}{400 \times 10^{-6}} = 1,1 \%$
The value found is lower than 4%.

Unit Voltage Drop Values

ALUMINUM	400A	500A	630A	800A	1000A	1250A	1350A	1600A	2000A	2500A	2500A	3000A	3200A	4000A	5000A	Birim: mV/mT		
$\cos \varphi = 0,70$	136,99	136,99	136,99	128,86	115,51	81,48	89,93	59	58,37	40,13	40,13	32,84	32,84	29,5	32,87			
$\cos \varphi = 0,75$	143,01	143,01	143,01	134,47	120,35	84,79	94,02	61,24	60,75	41,75	41,75	34,11	34,11	30,68	33,96			
$\cos \varphi = 0,80$	148,71	148,71	148,71	139,78	124,91	87,88	97,92	63,32	62,97	43,25	43,25	35,29	35,29	31,78	34,95			
$\cos \varphi = 0,85$	153,98	153,98	153,98	144,69	129,07	90,7	96,25	65,12	64,99	44,61	44,61	36,35	36,35	32,78	35,79			
$\cos \varphi = 0,90$	158,61	158,61	158,61	148,98	132,66	93,08	91,55	66,68	66,71	45,76	45,76	37,22	37,22	33,62	36,42			
$\cos \varphi = 0,95$	162,05	162,05	162,05	152,14	135,17	94,67	93,45	67,57	67,85	46,51	46,51	37,75	37,75	34,17	36,65			
$\cos \varphi = 1$	158,64	158,64	158,64	148,78	131,48	91,69	89,24	64,88	65,74	44,98	44,98	36,33	36,33	33,04	34,6			
COPPER	550A	650A	800A	1000A	1250A	1350A	1600A	2000A	2250A	2500A	2000A	2500A	3300A	3600A	4000A	4250A	5000A	6300A
$\cos \varphi = 0,70$	121,59	121,59	121,59	87,66	76,56	76,56	56,12	50,84	50,84	38,63	36,65	38,63	28,87	28,87	23,16	23,16	20,73	20,73
$\cos \varphi = 0,75$	126,69	126,69	126,69	90,51	78,27	78,27	57,08	51,96	51,96	39,6	36,93	39,6	29,68	29,68	23,73	23,73	21,14	21,14
$\cos \varphi = 0,80$	131,48	131,48	131,48	93,07	79,65	79,65	57,78	52,87	52,87	40,41	37,02	40,41	30,38	30,38	24,22	24,22	21,45	21,45
$\cos \varphi = 0,85$	135,87	135,87	135,87	95,25	80,6	80,6	58,14	53,49	53,49	41,02	36,85	41,02	30,94	30,94	24,58	24,58	21,64	21,64
$\cos \varphi = 0,90$	139,64	139,64	139,64	96,85	80,92	80,92	57,97	53,69	53,69	41,33	36,27	41,33	31,28	31,28	24,77	24,77	21,65	21,65
$\cos \varphi = 0,95$	142,28	142,28	142,28	97,37	80,04	80,04	56,84	53,09	53,09	41,07	34,96	41,07	31,23	31,23	24,61	24,61	21,65	21,65
$\cos \varphi = 1$	138,4	138,4	138,4	91,69	72,31	72,31	50,17	47,92	47,92	37,54	29,41	37,54	28,89	28,89	22,49	22,49	19,03	19,03

HP-K TECHNICAL SPECIFICATIONS

- Complies with the standards IEC 61439-6 and TSE 61439-6,
- Accredited and ready for type tests for all stages.
- CE marked.
- ISO 9001 and ISO 14001 certified.
- Production year: 2001.
- Electrical values - insulation voltage: 1000V; ambient temperature: max. 400; max. temperature rise: 95 K.
- Housing is made of 2.7 mm extruded aluminum profile.
- Powder coated (RAL 7038).
- Conductors: Class B Mylar film coating between double layer epoxy coating.
- Conductors: EC-Grade. Conductivity: 34 m/mm² ohm for Aluminum and 56 m/mm² ohm for Copper.
- Degree of Protection: IP 55/ IP 65,
- Bolt-On Tap-Off Unit: 1000A,
- Conductor ends are tin plated.

ELECTRICAL CHARACTERISTIC VALUES

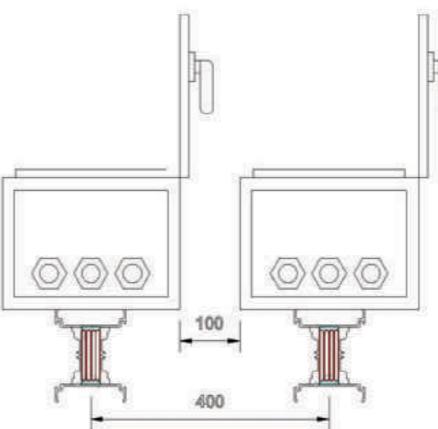
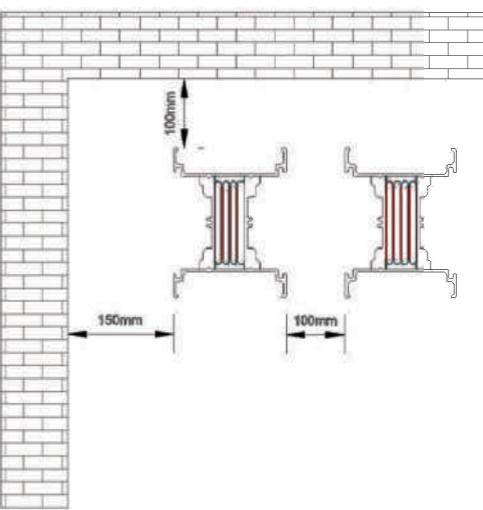
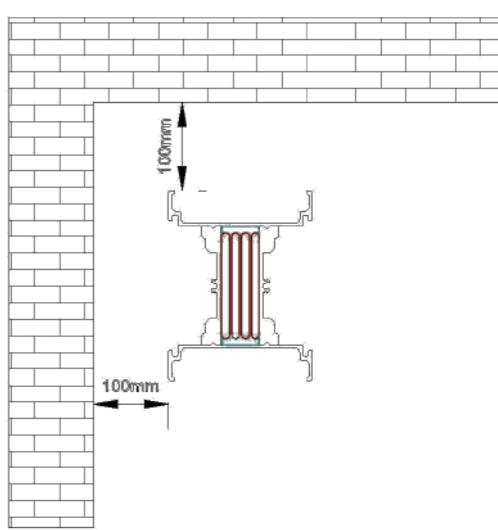
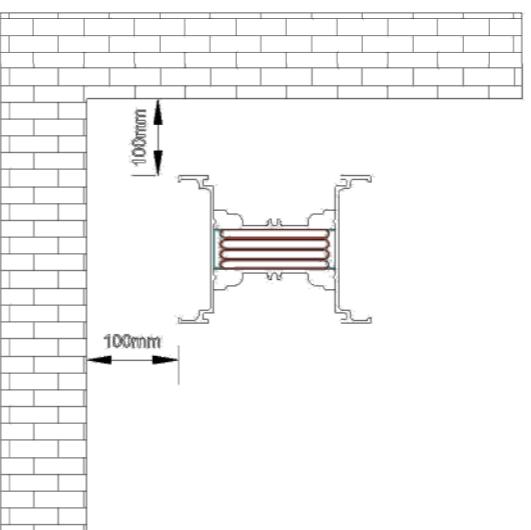
For frequency 60Hz. the following values are multiplied by 0.83.

ALUMINUM

Nominal	Impedance x 10-3 Ω/m between phase and 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

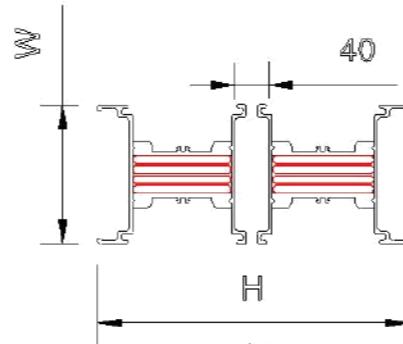
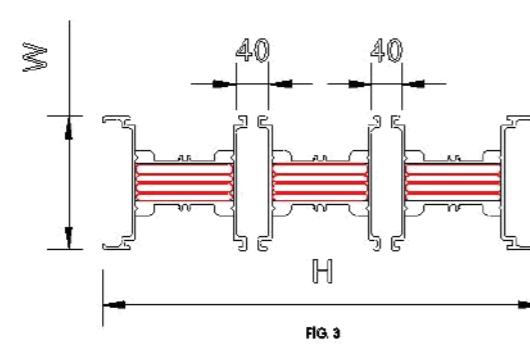
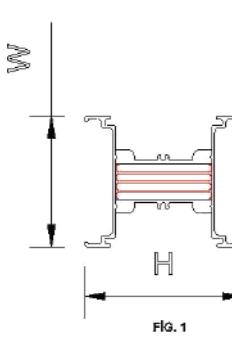
COPPER

Nominal	Impedance x 10-5 Ω/m between phase and 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

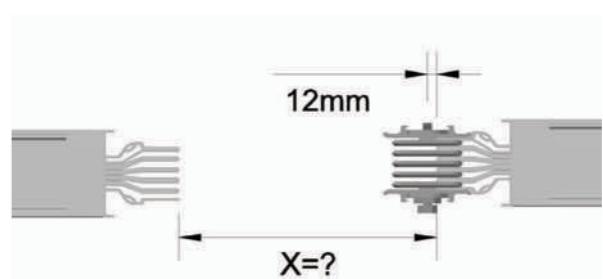
DISTANCE BETWEEN TWO BUSBARS**PLACEMENT OF THE BUSBAR INSIDE THE SHAFT**

Current	BUSBAR MM		EACH PHASE			FEEDER KG		
	W	H	MM		FIG.	3p3w+pe	3p4w+pe	
400A	118	102.5	X	1	25	1	5.2	6.2
500A	118	102.5			30	1	6.6	7.5
630A	118	102.5			40	1	7.8	8.5
800A	118	117.5			55	1	9.1	10.1
1000A	118	142.5			80	1	11.2	12.7
1250A	118	172.5			110	1	13.8	15.8
1350A	118	187.5			125	1	15.1	17.4
1600A	118	222.5			160	1	18.2	21
2000A	118	262.5			200	1	21.6	25.2
2500A	118	312.5			250	1	28.4	34.1
2500A	118	329		2	110	2	27.2	31.1
3000A	118	389			140	2	32.4	37.4
3200A	118	429			160	2	35.8	41.5
4000A	118	509			200	2	42.8	49.9
5000A	118	757.5			200	3	63.8	74.5

Current	BUSBAR MM		EACH PHASE			FEEDER KG		
	W	H	MM		FIG.	3p3w+pe	3p4w+pe	
550A	118	102.5	X	1	25	1	11.8	12.6
650A	118	102.5			30	1	13.5	15.3
800A	118	102.5			40	1	14.3	16.7
1000A	118	117.5			55	1	18.2	21.4
1250A	118	132.5			70	1	21.9	26
1350A	118	142.5			80	1	24.4	29.1
1600A	118	172.5			95	1	32	38.4
2000A	118	202.5			125	1	39.5	47.8
2250A	118	222.5			160	1	44.5	54
2500A	118	262.5			200	1	54.6	66.4
2000A	118	219		2	55	2	35.8	42.3
2500A	118	269			80	2	48.4	57.8
3300A	118	329			110	2	63.4	76.4
3600A	118	359			125	2	71	85.7
4000A	118	389			140	2	78.5	95.1
4250A	118	429			160	2	88.5	107.4
5000A	118	509			200	2	108.7	132.3
6300A	118	757.5			200	3	167.7	198.1



OPTIONAL LENGTH



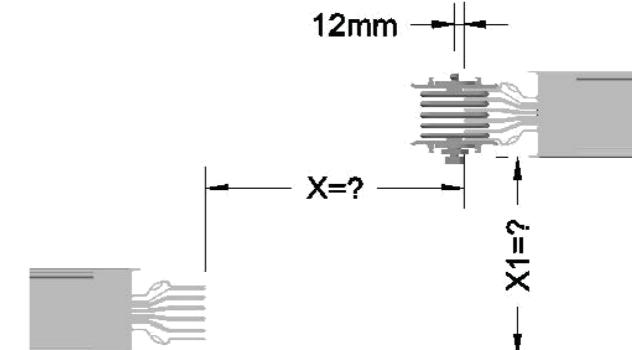
MEASUREMENTS FOR JOINING TWO BUSBARS

X: Measured Length
(FROM ONE CONNECTOR END TO THE OTHER CONNECTOR END)

Example
X=1000 mm and Joint Block Spacing= 24 mm
1000-24=976 mm
Order Dimensions: 930mm

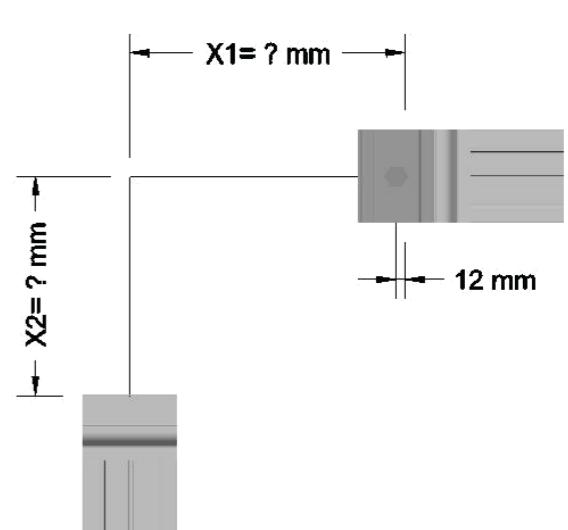
DOUBLE VERTICAL ELBOW MEASUREMENT

X-X1 must be measured.
Joint Block =24mm
must be subtracted.

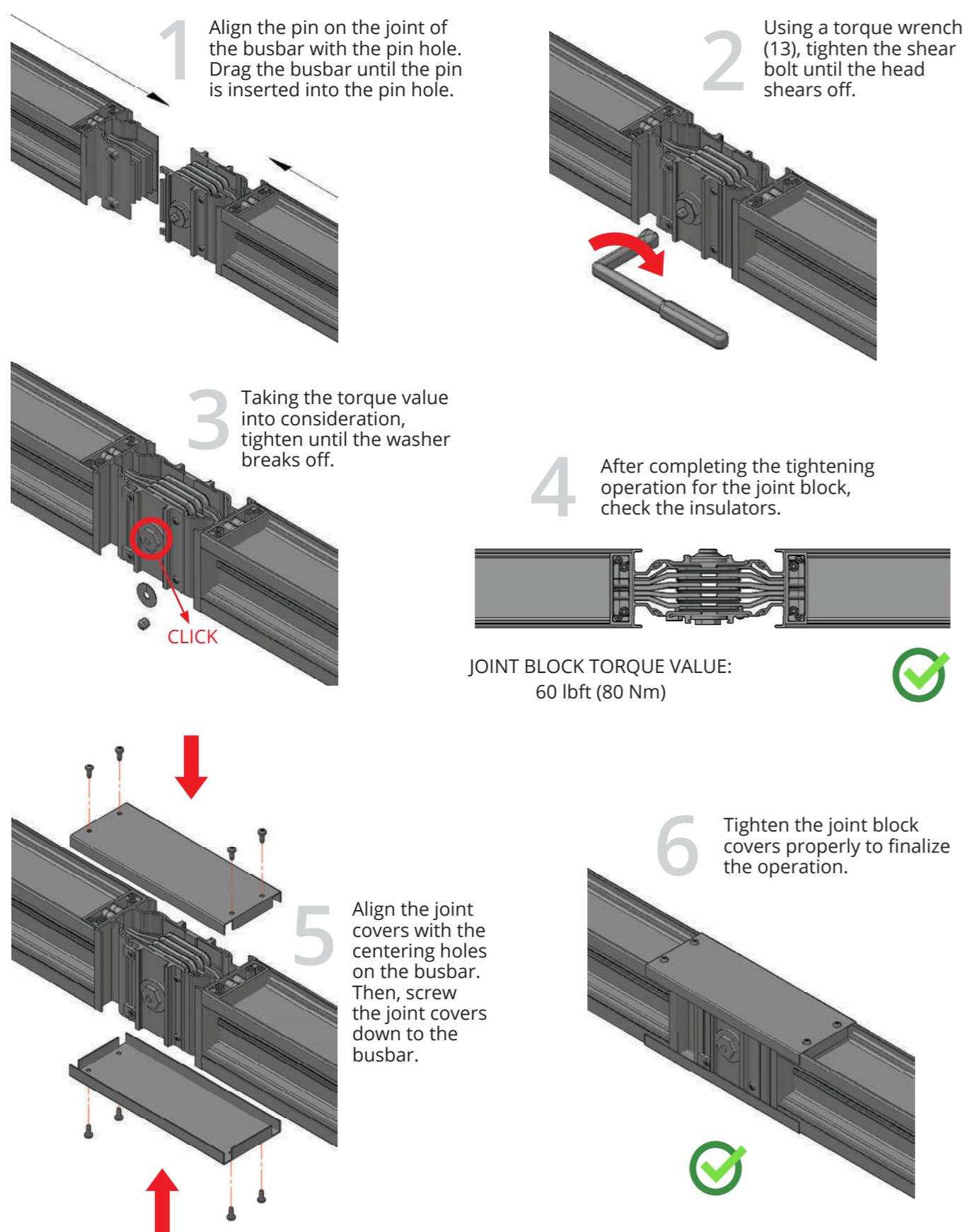


HORIZONTAL VERTICAL ELBOW MEASUREMENT

X1-X2 must be measured.
s=35mm must be subtracted. The order dimensions of Z1-Z2 must be given.

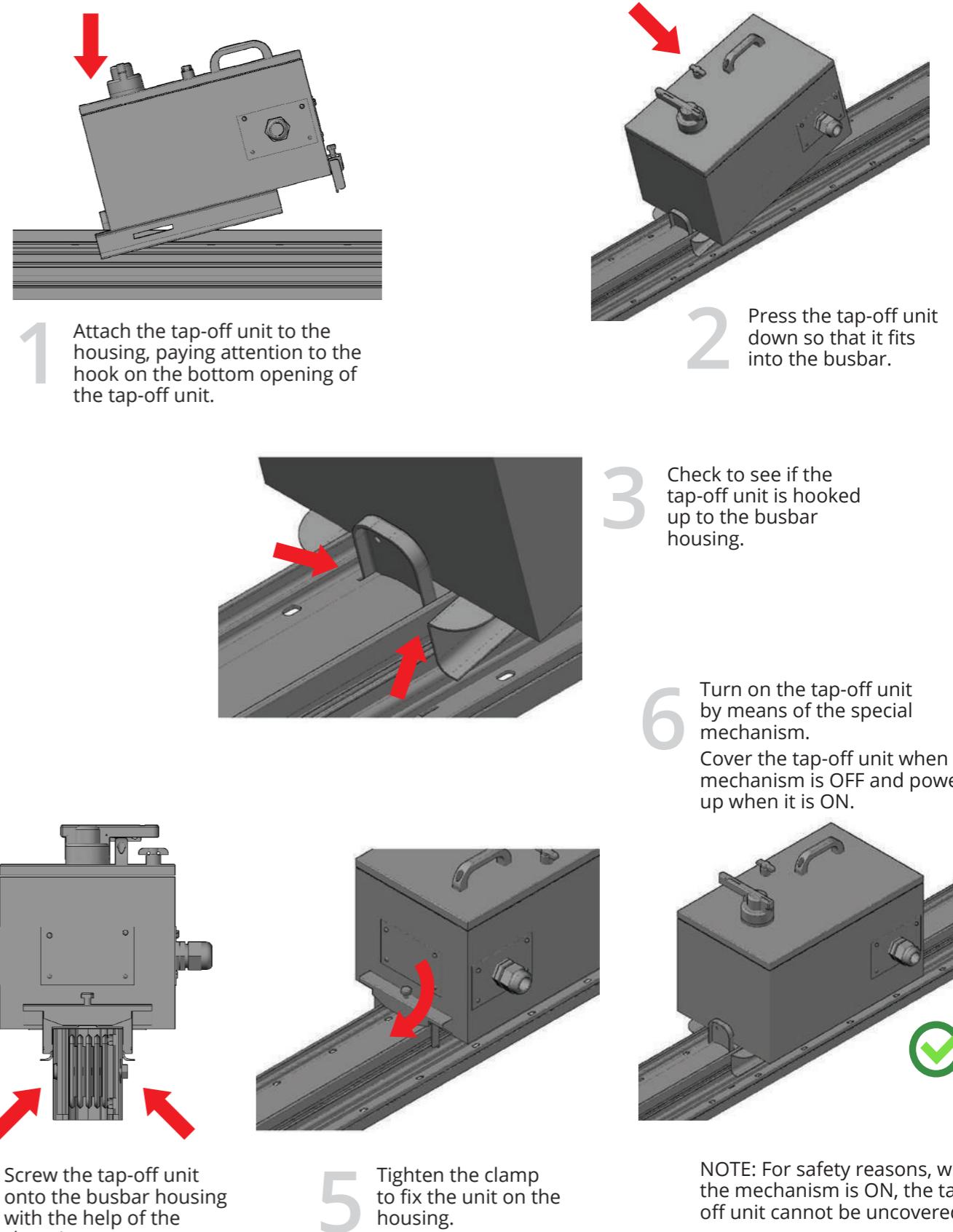


► Installation Instructions



► Please contact us for custom-length modules.

► Tap-Off Unit Installation



► Please contact us for custom-length modules.

► Declaration

EC DECLARATION OF CONFORMITY

Product Group HP-K Busbar Power Distribution Systems

Manufacturer DTM Elektroteknik San. ve Tic. A.Ş.
Çatalmeşe mah.Sultansuyu cad. No:129
34794 Çekmeköy / İstanbul

We hereby confirm that the above-stated product/product group manufactured in DTM's Plants is in conformity with the following standards and directives.

Standard**TS EN 61439-6**

Low-voltage switchgear and control gear assemblies
Part 2: Busbar trunking systems (busways)

EC Directive

(2006/95/EC) "Directive relating to electrical equipment designed for use within certain voltage limits"

Date

15.01.2015

DTM Elektroteknik A.Ş.
[Signature]

DTM Elektroteknik San. Tic. A.Ş.
Çatalmeşe Mah. Sultansuyu Cad. No:129 34794 Çekmeköy / İstanbul
Phone: +90(216) 429 51 74 • www.dtmbusbar.com

► Certificates





BUSBAR EQUIPMENT LIST

CATALOG NO	TYPE	PCS.

Please use this page by photocopying

BUSBAR EQUIPMENT LIST

CATALOG NO	TYPE	PCS.

Please use this page by photocopying

COMPANY	PROJECT	PROJECT NO



Elektroteknik A.Ş

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