

Busbar Systems 100-160-225-250A

EAE GROUP IN NUMBERS





Since 1973

EAE Group of Companies started its journey in the electrical sector in 1973 with the establishment of EAE Elektrik. Since its founding, EAE has grown rapidly, expanding its production and areas of operation by incorporating EAE Lighting in 1983, EAE Machinery in 1996, EAE Electrotechnics in 2004, and EAE Technology in 2009.

EAE carries out its production activities in accordance with ISO 9001 Quality Management, ISO 14001 Environmental Management, ISO 14064-1 Greenhouse Gas Management System, ISO 45001 Occupational Health and Safety Management, ISO 10002 Customer Satisfaction Management, ISO 50001 Energy Management System, and ISO 27001 Information Security Management System standards.







Active Factories



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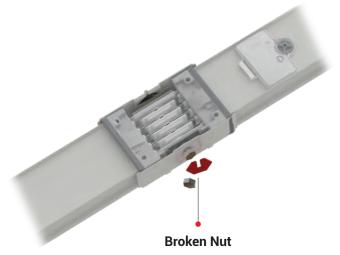
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General Characteristics



The E-Line MK prefabricated busbar trunking system is used as a vertical and horinzontal electrical energy distribution system in premises where there is a need for distribution of energy with ratings of 100A-160A-225A-250A. The busbar housing is manufactured from RAL 7038 painted galvanized sheet metal.



Tin Plated Joint Contacts

Busbar joint contacts are tin plated. The tin plating reduce contact resistance and eliminates overheatings at contact points.

Special Block Joint

Thanks to the double-head nut, the need for a torque wrench is eliminated. Since the first head of the nut tightened with an ordinary wrench is automatically broken. The first head of the nut will be broken at 20Nm.



Self-Extinguishing Material for Tap-off Boxes

Tap-off Boxes are manufactured of selfextinguishing (UL V0) and halogen-free plastic material.

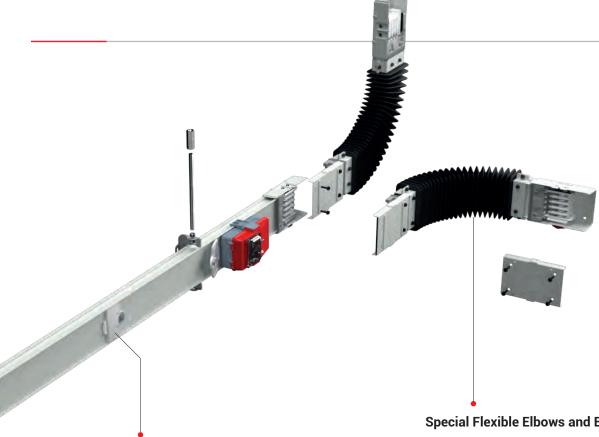


Personel Safety

When either the tapping outlet dust cover, or the tapping box is de-energised (Lid open) the minimum degree of protection IP2X is maintained. This preventing accidential contact with live contacts.

Posibility to get up to 80A energy by using tap-off boxes. Interlock mechanizm cuts the energy before opening the lid. Tap-off boxes can be installed safely and easly without additional tool.





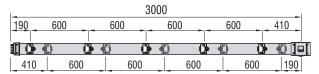
Hinged and Locked IP55 Covers

Tap-off points are protected by IP55 covers againts water and dust. These covers are fixed to the busbar housing by hinges and single point locker system.

10 Current Feeding Windows of Every Length

Provision of a total of 10 Plug-in tapping points on both sides of the busbar are provided as a standard feature.

Plug-in Points



Conductor Configuration

E-Line MK allows application of conductor configurations with options below.

a- 4 C	onductor	: L1,L2,L3,N,PE(Housing)
b- 5 C	onductor	: L1,L2,L3,N,PE,PE(Housing)
c- 5 C	onductor clean earth	.: L1,L2,L3,N,CPE,PE(Housing)

Special Flexible Elbows and Expansion Modules

Vertical and horizontal elbow and dilatation modules are solved by using a single module. Horizontal or vertical elbows at desired angle can be easily accomplished. They are also used safety at the passages of buildings, thanks to their flexibility in every direction.



Full Size Tin Plated Conductors

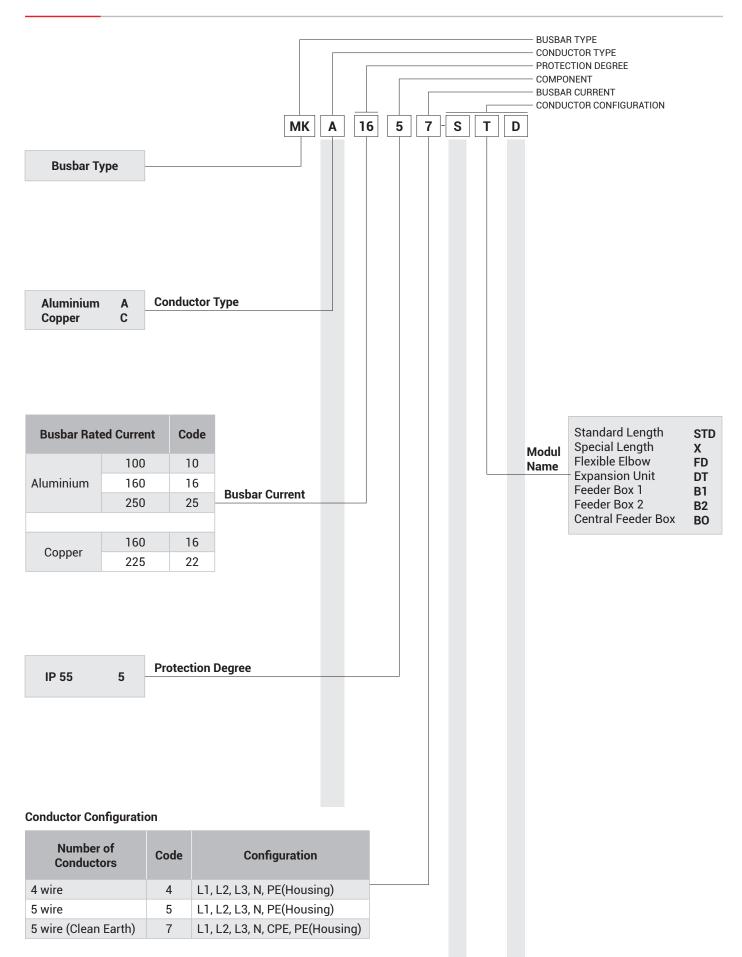
Copper and aluminium conductors are protected againts corrosion by continious tin plating at entire length. This application increase the life time of conductors and reduce contact resistances.

Fast and Easy Mounting

The mounting of units does not require any special expertise. Depending on the structure and shape of the building, all necessary accessories can be easily mounted either to the ceilling or wall. "Fast and Easy Mounting" means rapid commissioning of the system.

Order Code System





Technical Characteristics

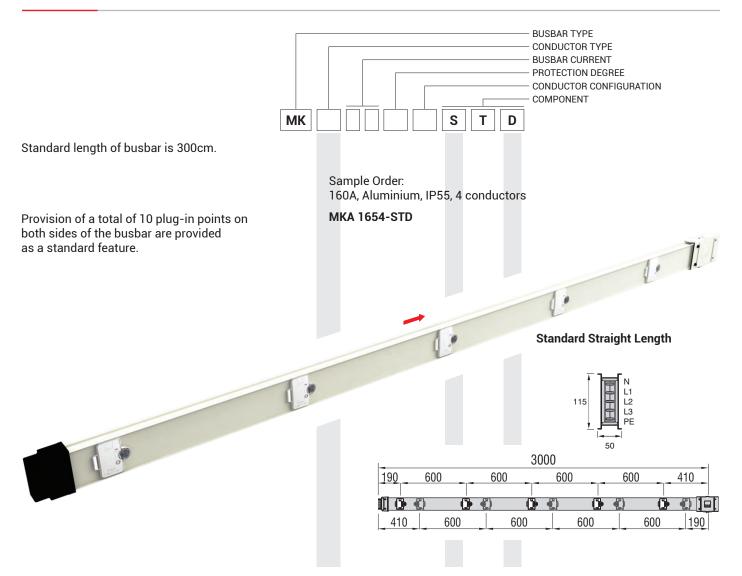


Rated Current	In	A	Aluminiu	m Conduc	tor (MKA)	Copper Cond	uctor (M
nateu Guireiit	""	A	100	160	250	160	225
Busbar Code			10	16	25	16	22
Standards	IEC 614	39-6, TS EI	N 61439-6,	IEC 6143	9-1, TS EN 6	1439-1	
Rated Isolation Voltage	Ui	V	690				
Max. Rated Operational Voltage	Ue	V	690				
Rated Frequency	f	Hz	50				
Pollution Degree	3						
Protection Degree	IP	55					
External Mechanical Impacts (IK Code)*	Plug-in E	Busbar IK07	7				
Rated Short-time Withstand Current (1s)	I _{cw}	kA _(rms)	3,5	6	6	6	10
Rated Peak Withstand Current	l _{pk}	kA	5,25	10,2	10,2	10,2	25
Rated Short-time Withstand Current for Neutral Conductor (1s)	l _{cw}	kA	2,1	3,6	3,6	3,6	7,5
Rated Peak Withstand Current for Neutral Conductor	l _{pk}	kA	3,15	5,4	5,4	5,4	12,7
Rated Short-time Withstand Current for CPE Conductor (1s)	l _{cw}	kA	2,1	3,6	3,6	3,6	7,5
Rated Peak Withstand Current for CPE Conductor	l _{pk}	kA	3,15	5,4	5,4	5,4	12,7
Rated Short-time Withstand Current for PE Conductor (1s)	l _{cw}	kA	2,1	3,6	3,6	3,6	7,5
Rated Peak Withstand Current for PE Conductor	l _{pk}	kA	3,15	5,4	5,4	5,4	12,7
MEAN PHASE CONDUCTOR CHARACTERISTICS AT RATED CURRENT In	■pk	INA.	5,15	J,4	5,4	J,4	14,1
Resistance at a conductor temperature of 20 °C	R	mΩ/m	0,640	0,391	0,277	0,405	0,25
Resistance at a conductor temperature of 25 °C	R ₂₀	mΩ/m	0,040	0,506	0,277	0,405	0,25
Reactance (Independent from Temperature)	Х	mΩ/m	0,787	0,506	0,389	0,535	0,34
· · ·	Z	-					
Positive and negative sequence impedances at an ambient air temperature of 35 °C		mΩ/m	0,802	0,525	0,416	0,558	0,36
Positive and negative sequence impedances at a conductor temperature of 20 °C	Z ₂₀	mΩ/m	0,658	0,415	0,314	0,435	0,28
Rated Power Loss at 35 °C	5/ 1	W/m	23,4	37,6	73	40,3	49,7
DC Resistance at a conductor temperature of 20 °C for Phases	R/ort _{Ph}	mΩ/m	0,608	0,378	0,282	0,389	0,24
DC Resistance at a conductor temperature of 20 °C for Neutral	R _N R _{PE}	mΩ/m	0,603	0,377	0,283	0,386	0,24
DC Resistance at a conductor temperature of 20 °C for PE		mΩ/m	0,885	0,885	0,967	0,885	0,88
DC Resistance at a conductor temperature of 20 °C for CPE	RCPE	mΩ/m	0,609	0,378	-	0,385	0,24
SECTIONS							
L1,L2,L3,N		mm²	47,25	76,50	135	47,25	76,5
PE (5 Conductors)		mm²	47,25	76,50	135	47,25	76,5
PE (Sheet Metal)		mm²	198	198	198	198	198
Conductor Dimensions		mmxmm	4,5x10,5	4,5x17	6,0X22,5	4,5x10,5	4,5x1
Busbar Weight (4 Conductors) *		kg/m	2,35	2,70	3,71	3,30	4,50
Busbar Weight (5 Conductors) *		kg/m	2,50	2,90	4,00	3,70	5,20
MEAN FAULT-LOOP CHARACTERISTICS							
Zero-sequence Impedance							
Zero-sequence impedance at a conductor temperature of 20 °C	Z _{(0)b20phN}	mΩ/m	2,801	1,866	1446	1,984	1,40
Zero-sequence impedance at a conductor temperature of 20 °C	$Z_{\text{(0)b20phPE}}$	mΩ/m	3,781	3,284	3669	3,186	3,05
Zero-sequence impedance at a conductor temperature of 20 °C	Z _{(0)b20phCPE}	mΩ/m	2,774	1,878	1,519	1,967	1,40
Zero-sequence impedance at an ambient temperature of 35 °C	$Z_{(0)bphN}$	mΩ/m	3,386	2,357	1898	2,474	1,76
Zero-sequence impedance at an ambient temperature of 35 °C	Z _{(0)bphPE}	mΩ/m	4,570	4,235	5157	4,052	4,04
Zero-sequence impedance at an ambient temperature of 35 °C	Z _{(0)bphCPE}	mΩ/m	3,350	2,374	1,956	2,453	1,75
Resistances and Reactances							
Resistance at a conductor temperature of 20 °C	R _{b20phph}	mΩ/m	1,265	0,780	0,57	0,819	0,52
Resistance at a conductor temperature of 20 °C	R _{b20phN}	mΩ/m	1,278	0,792	0,582	0,831	0,53
Resistance at a conductor temperature of 20 °C	R _{b20phPE}	mΩ/m	1,587	1,384	1,364	1,436	1,15
Resistance at a conductor temperature of 20 °C	R _{b20phCPE}	mΩ/m	1,280	0,794	-	0,830	0,53
Resistance at an ambient air temperature of 35 °C	R _{bphph}	mΩ/m	1,557	1,030	0,802	1,072	0,70
Resistance at an ambient air temperature of 35 °C	RbphN	mΩ/m	1,573	1,045	0,819	1,087	0,72
Resistance at an ambient air temperature of 35 °C	RbphPE	mΩ/m	1,954	1,827	1,917	1,879	1,56
Resistance at an ambient air temperature of 35 °C	RbphCPE	mΩ/m	1,575	1,048	-	1,085	0,72
Reactance (Independent from temperature))	Xbphph	mΩ/m	0,302	0,261	0,234	0,311	0,26
Reactance (Independent from temperature))	XbphN	mΩ/m	0,392	0,374	0,344	0,420	0,38
Reactance (Independent from temperature))	XbphPE	mΩ/m	0,392	0,491	0,435	0,420	0,55
neastance (macpendent nom temperature))	Andribute	11124/111	υ, ⊤τυ	0,701	0, 100	0,000	0,00

^{*} Joint weight is included rated 1/3 of the weight of the joint in the indicated weights per meter.

Standard Straight Length Dimensions





STD-Standard Length Busbar / Codes

Current (A)	Conductors	Aluminium (Al)	Configuration	Code
	4	MKA 1054 Busbar	L1, L2, L3, N, PE(Housing)	3024402
100	5	MKA 1055 Busbar	L1, L2, L3, N, PE+Housing	3024401
	5	MKA 1057 Busbar	L1, L2, L3, N, CPE, PE(Housing)	3024400
	4	MKA 1654 Busbar	L1, L2, L3, N, PE(Housing)	3024741
160	5	MKA 1655 Busbar	L1, L2, L3, N, PE+Housing	3024737
5		MKA 1657 Busbar	L1, L2, L3, N, CPE, PE(Housing)	3024689
	4	MKA 2554 Busbar	L1, L2, L3, N, PE(Housing)	3363348
250	5	MKA 2555 Busbar	L1, L2, L3, N, PE+Housing	3363356
	5	MKA 2557 Busbar	L1, L2, L3, N, CPE, PE(Housing)	3363363

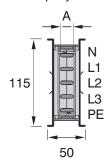
Current (A)	Conductors	Copper (Cu)	Configuration	Code
	4	MKC 1654 Busbar	L1, L2, L3, N, PE(Housing)	3024743
160	5	MKC 1655 Busbar	L1, L2, L3, N, PE+Housing	3024739
	5	MKC 1657 Busbar	L1, L2, L3, N, CPE, PE(Housing)	3024691
	4	MKC 2254 Busbar	L1, L2, L3, N, PE(Housing)	3024742
225	5	MKC 2255 Busbar	L1, L2, L3, N, PE+Housing	3024738
	5	MKC 2257 Busbar	L1, L2, L3, N, CPE, PE(Housing)	3024690

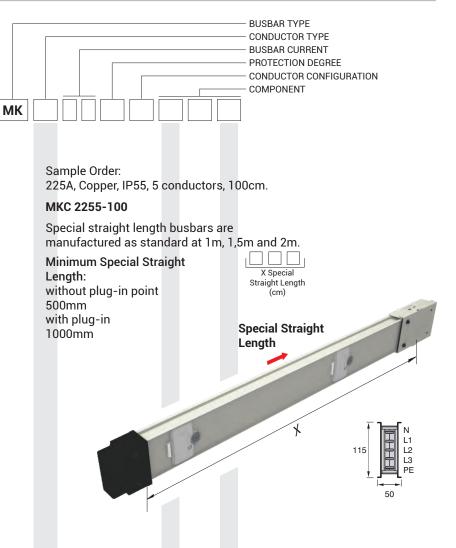
Special Straight Length Dimensions





Conductor Cross Sections For non-standard modules, please contact our company.





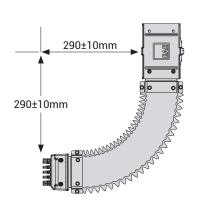
X-Special Straight Length Busbar / Codes

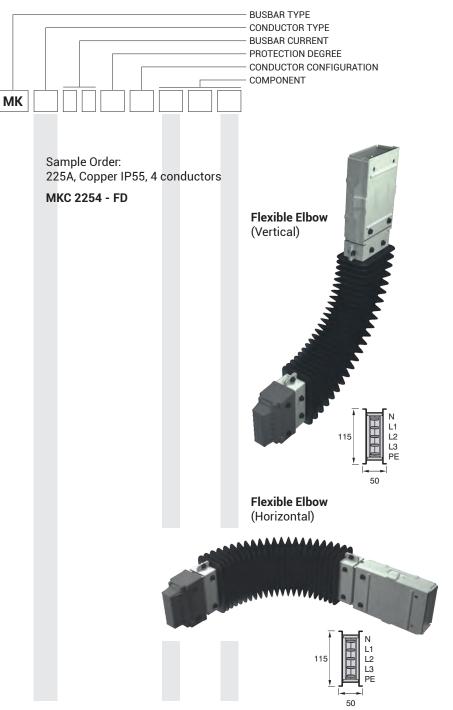
Current (A)	Conductors	Aluminium (Al)	Configuration	Code
	4	MKA 1054-X Special straight length	L1, L2, L3, N, PE(Housing)	3024396
100	5	MKA 1055-X Special straight length	L1, L2, L3, N, PE+Housing	3024397
	5	MKA 1057-X Special straight length	L1, L2, L3, N, CPE, PE(Housing)	3024395
	4	MKA 1654-X Special straight length	L1, L2, L3, N, PE(Housing)	3024710
160	5	MKA 1655-X Special straight length	L1, L2, L3, N, PE+Housing	3024706
	5	MKA 1657-X Special straight length	L1, L2, L3, N, CPE, PE(Housing)	3024685
	4	MKA 2554-X Special straight length	L1, L2, L3, N, PE(Housing)	3363349
250	5	MKA 2555-X Special straight length	L1, L2, L3, N, PE+Housing	3363357
	5	MKA 2557-X Special straight length	L1, L2, L3, N, CPE, PE(Housing)	3363364

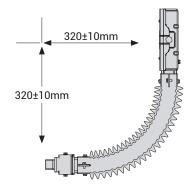
Current (A)	Conductors	Copper (Cu)	Configuration	Code
	4	MKC 1654-X Special straight length	L1, L2, L3, N, PE(Housing)	3024712
160	5	MKC 1655-X Special straight length	L1, L2, L3, N, PE+Housing	3024708
5	MKC 1657-X Special straight length	L1, L2, L3, N, CPE, PE(Housing)	3024687	
	4	MKC 2254-X Special straight length	L1, L2, L3, N, PE(Housing)	3024711
225	5	MKC 2255-X Special straight length	L1, L2, L3, N, PE+Housing	3024707
	5	MKC 2257-X Special straight length	L1, L2, L3, N, CPE, PE(Housing)	3024686

Flexible Elbows Codes







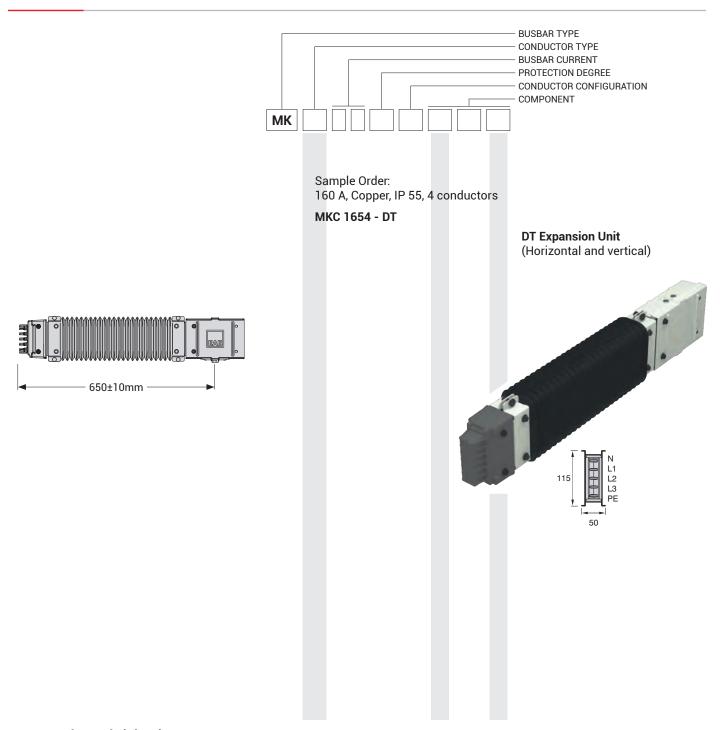


FD Flexible Elbow (Al/Cu)

Current(A)	Conductors	Copper (Cu)	Code
	4	MKA 1054-FD Flexible Elbow	3024723
100 AI	5	MKA 1055-FD Flexible Elbow	3024721
	5	MKA 1057-FD Flexible Elbow	3024697
160 Al	4	MKC 2254-FD Flexible Elbow	3024724
160 Cu	5	MKC 2255-FD Flexible Elbow	3024722
225 Cu	5	MKC 2257-FD Flexible Elbow	3024698
	4	MKA 2554-FD Flexible Elbow	3363347
250 Al	5	MKA 2555-FD Flexible Elbow	3363355
	5	MKA 2557-FD Flexible Elbow	3363362

Expansion Unit Codes



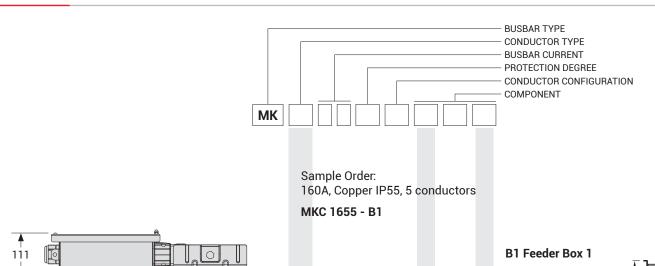


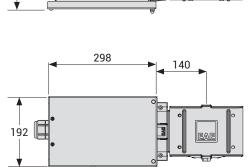
DT Expansion Unit (Al/Cu)

Current(A)	Conductors	Copper (Cu)	Code
	4	MKA 1054-DT Expansion	3024715
100 Al	5	MKA 1055-DT Expansion	3024714
	5	MKA 1057-DT Expansion	3024696
160 Al	4	MKC 2254-DT Expansion	3024720
160 Cu	5	MKC 2255-DT Expansion	3024719
225 Cu	5	MKC 2257-DT Expansion	3024699
	4	MKA 2554-DT Expansion	3363346
250 AI	5	MKA 2555-DT Expansion	3363354
	5	MKA 2557-DT Expansion	3363361

Feeder Boxes Codes







Cable Gland Plates

Current (A)	Material	Cable Gland Type	Inner Diameter (mm)
100	Al	M32	25
*160	Al	M40	32
225	Al	M50	38

*Gland plates are manufactured as per M40 gland unless it is specified during order.

B1 Feeder Box 1 (AI)

Current(A)	Conductors	Conductors Aluminium (Al)		
	4	MKA 1654-B1 Feeder Box 1	3024735	
100 Al 160 Al	5	MKA 1655-B1 Feeder Box 1	3024729	
	5	MKA 1657-B1 Feeder Box 1	3024704	

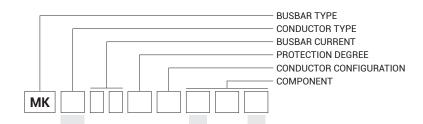
B1 Feeder Box 1 (Cu)

Current(A)	Conductors	Aluminium (Al)	Code
	4	MKC 2254-B1 Feeder Box 1	3024736
160 Cu 225 Cu	5	MKC 2255-B1 Feeder Box 1	3024730
	5	MKC 2257-B1Feeder Box 1	3024705

[•] As of January 1, 2025, it is produced in RAL 7035. For different color options, please contact our customer representatives.

Feeder Boxes Codes



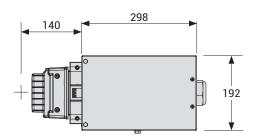


Sample Order:

160A, Aluminium IP55, 4 conductor

MKA 1654 - B2





Cable Gland Plates

Current (A)	Material	Cable Gland Type	Inner Diameter (mm)
100	Al	M32	25
*160	Al	M40	32
225	Al	M50	38

^{*}Gland plates are manufactured as per M40 gland unless it is specified during order.

B2 Feeder Box 2 (AI)

Current(A)	Conductors	Aluminium (Al)	Code
	4	MKA 1654-B2 Feeder Box 2	3024733
100 Al 160 Al	5	MKA 1655-B2 Feeder Box 2	3024727
100 AI	5	MKA 1657-B2 Feeder Box 2	3024702



B2 Feeder Box 2

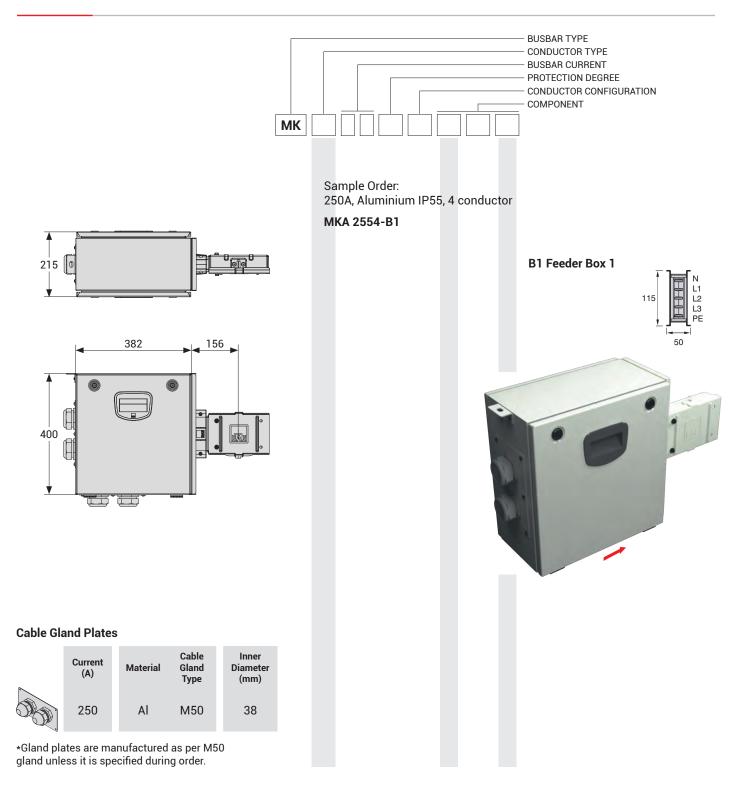
B2 Feeder Box 2 (Cu)

Current(A)	Conductors	Aluminium (Al)	Code
	4	MKC 2254-B2 Feeder Box 2	3024734
160 Cu 225 Cu	5	MKC 2255-B2 Feeder Box 2	3024728
	5	MKC 2257-B2 Feeder Box 2	3024703

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Feeder Boxes Codes





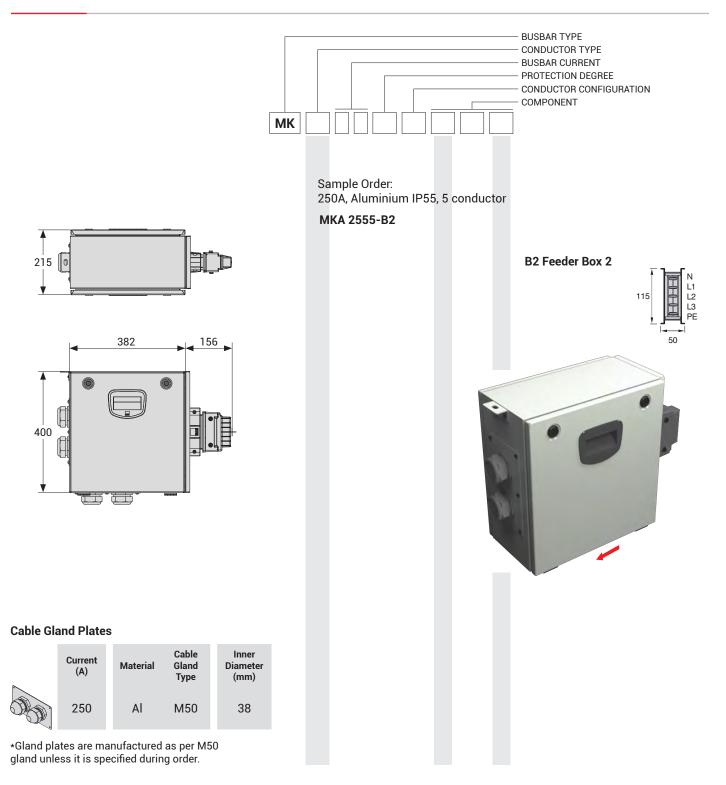
B1 Feeder Box 1 (AI)

Current(A)	Conductors	Aluminium (Al)	Code
	4	MKA 2554-B1 Feeder Box 1	3377225
250 AI	5	MKA 2555-B1 Feeder Box 1	3377230
	5	MKA 2557-B1 Feeder Box 1	3377233

[•] As of January 1, 2025, it is produced in RAL 7035. For different color options, please contact our customer representatives.

Feeder Boxes Codes





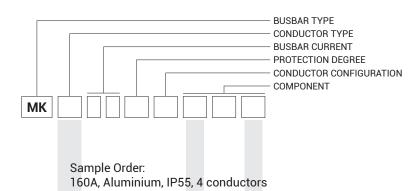
B2 Feeder Box 2 (AI)

Current(A)	Conductors	Aluminium (Al)	Code
	4	MKA 2554-B2 Feeder Box 2	3377226
250 Al	5	MKA 2555-B2 Feeder Box 2	3377232
	5	MKA 2557-B2 Feeder Box 2	3377234

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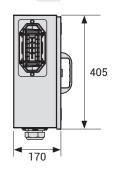
Feeder Boxes Codes

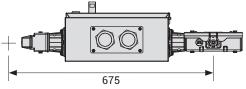




MKA 1654-BO

160 355 160





Cable Gland Plates

6	Current (A)	Material	Cable Gland Type	Inner Diameter (mm)
9	100	Al	M32	25
	*160	Al	M40	32
	225	Al	M50	38

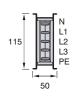
*Gland plates are manufactured as per M40 gland unless it is specified during order.

BO-Central Feeder Box (AI)

		` '	
Current(A)	Conductors	Aluminium (Al)	Code
	4	MKA 1654-BO Central F.B.	3024731
100 Al 160 Al	5	MKA 1655-BO Central F.B.	3024725
	5	MKA 1657-BO Central F.B.	3024700
	4	MKA 2554-BO Central F.B.	3377227
250 Al	5	MKA 2555-BO Central F.B.	3377239
	5	MKA 2557-BO Central F.B.	3377237

BO-Central Feeder Box





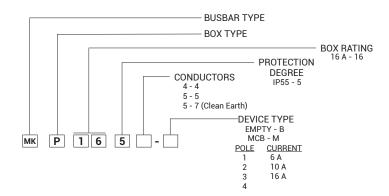
BO-Central Feeder Box (Cu)

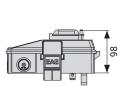
Current(A)	Conductors	Aluminium (Al)	Code
	4	MKC 2254-BO Central F.B.	3024732
160 Cu 225 Cu	5	MKC 2255-BO Central F.B.	3024726
	5	MKC 2257-BO Central F.B.	3024701

[•] As of January 1, 2025, it is produced in RAL 7035. For different color options, please contact our customer representatives.

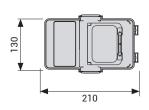
Tap-Off Boxes Codes











Standard Tap-Off Boxes (EMPTY)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 1654-B Tap-Off Box	L1, L2, L3, N, PE(Housing)		3024695
16	5	MKP 1655-B Tap-Off Box	L1, L2, L3, N, PE+Housing	Suitable for MCB/Fuse holder	3024694
	5	MKP 1657-B Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024693

[•] Maximum size of outgoing cable Ø13 mm.

Standard Tap-Off Boxes (MCB)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 1654-M Tap-Off Box	L1, L2, L3, N, PE(Housing)	1x16 with MCB	3024677
	4	MKP 1654-M Tap-Off Box	LT, LZ, L3, N, PE(Housing)	3x16 with MCB	3024668
	E	MKP 1655-M Tap-Off Box	L1 L2 L2 N DE Housing	1x16 with MCB	3024676
16	5 5	MKP 1655-M Tap-Off Box	L1, L2, L3, N, PE+Housing	3x16 with MCB	3024667
		MKP 1657-M Tap-Off Box	L1 L0 L0 N ODE DE(U	1x16 with MCB	3024675
		5	MKP 1657-M Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)	3x16 with MCB

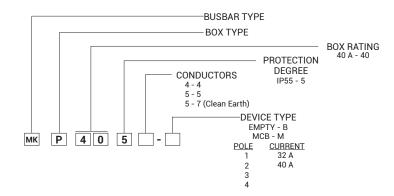
[•] Maximum size of outgoing cable Ø13 mm.

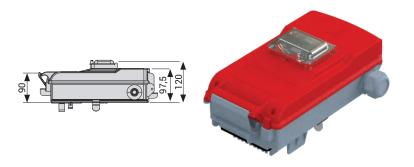
Tap-off boxes with sockets are supplied with 16A MCB as standard. For the tap-off boxes with sockets, please contact to supplier. Warning: For balancing phase loads, please calculate and select the correct tap-off box types and quantities.

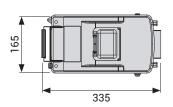
[•] For non-standard tap off boxes, please contact our company.

Tap-Off Boxes Codes (40A)









Standard Tap-Off Boxes (EMPTY)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 4054-B Tap-Off Box	L1, L2, L3, N, PE(Housing)		3024665
40	5	MKP 4055-B Tap-Off Box	L1, L2, L3, N, PE+Housing	Suitable for MCB/Fuse holder	3024664
	5	MKP 4057-B Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024663

[•] Maximum size of outgoing cable Ø22 mm.

Standard Tap-Off Boxes (MCB)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 4054-M Tap-Off Box	L1, L2, L3, N, PE(Housing)		3024662
40	5	MKP 4055-M Tap-Off Box	L1, L2, L3, N, PE+Housing	3 x 40 A with MCB	3024661
	5	MKP 4057-M Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024660

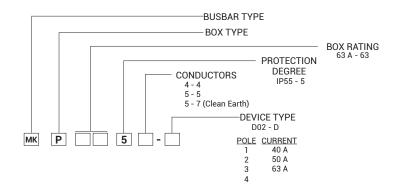
[•] As standard with 3x40A automatic fuse is used in boxes. • Maximum size of outgoing cable Ø22 mm.

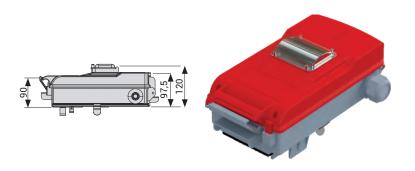
Tap-off boxes with sockets are supplied with 40A MCB as standard. For the tap-off boxes with sockets, please contact to supplier. Warning: For balancing phase loads, please calculate and select the correct tap-off box types and quantities.

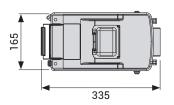
[•] For non-standard output boxes, please contact our company.

Tap-Off Boxes Codes









Standard Tap-Off Boxes (D02)

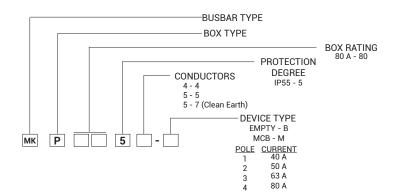
Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 6354-D Tap-Off Box	L1, L2, L3, N, PE(Housing)	3x63 A D02 Type Fuse Base	3024623
63	5	MKP 6355-D Tap-Off Box	L1, L2, L3, N, PE+Housing		3024631
	5	MKP 6357-D Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024630

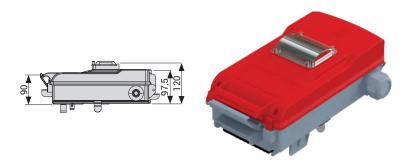
[•] Maximum size of outgoing cable Ø22 mm. • As standard with 3x63A D02 type fuse base is used in boxes. For output boxes with plug, please contact our company.

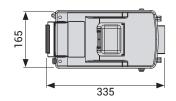
As standard with 3x63A D02 type fuse base is used in boxes. For output boxes with plug, please contact our company. Warning: For balancing phase loads, please calculate and select the correct tap-off box types and quantities.

Tap-Off Boxes Codes (80A)









Standard Tap-Off Boxes (EMPTY)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 8054-B Tap-Off Box	L1, L2, L3, N, PE(Housing)	L2, L3, N, PE+Housing Suitable for MCB/Fuse holder	3024718
80	5	MKP 8055-B Tap-Off Box	L1, L2, L3, N, PE+Housing		3024717
	5	MKP 8057-B Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024716

[•] Maximum size of outgoing cable Ø22 mm.

Standard Tap-Off Boxes (EMPTY)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	4 MKP 8054-M Tap-Off Box L1, L2, L3, N, PE(Housing)	3024659		
80	5	MKP 8055-M Tap-Off Box	L1, L2, L3, N, PE+Housing	Suitable for MCB/Fuse holder	3024658
	5	MKP 8057-M Tap-Off Box	L1, L2, L3, N, CPE, PE(Housing)		3024657

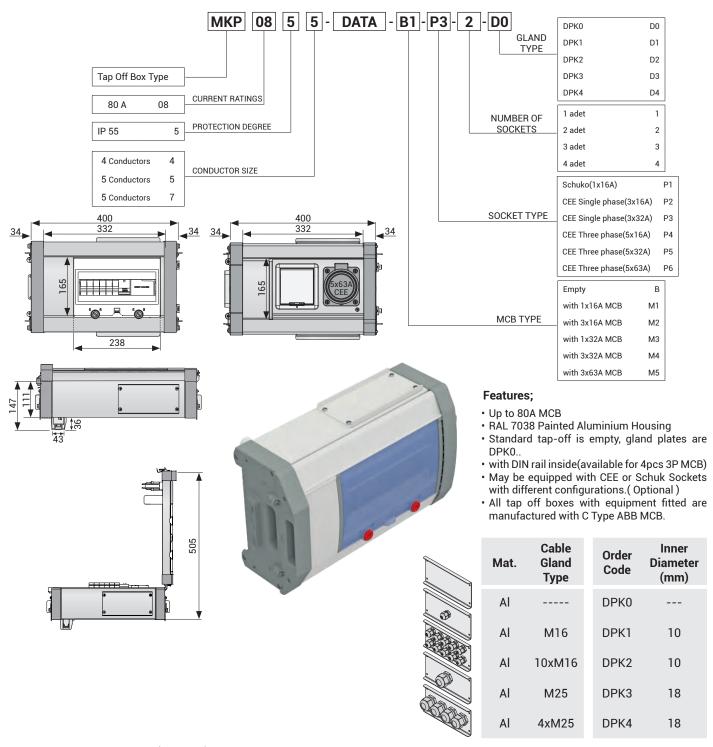
[•] As standard with 3x80A MCB.. • Maximum size of outgoing cable Ø22 mm.

Tap-off boxes with sockets are supplied with 80A MCB as standard. For the tap-off boxes with sockets, please contact to supplier. Warning: For balancing phase loads, please calculate and select the correct tap-off box types and quantities.

[•] For non-standard output boxes, please contact our company.

Tap off Boxes (MKP-DATA) (80A)





Standard Tap-Off Boxes (EMPTY)

Current(A)	Conductors	Description	Configuration	Device	Code
	4	MKP 8054-DATA-B1 Tap-off Box	L1, L2, L3, N, PE(Housing)		3046458
80	5	MKP 8055-DATA-B1 Tap-off Box	L1, L2, L3, N, PE+Housing	Suitable for MCB	3043818
	5	MKP 8057-DATA-B1 Tap-off Box	L1, L2, L3, N, CPE, PE(Housing)	52	3063567

[•] Maximum size of outgoing cable Ø22 mm.

For the tap-off boxes with sockets and MCB, please contact to supplier.

Note: For balancing phase loads, please calculate and select the correct tap-off box types and quantities.

[•] For non-standard output boxes, please contact our company.

Fixing Elements



	Code	
BRA9-2	Steel Dowel (M8)	5000033
BRA10	Extension Unit (M8)	1004313
BRA11-05	Threaded Rod (M8x500)	5000039
BRA11-10	Threaded Rod (M8x1000)	5000038
BRA11-15	Threaded Rod (M8x1500)	5000035
BRA11-20	Threaded Rod (M8x2000)	5000036

Steel Dowel (M8) Extension Unit Threaded Rod

Fixing Elements

Description	Code	
MK-UT Universal Fixing Element	2052178	





Extension Unit

Threaded Rod

MK-UT
Universal
Fixing
Element

Steel

Dowel (M8)

Roof Installation



Wall Installation

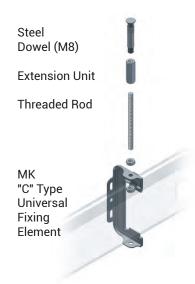
[•] The span between supports should be 1.5m

Fixing Elements



Description	Code
MK "C" Type Universal Fixing Element	1004188





Roof Installation

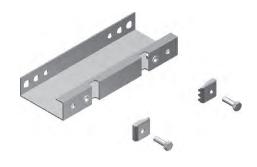


Floor Installation



Wall Installation

Description	Code
MK Vertical Fixing Element	3025370



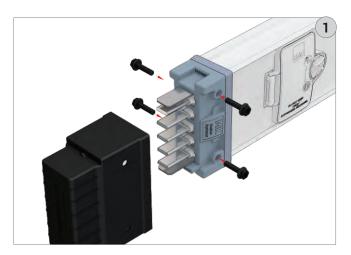


Vertical Shaft Installation

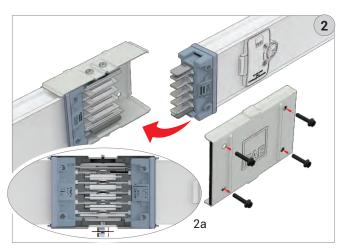
[•] The span between supports should be 1.5m

Busbar Joint Installation

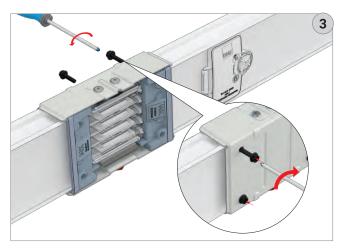




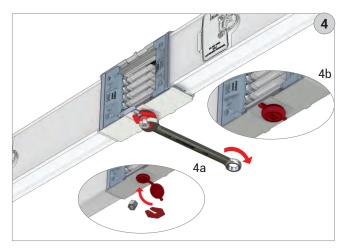
Remove the protective plastic cover.



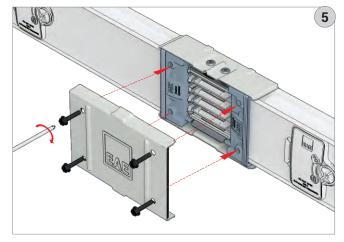
Alligne two busbars like the picture-2a and insert the busbar conductors into the block joint.



Tighten the bolts of rear cover. (3a)



Tighten the main bolt until the first nut is broken. (4a)



Fix the remaining front cover.

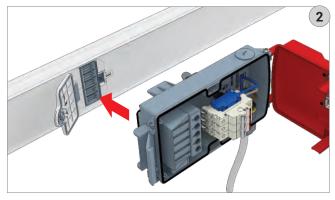


Tap-Off Box Installation Instructions (40-63-80A)

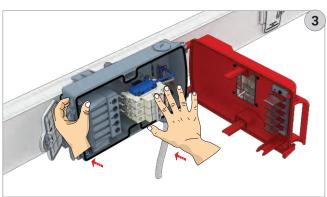




Attach the cable, which has a cross section suitable to the switch current, before you install the box to the busbar.

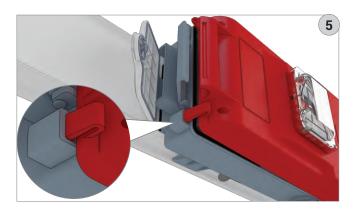


When the tap-off box cover is at open position; locate the box contacts to the busbar plug area by aligning them.

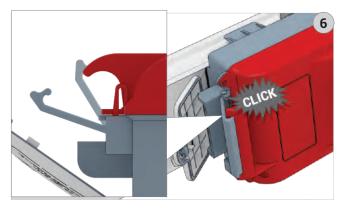




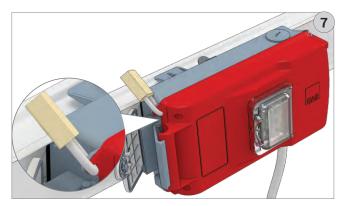
Be sure that the retaining springs are attached to the busbar.



When closing the cover of the box; insert the safety-tongue into the seat by finger touch.



Lock the cover lock by pressing it towards the arrow direction.



Take cover box with lock for safety.

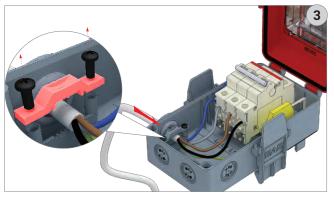
- · Empty tap-off boxes are produced with MCB connection cables.
- When the tap-off boxes are used as single phase, the switch will be connected to one of the phase cables.
- · Remaining phase cables should be insulated by using cable terminals for your safety. In order to balance phases of busbar, connected loads to the tap off boxes should be calculated carefully.

Tap-Off Box Installation Instructions (16A)

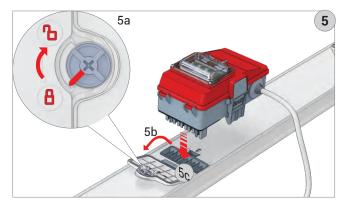




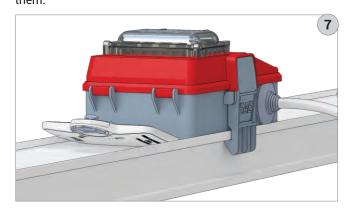
1- Remove the cover screws.

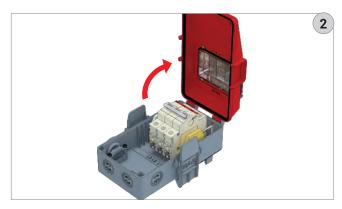


3- Connect a cable, which has suitable cross section, to the switch, before you install the box to the busbar.



5- Fix the box contacts to the busbar plug area by aligning them.

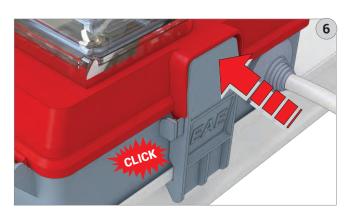




2- Open the cover..



4- Tighten the removed cover screws.



6- Be sure that, the box is fixed to the busbar properly.

- Empty tap-off boxes are produced with MCB connection cables.
- When the tap-off boxes are used as single phase, the switch will be connected to one of the phase cables.
- Remaining phase cables should be insulated by using cable terminals for your safety.
- In order to balance phases of busbar, connected loads to the tap off boxes should be calculated carefully.

[•] As of January 1, 2025, it is produced in RAL 7035. For different color options, please contact our customer representatives.

Declaration



CE DECLARATION OF CONFORMITY

Product Group E-Line MKA / MKC Busbar Energy Distribution System

Manufacturer EAE Elektrik Asansor End. Insaat San. ve Tic. A.S.

Akcaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

The objects of the declaration described below is in conformity with the relevant Union harmonisation legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer

Standart:

TS EN 61439-6

Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems

CE - Yönetmeliği:

2014/35/EU "The Low Voltage Directive""

2014/30/EU "Electromagnetic Compatibility (EMC) Directive""

2011/65/EU "Restriction of the use of certain hazardous substances (RoHS)"

Technical Document Preparation Official:

EAE Elektrik Asansor End. Insaat San. ve Tic. A.S. Akcaburgaz Mahallesi, 3114. Sokak, No:10 34522 Esenyurt-Istanbul

Mustafa AKCELIK

Date

20.04.2025

Document Authorized Signatory

Elif Gamze KAYA OK Deputy General Manager

Product Overview (100...250A MK)



- 1- It is imperative that the busbar system be in a nominal current range of 100, 160, 250A Al or 160, 225A Cu.
- 2- Manufacturing facility of busbar systems shall have ISO 9001 and ISO 14001 certification.
- 3- The busbar system shall conform to the following phase configuration.

a- 4 conductors L1 / L2 / L3 / N / PE(Housing)
b- 5 conductors L1 / L2 / L3 / N / PE+Housing
c- 5 conductors (with clean earth))
L1 / L2 / L3 / N / CPE / PE(Housing)

- 4- The insulation voltage of the busbar shall be 690V.
- 5- The busbar housing shall be of 0,50mm thick epoxy painted galvanized sheet metal. (RAL 7038)
- 6- The Al conductors shall be plated with nickel and then with tin, the Cu conductors shall be plated only with tin. The plating shall be continuous along the conductor
- 7- The busbar joint shall have a single bolt construction and the nut of main joint bolt shall be a double headed nut, tightened at 20Nm.
- 8- The busbar housing shall be continuously clamped together by roll forming method.
- 9- 10 plug-in windows shall be located on a standard 3m length..
- 10- Busbar and tap off boxes shall be IP55 protection class under normal operation conditions.
- 11- IP protection covers of plug-in points shall be hinged and lockable from single point.
- 12- Tap off boxes up to 16A shall be removed from the busbar before opening their lids.
- 13- The tap off boxes above 16A, shall have the following mechanical and electrical safety features.
- a- The box shall only be plugged in and removed from the busbar at "OFF" position.
- b- The energy on the connected load shall be automatically cut, when the box lid is open.
- c- The tap off box shall comply IP2X requirements, while it is plugged into the busbar and the lid is open.
- 14- All tap off box contacts shall be silver plated.
- 15- Jawed tap off box contacts shall be reinforced by steel springs.
- 16- Busbar systems shall be tested and certified according to IEC 61439-6 by international laboratories.
- 17- Busbar system shall have flexible elbows and expansion units...

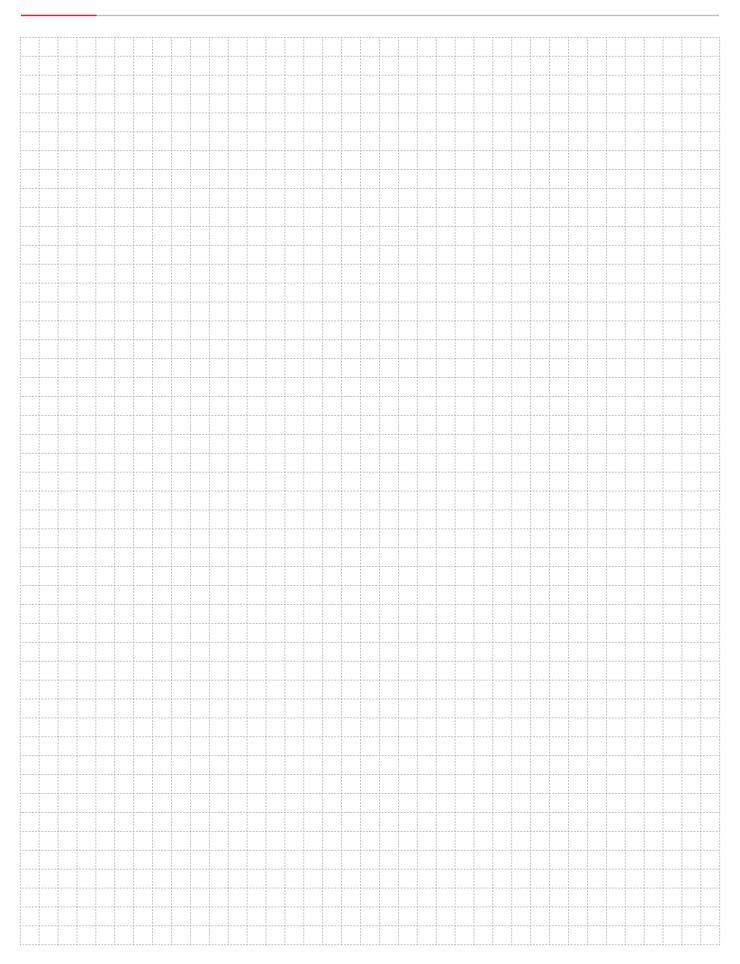
Certificate





Notes





SUSTAINABLE FUTURE

Sustainability Management at EAE Elektrik



As part of our goal to support sustainable development and green transformation, measuring, evaluating, and managing all economic, environmental, and social impacts resulting from our sustainability practices is a key governance priority for EAE Elektrik. We act with great care in analyzing, monitoring, and managing the economic, environmental, and social impacts and risks that arise throughout our value chain in both our national and global operations.





EAE Elektrik Head Office

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EAE DL 3 Factory

Busbar

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