



E-LINE KD-III

Data Rack Busway Systems 250A...800A



E-LINE KD-III

DATA RACK BUSWAY

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www.eaeusa.us



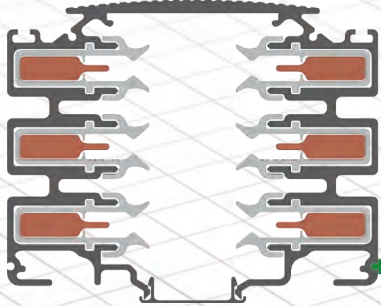
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E-LINE KD-III

►►Overview

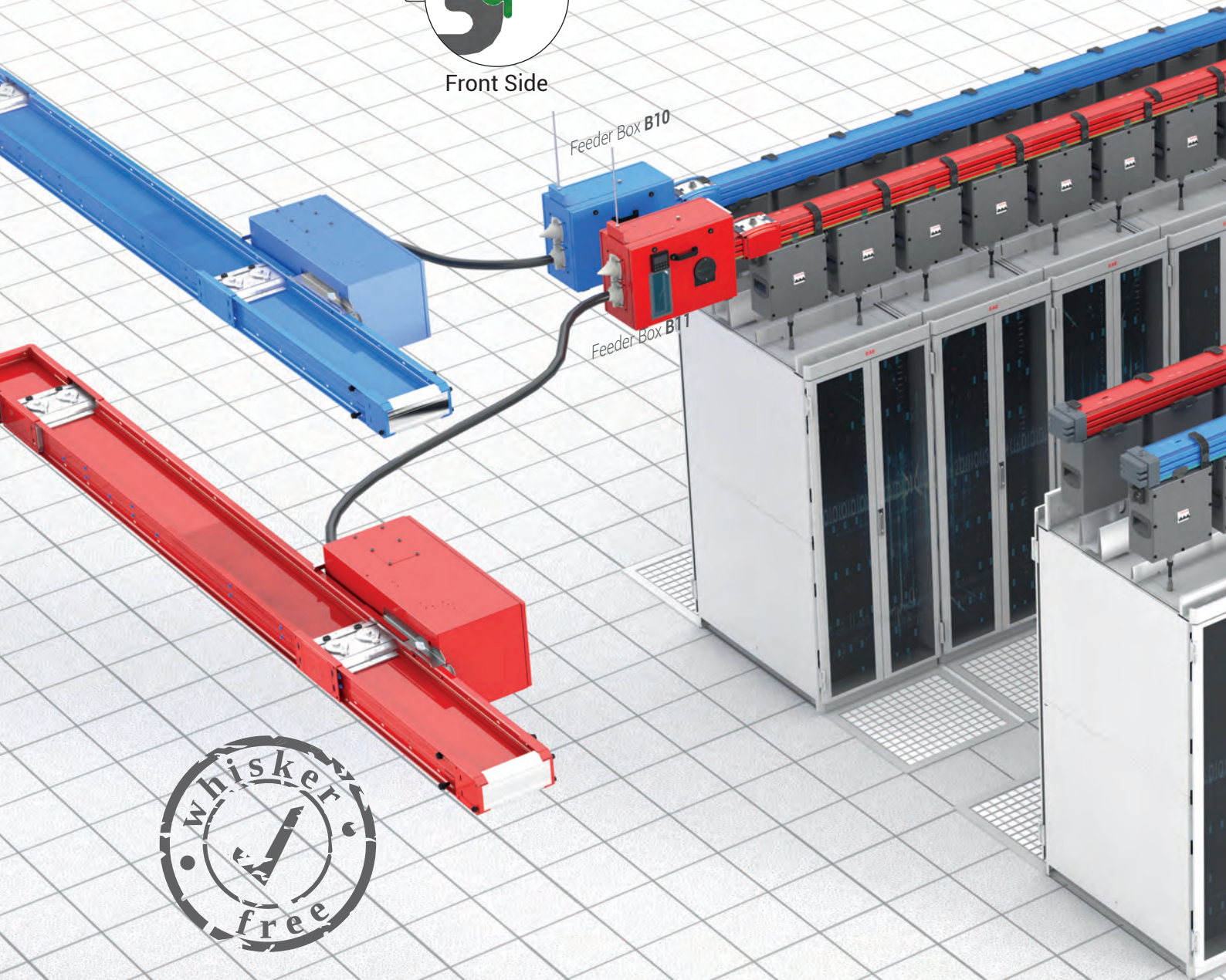
To power the mission critical IT infrastructures on the Data Rack Cabinets, EAE offers a highly flexible and reliable BUSWAY System to meet the "Scalability" challenge in the Data Centers finding the way to Moves, Adds and Changes (MACs).



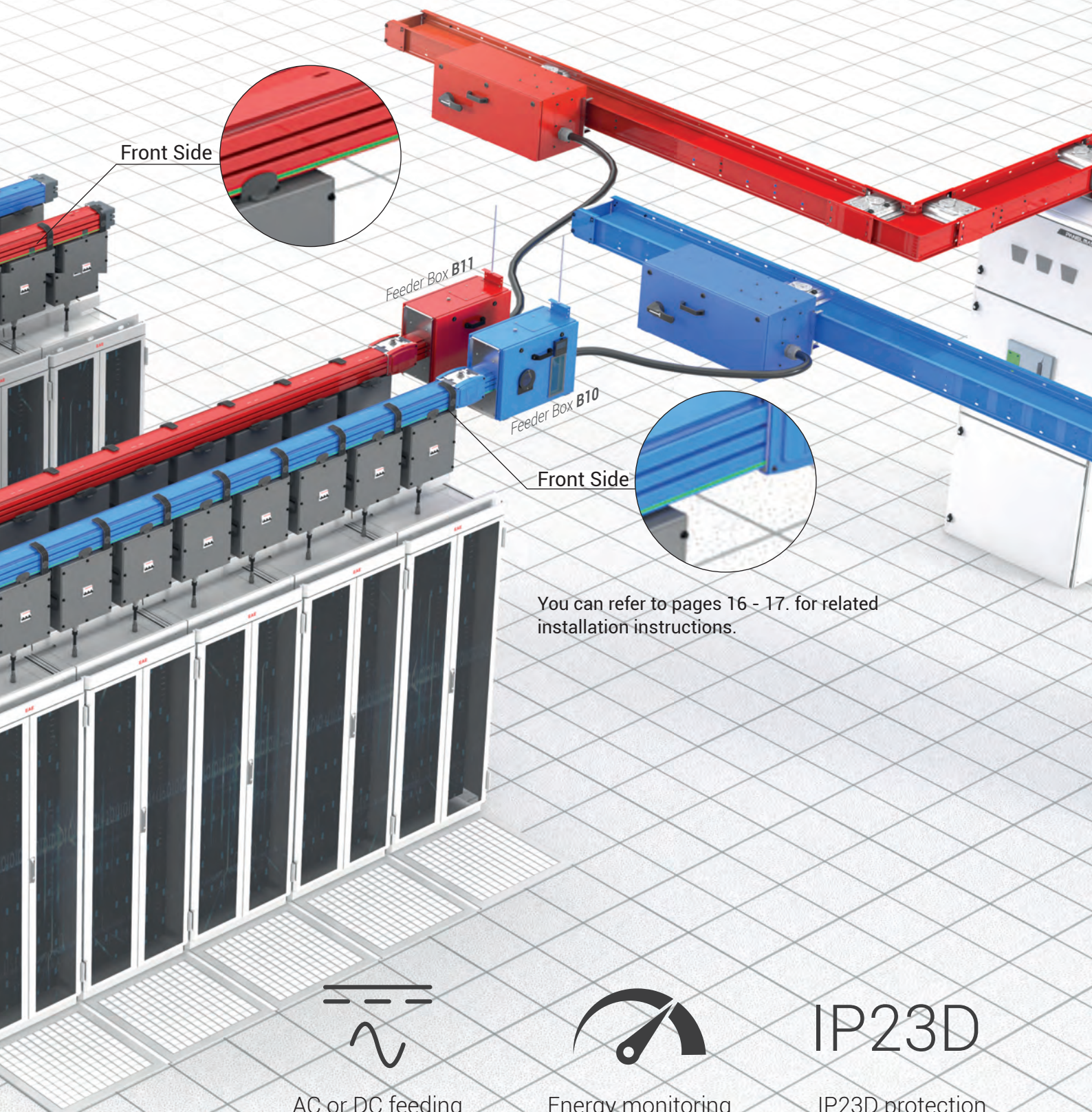
Al or Cu conductor options with whisker free coating



Front Side

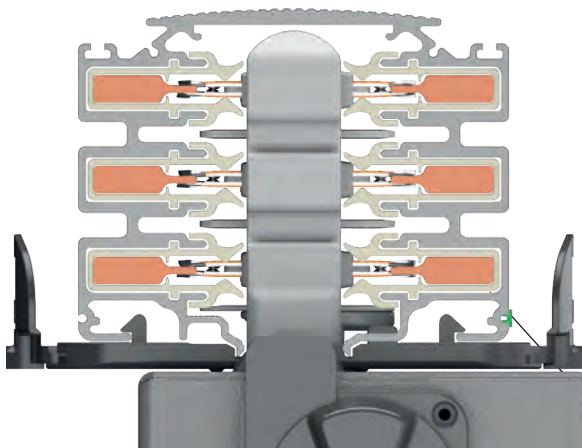


Whisker free and tin plated solid form conductors ensure for better heat dissipation, higher short circuit values and longer operation life while significantly contributing to the "Availability" challenge in the data center environments



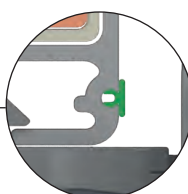
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►►Overview

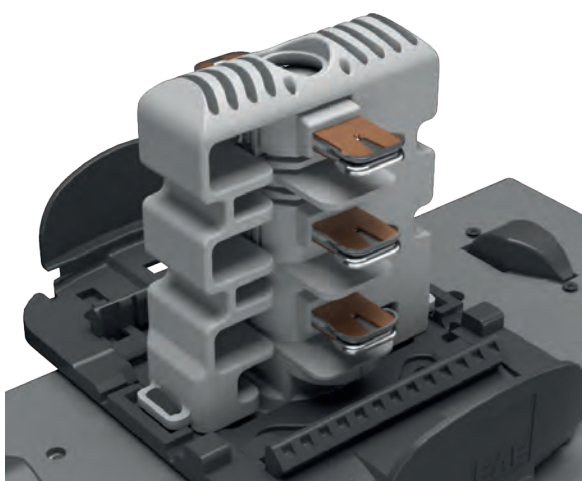


Plug-n-Play

Easy plug-in Tap-Off Boxes on any point along the BUSWAY, remove and relocate wherever necessary



Front Side



Tap-Off Contacts

Constant contact pressure with double sided spring system and safe locking mechanism on Tap-Off Box contacts

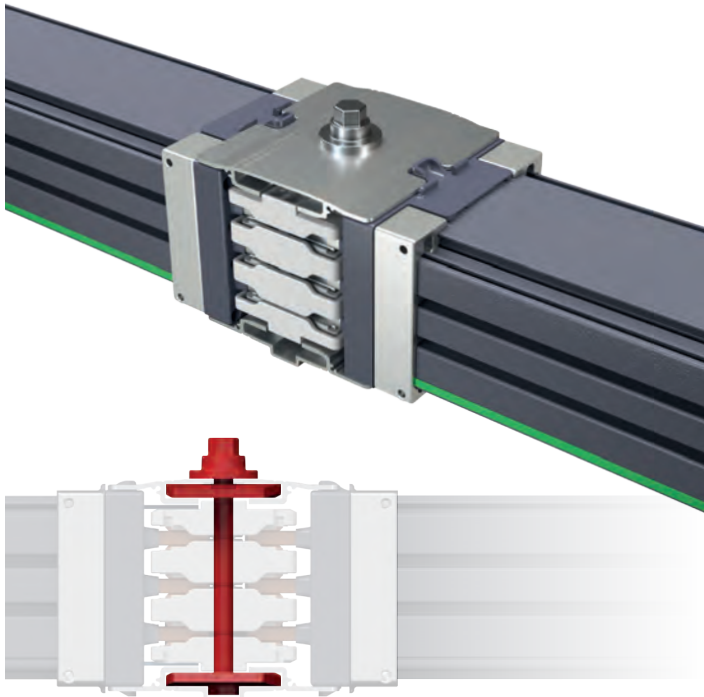


Snap-In Suspension Mechanism

Easy and fast structural mounting thanks to Snap-In Fixing Unit

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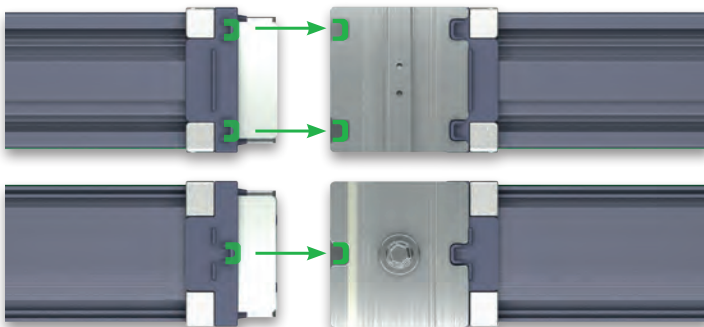
►►Overview



Joint Mechanism

Safe alignment mechanism with a single bolt monoblock joint for correct installation and operation

Front Side



Easy and Safe Installation

Patented EAE Alignment Solution, ideal alignment of the block joint element and BUSWAY thanks to the alignment guides on the joint area

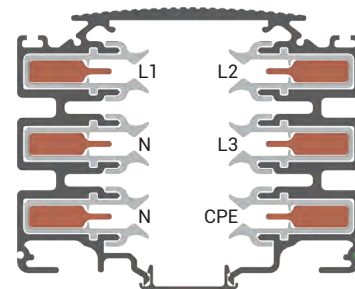


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►►Technical Characteristics

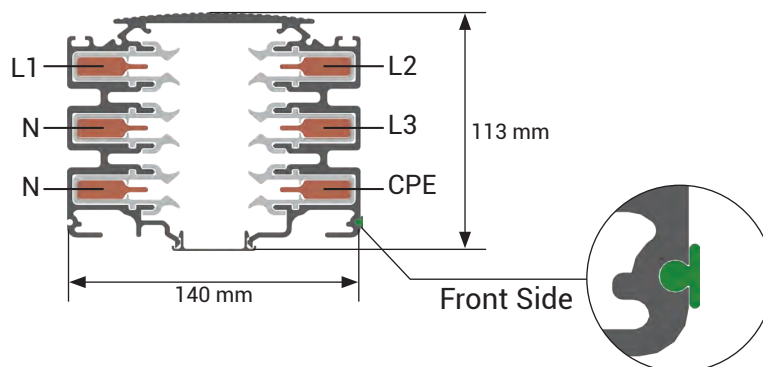


Standards	UL 857
Rated Isolation Voltage	Ui: 600 V
Max. Rated Operational Voltage	Ue:600 V
Rated Frequency	f: 50 - 60 Hz

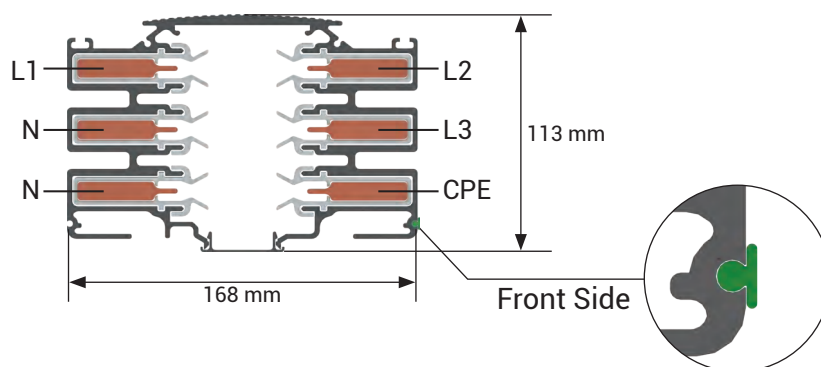


			KDA - Al		
			TYPE 1		TYPE 2
RATED CURRENT	I_n	A	250	400	600
BUSWAY CODE			02	04	06
Symmetrical Short Circuit Rating (3 Cycle)	I _{scw}	kA(rms)	22	25	30
Short Circuit Conditional Rating (KAIC) at 480V	I _{cc}	kA _(rms)	65	65	65
Resistance	R	mΩ/m	0,269	0,192	0,139
Reactance at 60Hz	X	mΩ/m	0,083	0,072	0,059
Impedance at 60Hz	Z	mΩ/m	0,282	0,205	0,151
GROUND CHARACTERISTIC UNDER FAULT CONDITION					
Resistance	R	mΩ/m	0,344	0,254	0,189
Reactance at 60Hz	X	mΩ/m	0,081	0,075	0,058
Impedance at 60Hz	Z	mΩ/m	0,353	0,264	0,198
SECTIONS					
L1.L2.L3.N		mm ²	94	230	360
PE (4 ½ Conductors)		mm ²	47	115	180
PE (5 Conductors)		mm ²	94	230	360
(6 Conductors)		mm ²	94	230	360
Aluminium Housing Section		mm ²	3302	3302	3302
Busway Weight (4 Conductors)		kg/m	11,8	12,6	16,3
Busway Weight (5 Conductors)		kg/m	12,2	13,3	17,3
VOLTAGE DROP FULL LOAD 60Hz per m					
Power Factor = 0.4		V/m	0,0798	0,0990	0,1143
Power Factor = 0.5		V/m	0,0897	0,1098	0,1256
Power Factor = 0.6		V/m	0,0988	0,1196	0,1357
Power Factor = 0.7		V/m	0,1072	0,1284	0,1446
Power Factor = 0.8		V/m	0,1149	0,1363	0,1522
Power Factor = 0.9		V/m	0,1208	0,1416	0,1568
Power Factor = 1.0		V/m	0,1523	0,1823	0,2050

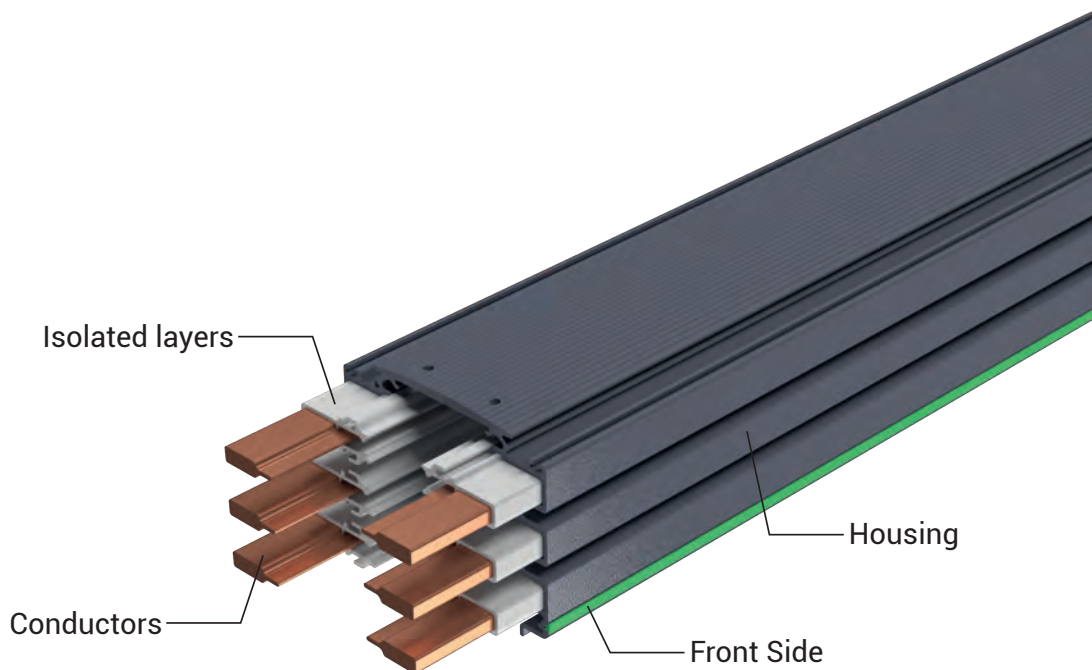
►Housing Type 1: 250A...400A (Al), 250A...400A... 600A...(Cu)



►Housing Type 2: 600A (Al), 800A (Cu)

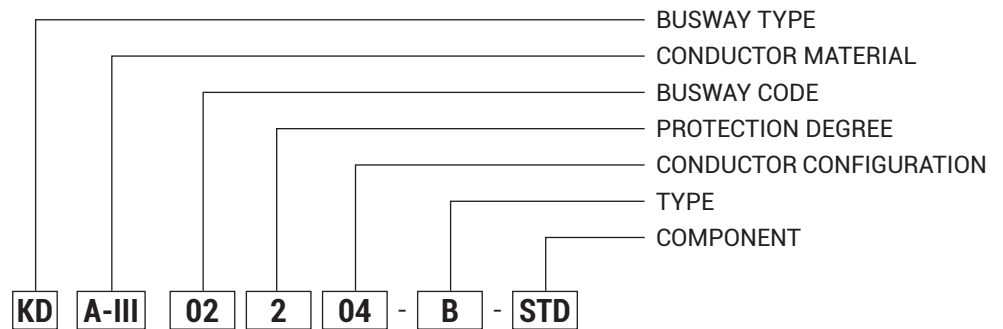


KDC - Cu			
TYPE 1			TYPE 2
250	400	600	800
02	04	06	08
25	25	25	30
65	65	65	65
0,233	0,172	0,127	0,091
0,097	0,085	0,073	0,059
0,252	0,192	0,146	0,108
0,299	0,239	0,194	0,147
0,103	0,087	0,070	0,064
0,316	0,254	0,206	0,161
94	148	230	360
47	74	115	180
94	148	230	360
94	148	230	360
3302	3302,0	3302	3565
13,6	11,6	14,3	26,43
14,6	13,0	17,0	29,68
0,0789	0,1020	0,1226	0,1254
0,0869	0,1109	0,1320	0,1339
0,0940	0,1187	0,1398	0,1408
0,1003	0,1253	0,1462	0,1461
0,1058	0,1307	0,1510	0,1498
0,1091	0,1332	0,1520	0,1493
0,1423	0,1776	0,2070	0,2068



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►►Order Code System



BUSWAY Type

Aluminium (Al) **A**
Copper (Cu) **C**

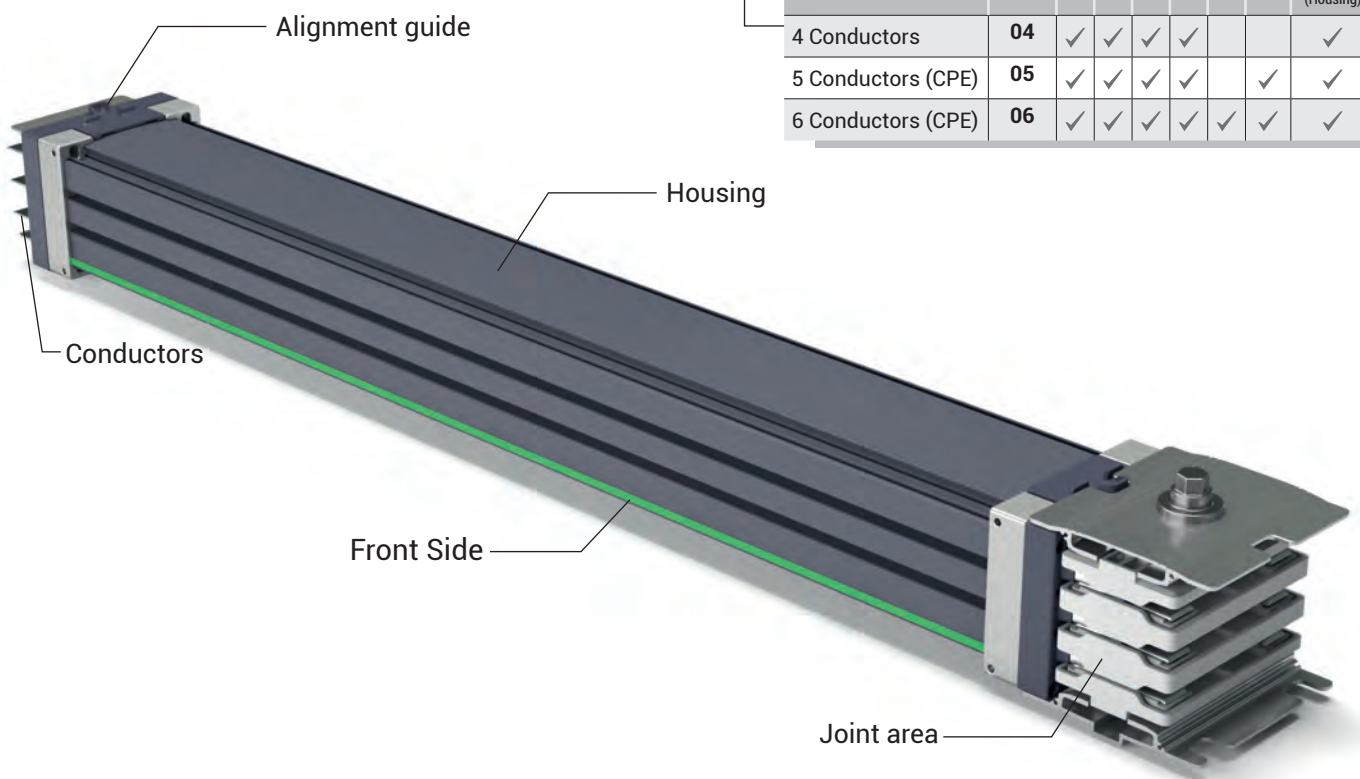
Al Conductor		Cu Conductor	
Rated Current	BUSWAY Code	Rated Current	BUSWAY Code
250	02	250	02
400	04	400	04
600	06	600	06
-	-	800	08

IP23D

Standard Length	STD
Special Length	X
Feeder Box	B10
Feeder Box	B11
End Closer	S
Left Elbow	L
Right Elbow	R
Central Feeder	TO
Left Side Feeder	TYL
Right Side Feeder	TYR

Type	
Painted	B

Conductor Configuration								
Conductors	Code	L1	L2	L3	N1	N2	CPE	PE (Housing)
4 Conductors	04	✓	✓	✓	✓			✓
5 Conductors (CPE)	05	✓	✓	✓	✓		✓	✓
6 Conductors (CPE)	06	✓	✓	✓	✓	✓	✓	✓



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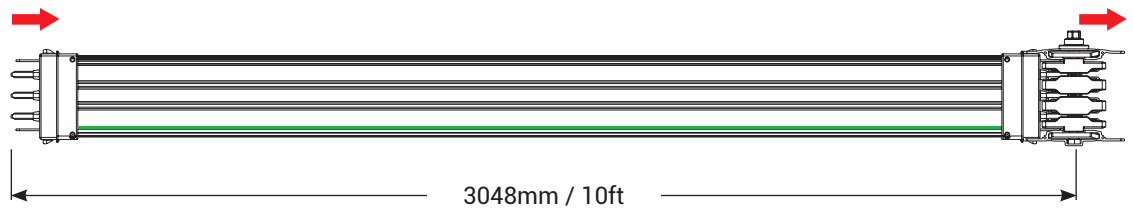


►►Standard Length

Sample Order:

250 A, Aluminium,
IP23D, 6 Conductors,
Painted

KDA-III 02206-B-STD



Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

►►Special Length

Sample Order:

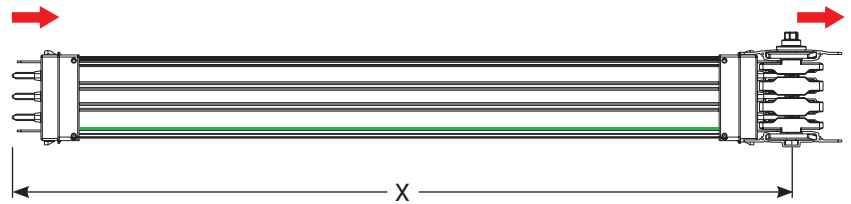
250 A, Aluminium,
IP23D, 6 Conductors,
Painted

KDA-III 02206-B-X

X=1500 mm.

Note:

Minimum Length (X)=350 mm.

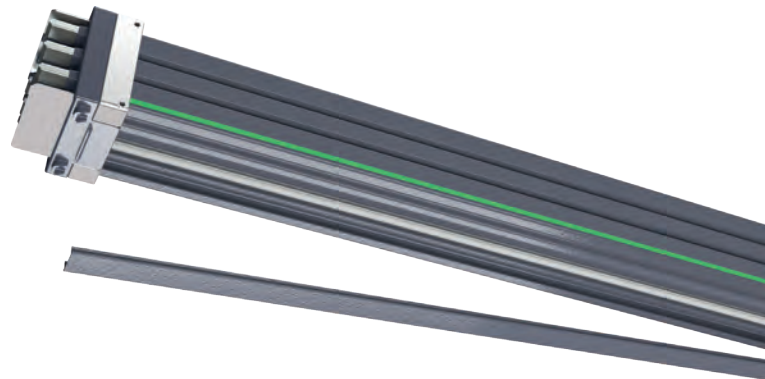
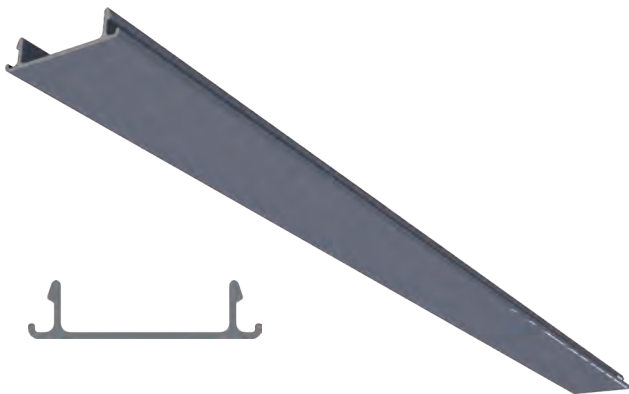


Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

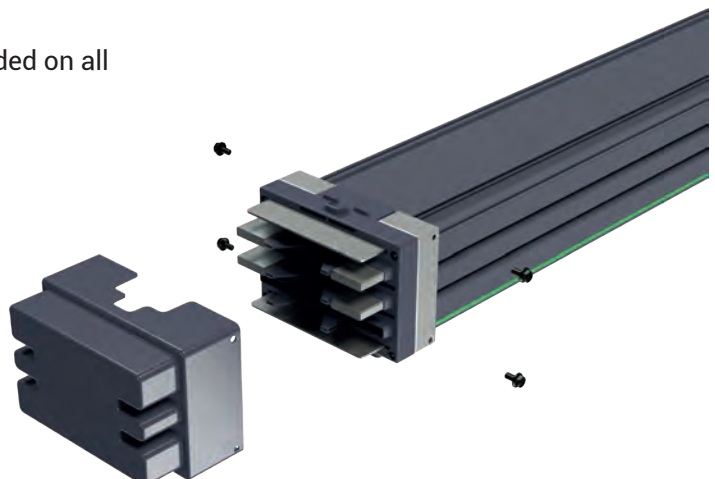
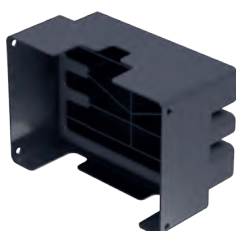
►Aluminium Closure Panel

Standard length= 2800 mm



►End Closer (S)

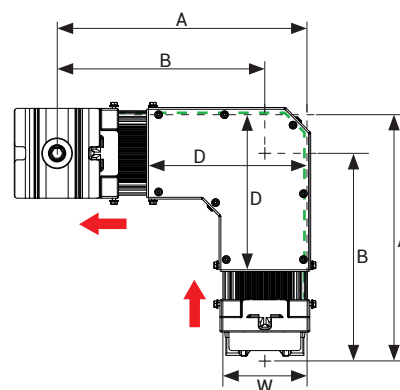
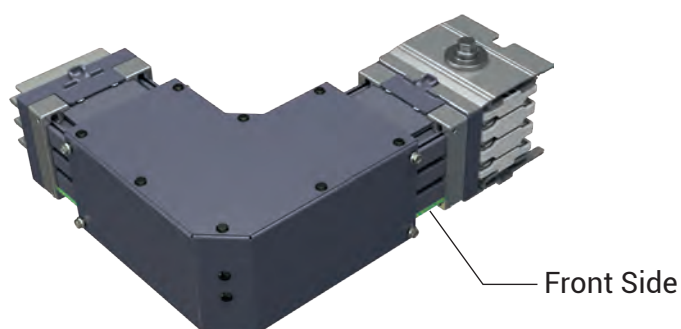
It is used to close the end of the BUSWAY run and included on all standard and special length of BUSWAYS.



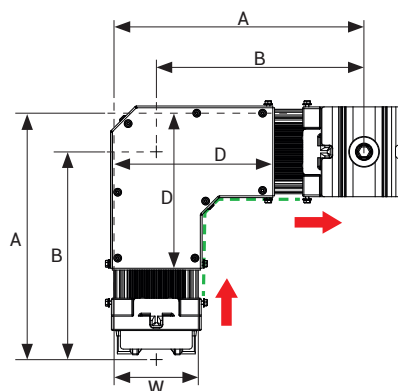
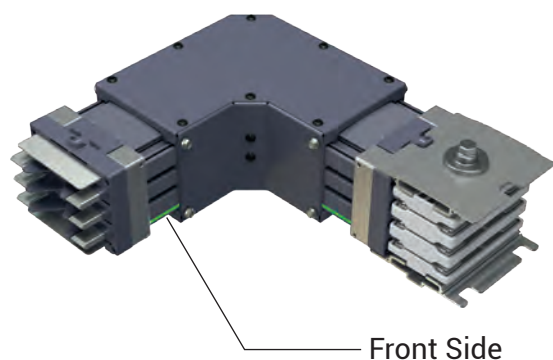
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►►Elbows

►Left Elbow (L)



►Right Elbow (R)



Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

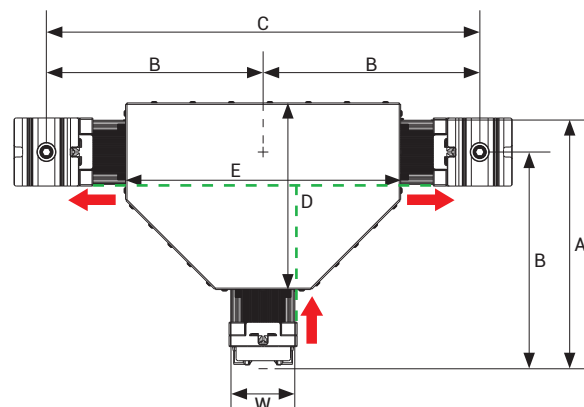
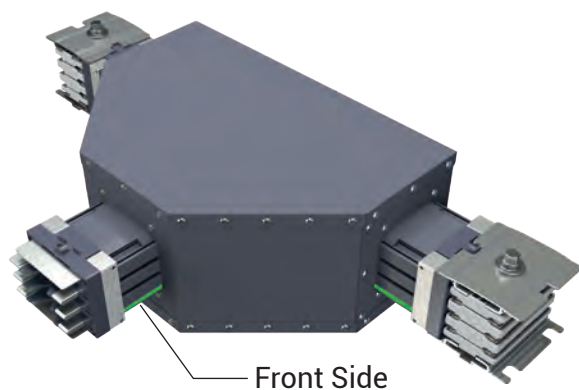
	A (mm)	B (mm)	D (mm)	W (mm)
Housing Type 1	417	347	274	140
Housing Type 2	431	347	288	168

⚠ Tap-off boxes cannot be installed on elbows.

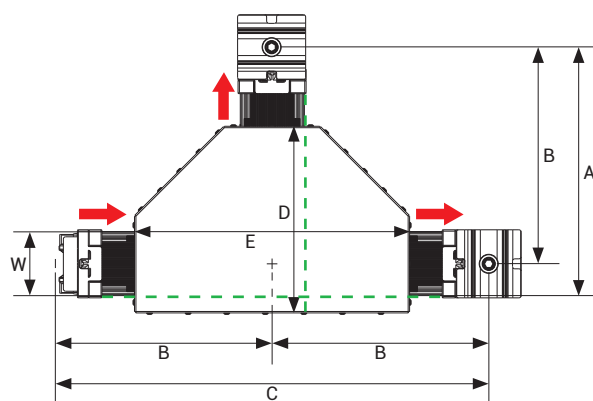
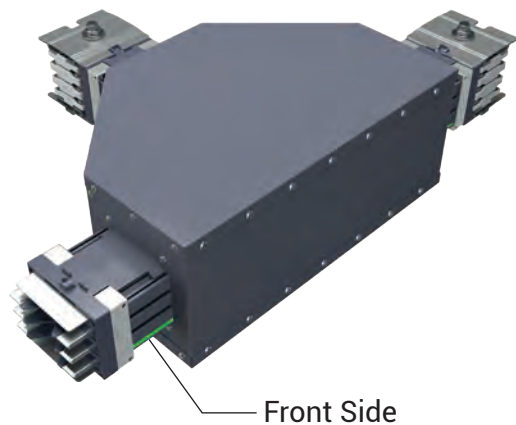
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►►Elbows

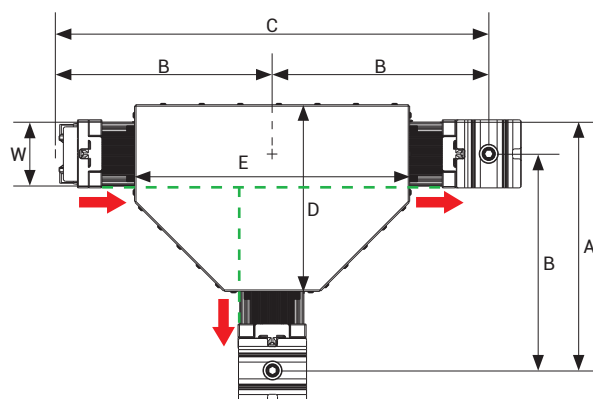
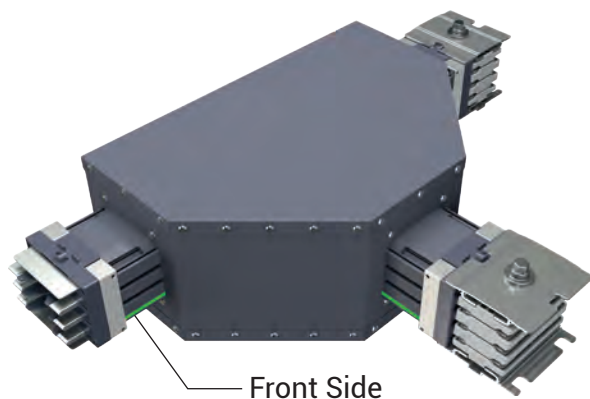
►Central Feeder (TO)



►Left Side Feeder (TYL)



►Right Side Feeder (TYR)



Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	W (mm)
Housing Type 1	548	478	956	411	606	140
Housing Type 2	562	478	956	425	606	168

⚠ Tap-off boxes cannot be installed on elbows.

E-LINE KD-III

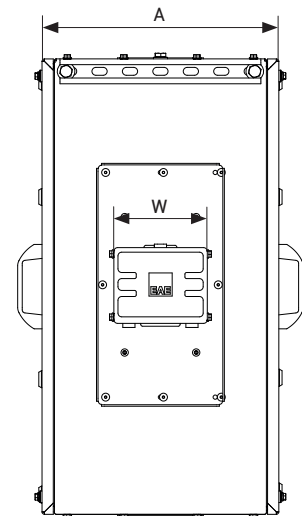
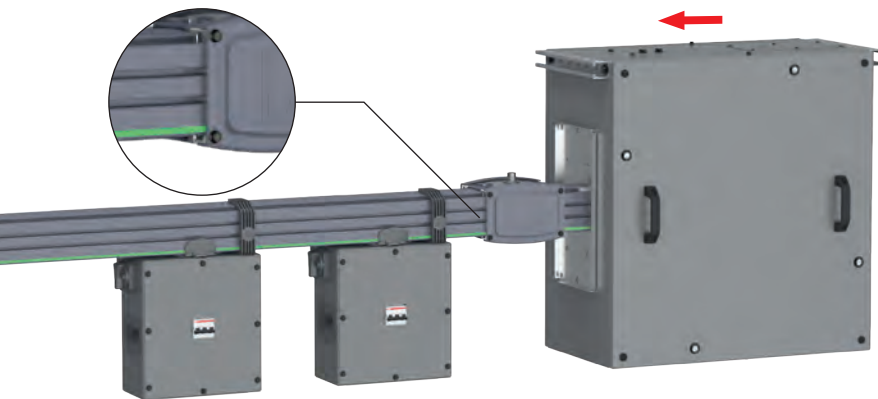
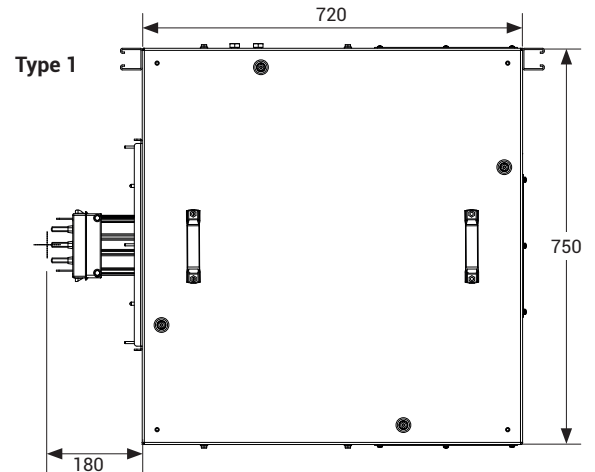


►►Feeder Boxes 250A...600A (Al), 250A...800A (Cu)

►Feeder Box (B10) (Orientation : Right → Left)



* Support the feeder units from corresponding junction points.



Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

	A (mm)	W (mm)
Housing Type 1	390	140
Housing Type 2	390	168

- Hinged and easily removable cover
- IR window (optional)
- Energy Monitoring (optional)

⚠ Tap-off boxes cannot be installed on feeder boxes.

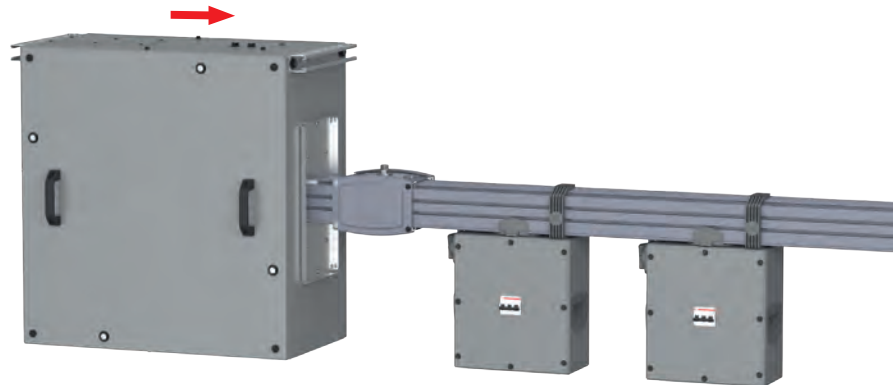
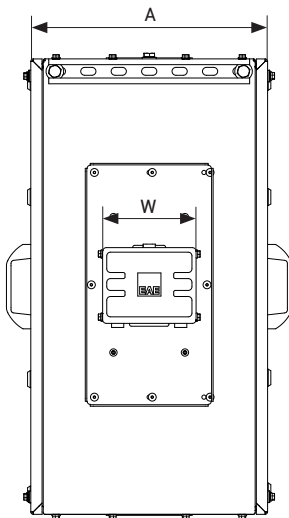
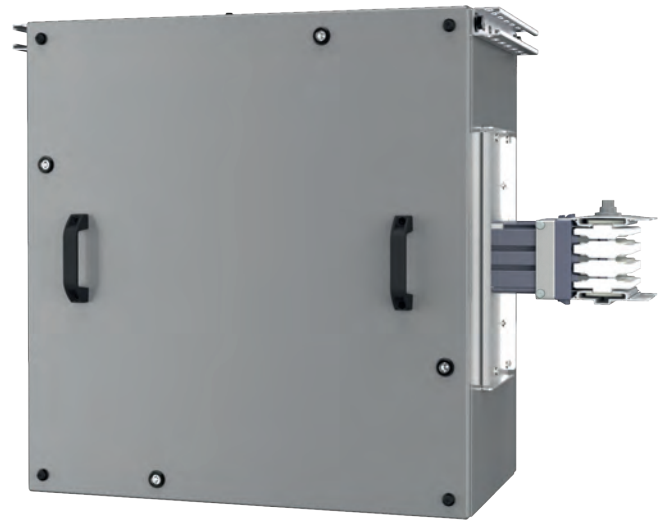
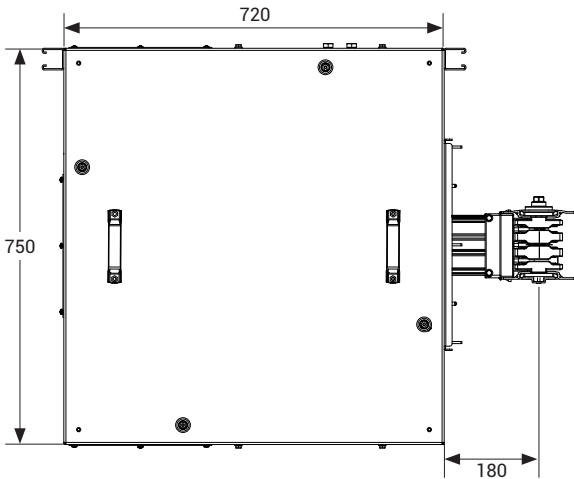
- * Please contact us for special feeder boxes.
- * All dimensions in mm.

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►►Feeder Boxes 250A...600A (Al), 250A...800A (Cu)

►Feeder Box (B11) (Orientation : Left → Right)

* Support the feeder units from corresponding junction points.



Housing Type 1: 250A-400A (Al); 250A-400A-600A (Cu)

Housing Type 2: 600A (Al), 800A (Cu)

	A (mm)	W (mm)
Housing Type 1	390	140
Housing Type 2	390	168

- Hinged and easily removable cover
- IR window (optional)
- Energy Monitoring (optional)

 Tap-off boxes cannot be installed on feeder boxes.

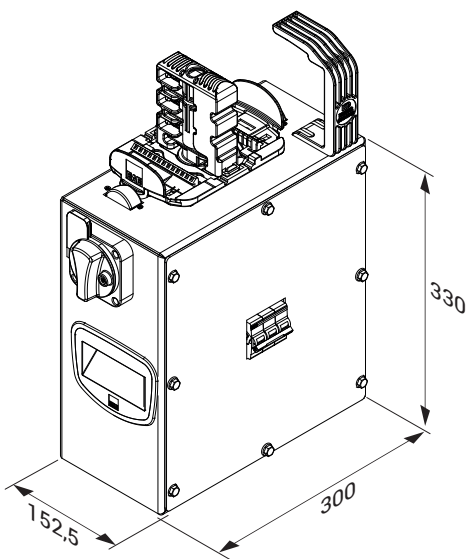
* Please contact us for special feeder boxes.

* All dimensions in mm.

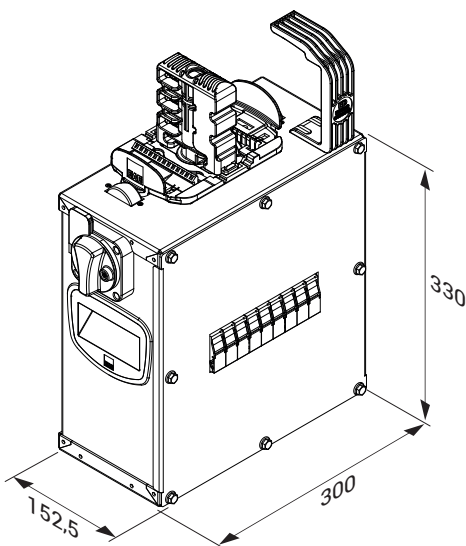
E-LINE KD-III

►► Tap-Off Boxes

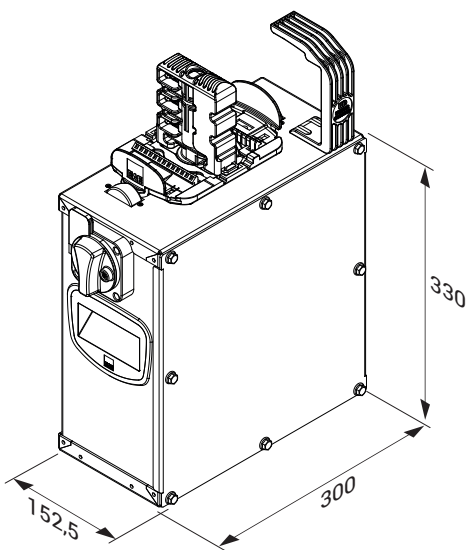
►Type 01



►Type 02



►Type 03



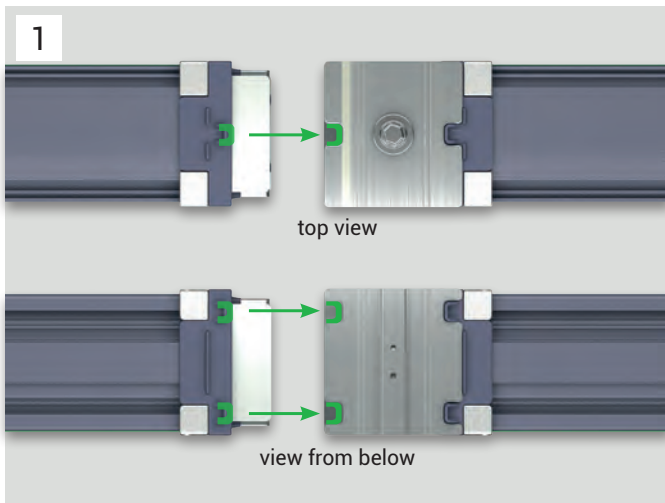
- * Please contact us for special boxes.
- * All dimensions in mm.



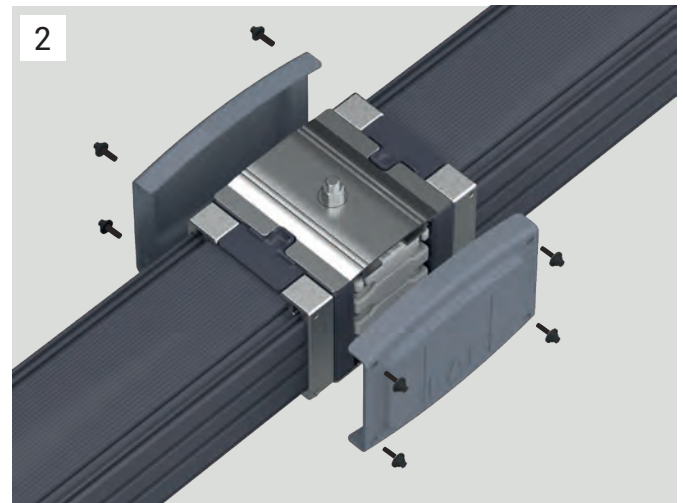
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►►Installation

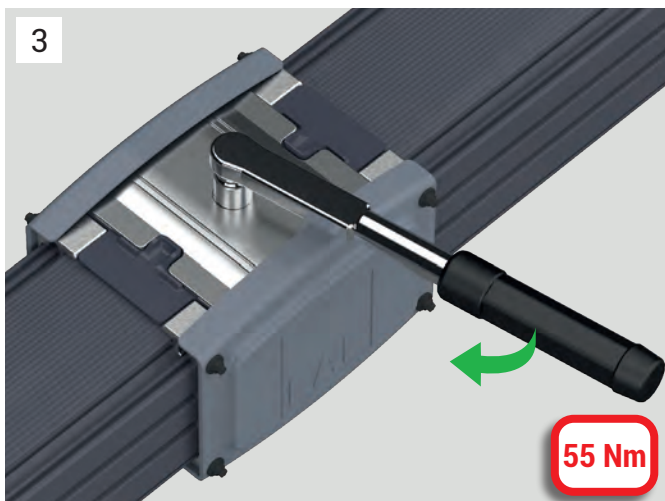
►Joint Installation



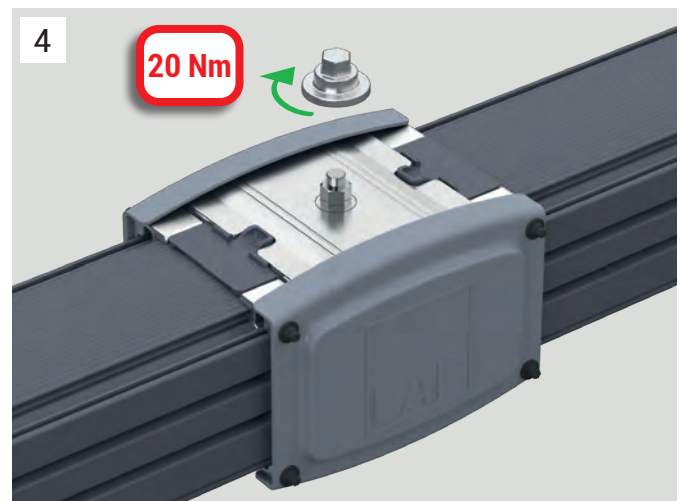
Align the BUSWAYS those with and without block joints facing each other and insert together



Assemble the joint cover and tighten the cover bolts



Adjust the torque wrench to 55 Nm and tighten the joint nut

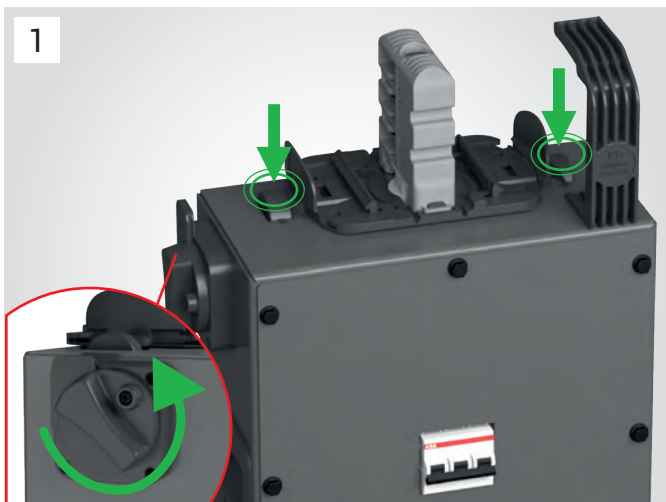


Mount the nut locking piece on the nut

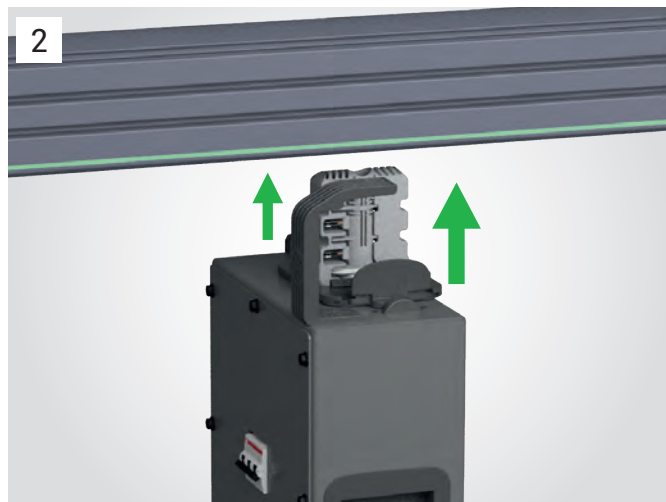
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►►Installation

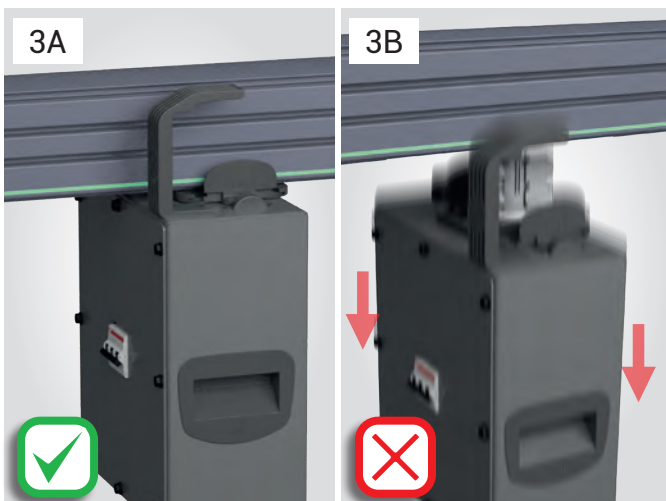
►Tap-Off Box Installation



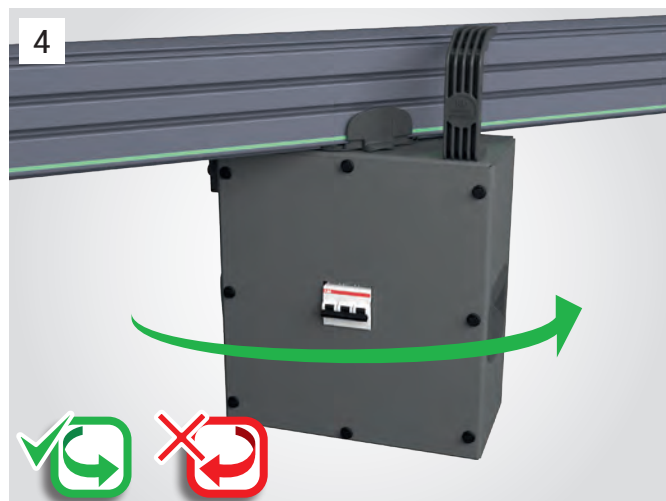
Ensure that the locking latch position is set right (as indicated), setup the installation mechanism by pressing on the claws. **If this step is not made, the box contact set may be damaged as a result of any force.**



Insert the box inside the slot of the BUSWAY by facing the mounting angle, the box label and the housing 'green' reference line on the same side



Assure that the box is inserted and locked inside the BUSWAY slot

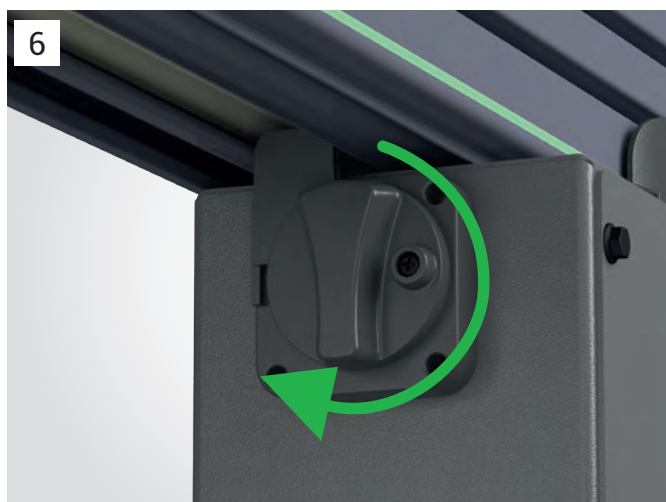


Engage the top off box by rotating in the direction of the arrow

Do not rotate the box against the direction of the arrow



Ensure that the mounting angle is correctly attached on the BUSWAY housing

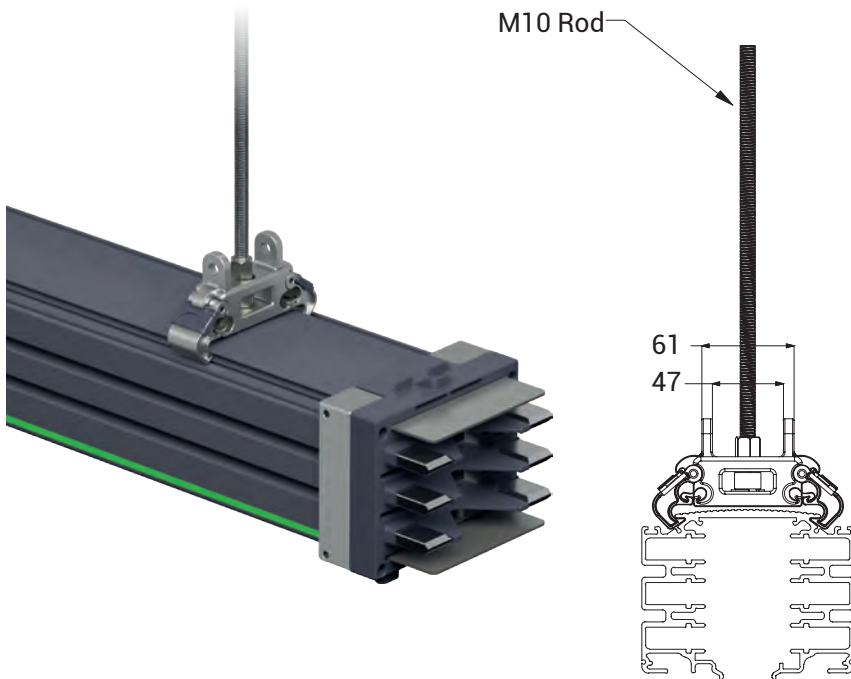


Secure the box by turning the locking latch in direction of the arrow

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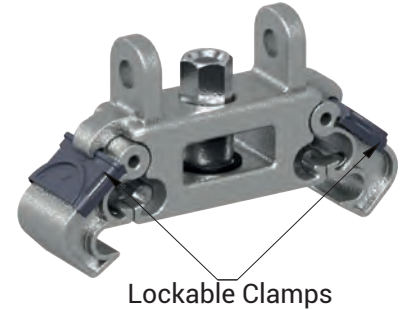
►►Fixing Elements

►Application I : Threaded Rod with Snap-In Fixing Unit

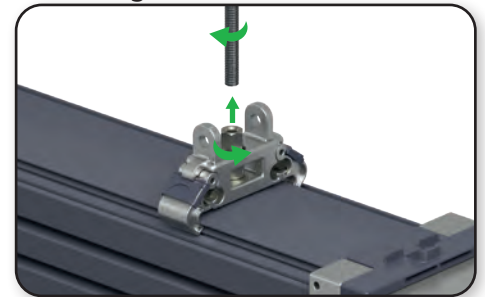


* Bolt and Nuts are included.

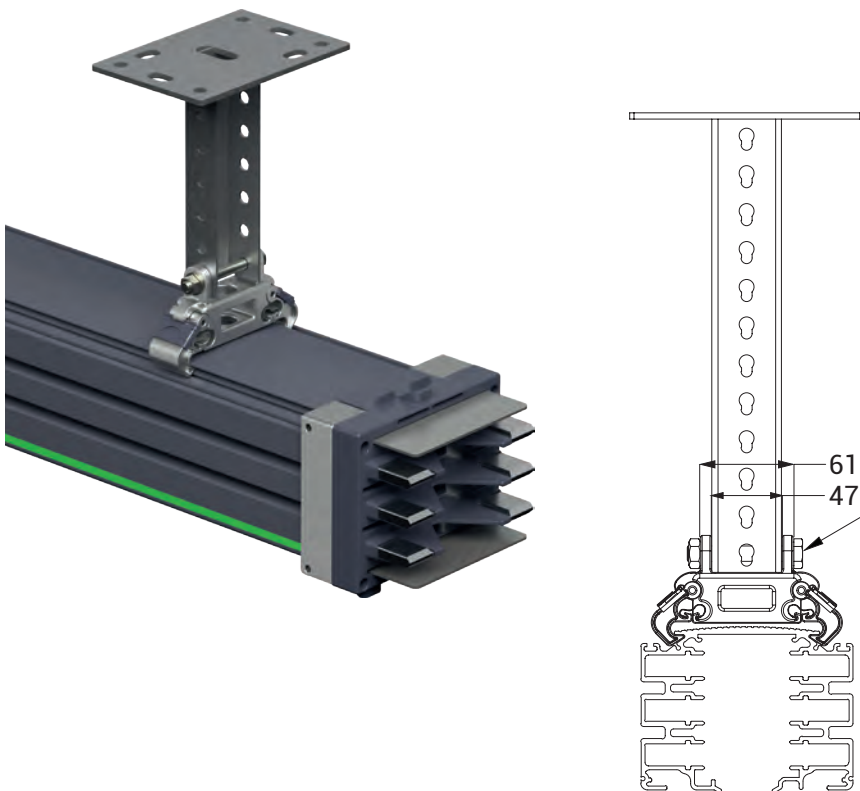
THREADED ROD SUPPORT	
KD SNAP-IN	2143683



►Fixing Unit Uninstallation

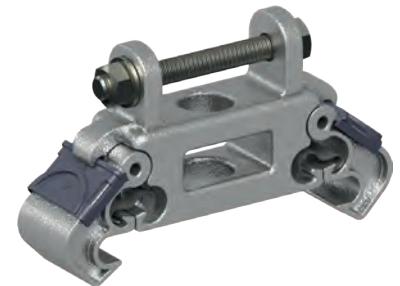


►Application II : TMP Ceiling Support with Snap-In Fixing Unit

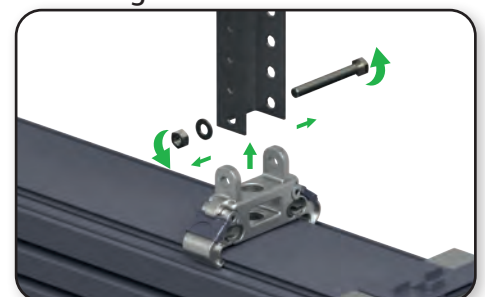


* Bolt and Nuts are included.
* All dimensions in mm.

TMP CEILING SUPPORT	
KD SNAP-IN	2143682



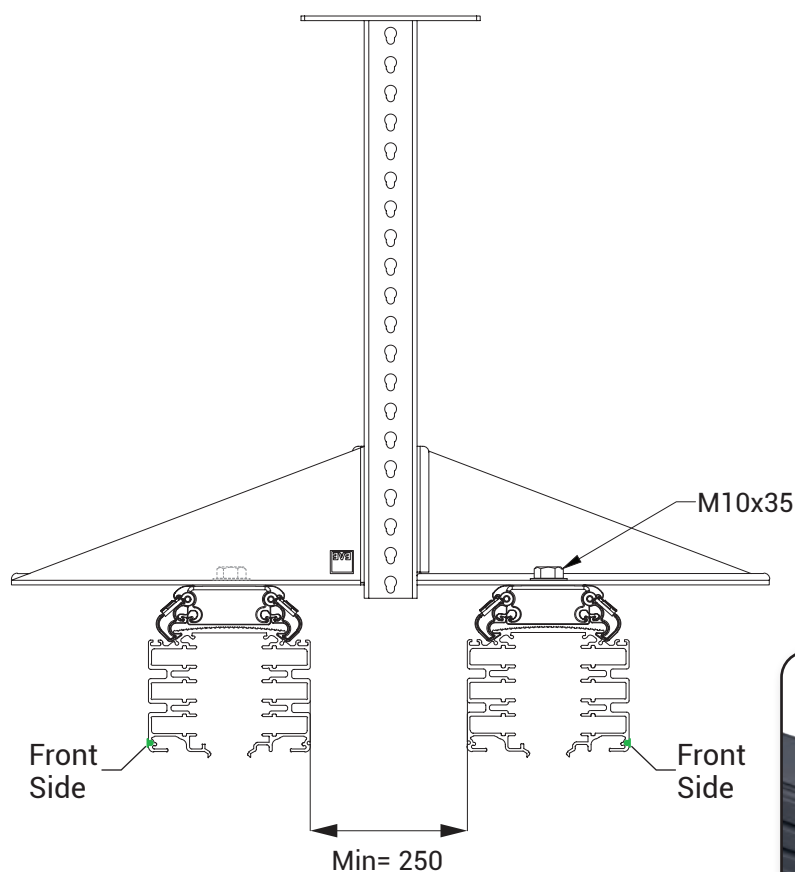
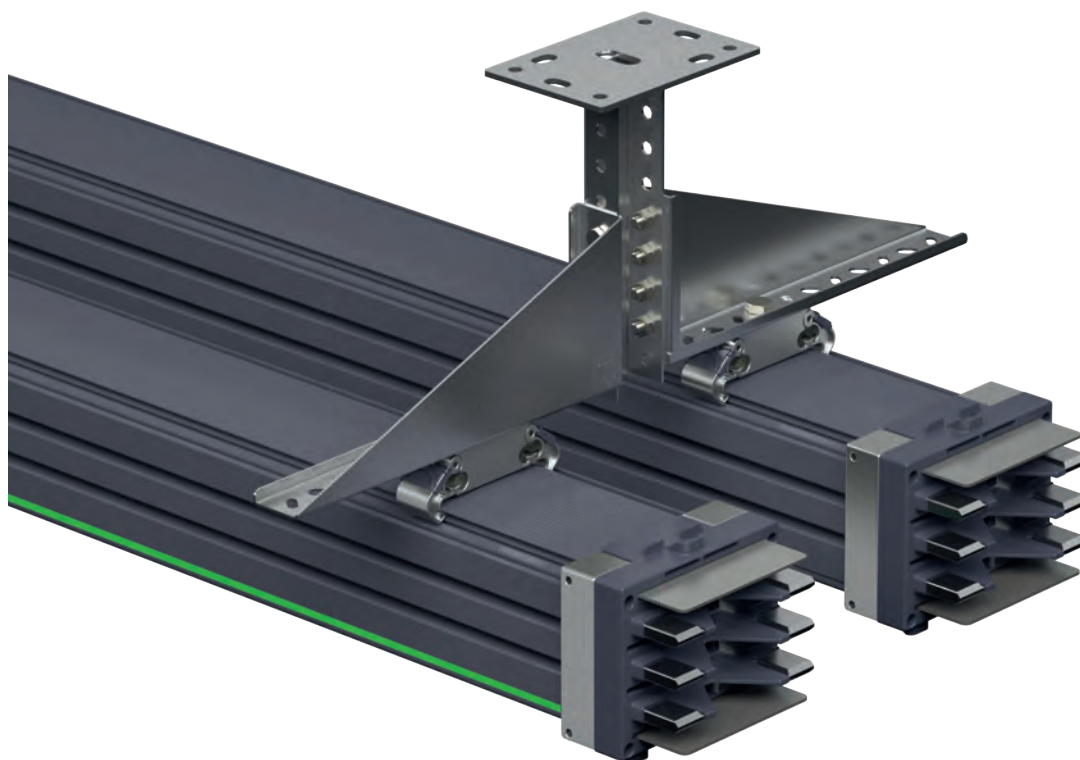
►Fixing Unit Uninstallation



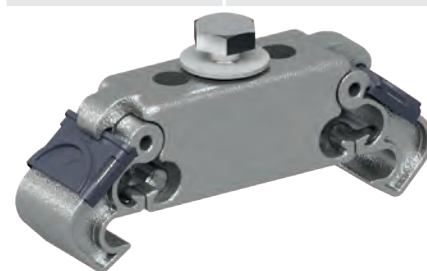
E-LINE KD-III

►►Fixing Elements

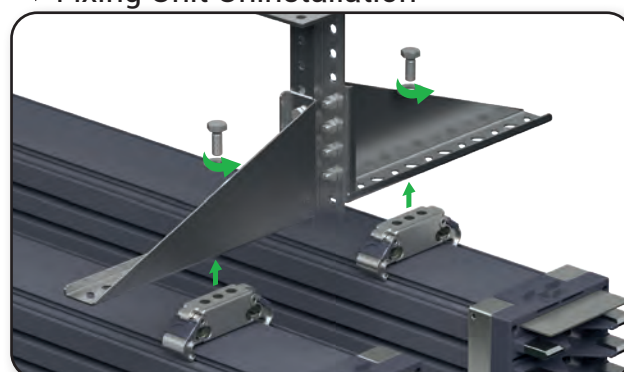
►Application III : TMP Ceiling Support and Tray Bracket with Snap-In Fixing Unit



TS TRAY SUPPORT	
KD SNAP-IN	2143684



►Fixing Unit Uninstallation



- * Bolt and Nuts are included.
- * All dimensions in mm.

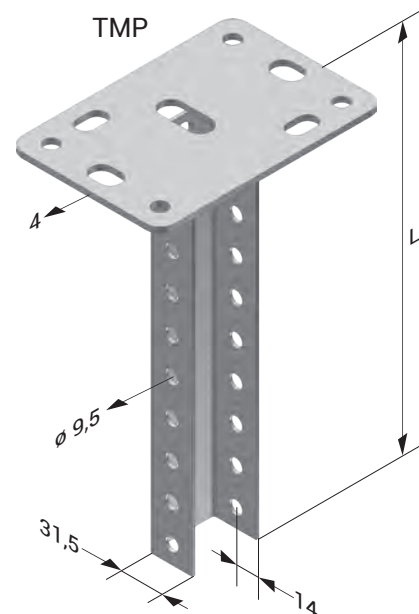
E-LINE KD-III

►►Fixing Elements

►Ceiling Mounting Fittings

Hot Dip Galvanized After Fabrication (TS EN ISO 1461)

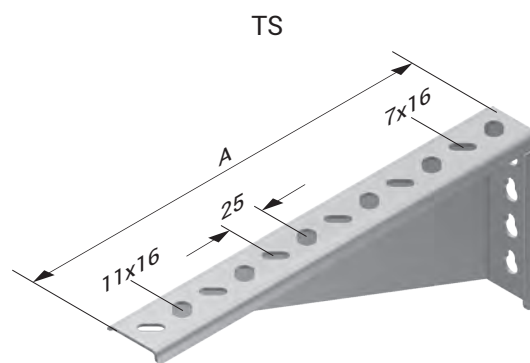
Description	L (mm)	T (mm)	Pulling Load (kg.)	Weight (kg./pc.)	Order Code	Pack (pc.)
TMP 42 Ceiling Support Unit	250	2	500	0,542	3008233	20
TMP 43 Ceiling Support Unit	500	2	500	0,949	3008234	10
TMP 44 Ceiling Support Unit	1000	2	500	2,131	3008235	-
TMP 45 Ceiling Support Unit	2000	2	500	3,791	3007952	-



►Tray Supports

Hot Dip Galvanized After Fabrication (TS EN ISO 1461)

Description	A (mm)	T (mm)	Weight (kg./pc.)	Order Code	Pack (pc.)
TS 200	205	2	0,311	3008551	10
TS 250	255	2	0,521	3008549	10
TS 300	305	2	0,607	3008547	10
TS 400	405	2	0,781	3008545	10
TS 500	505	2	0,955	3008543	10
TS 600	605	2	1,128	3005828	10



* Please contact us for special size.
* All dimensions in mm.

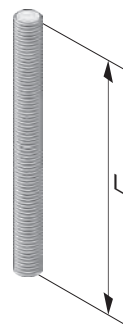
E-LINE KD-III

►► Fixing Elements

► Connection Accessories

Description	L (mm)	Weight (kg./pc.)	Order Code
Threaded Rod (M10)	500	0,245	5000037
Threaded Rod (M10)	1000	0,490	5000032
Threaded Rod (M10)	1500	0,735	5000031
Threaded Rod (M10)	2000	1,030	5000030
Threaded Rod (M10)	3000	1,520	5000029
Threaded Rod (M10) Electro Galvanized	500	0,245	5000172
Threaded Rod (M10) Electro Galvanized	1000	0,490	5000173
Threaded Rod (M10) Electro Galvanized	1500	0,735	5000174
Threaded Rod (M10) Electro Galvanized	2000	1,030	5000175
Threaded Rod (M10) Electro Galvanized	3000	1,571	5000301

M10 Rod



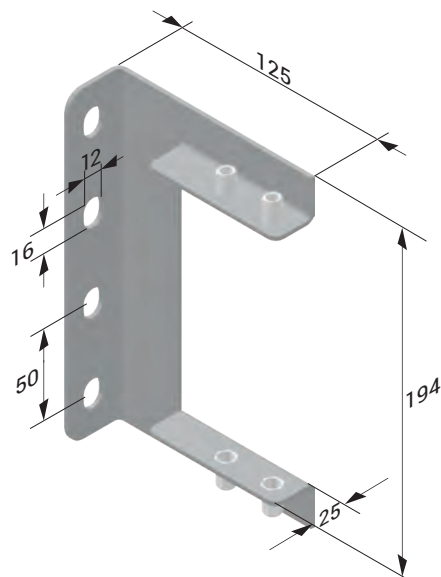
Description	Weight (kg./pc.)	Order Code
Extension Nut (M10) Lacquered	0,070	1004312

Extension Nut



Description	Order Code
Horizontal KD Hanger Element	2185387

Horizontal Hanger



- * Please contact us for special size.
- * All dimensions in mm.

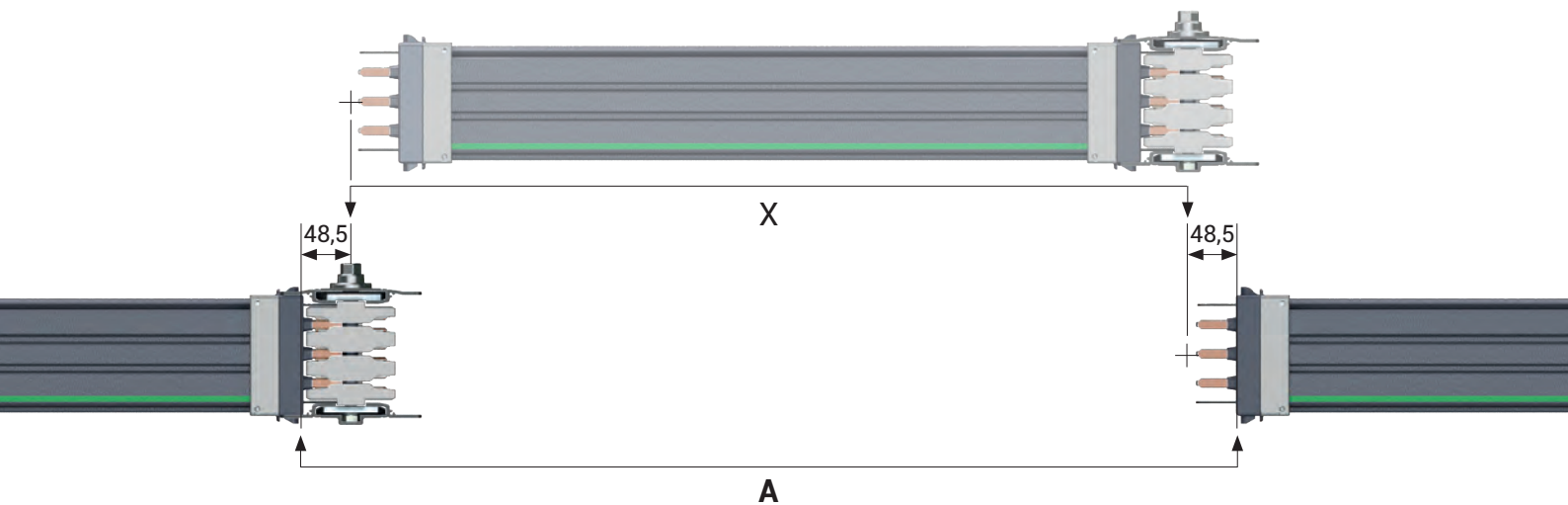
►►Measuring a Special Length

After installation of standard BUSWAY 3048mm / 10ft lengths, you will be in need of special lengths which are smaller than 3048 mm. The minimum length for these special elements can be 350 mm. Please measure the lengths of these modules as shown below.

Length A is measured between housing of 2 BUSWAYs in mm. A. The special length is calculated by deducting 97 mm from this measured length.

$X = A - 97 \text{ mm}$

X=Length of Special BUSWAY (The BUSWAY module will be manufactured as per X value.)



* All dimensions in mm.

E-LINE KD-III

►►BUSWAY Installation Applications

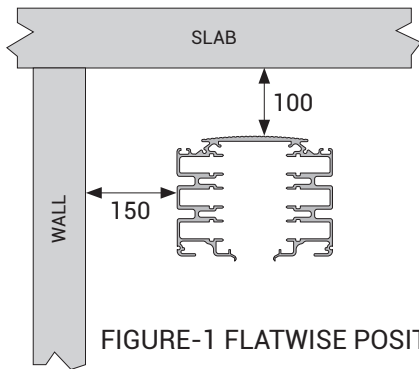


FIGURE-1 FLATWISE POSITION

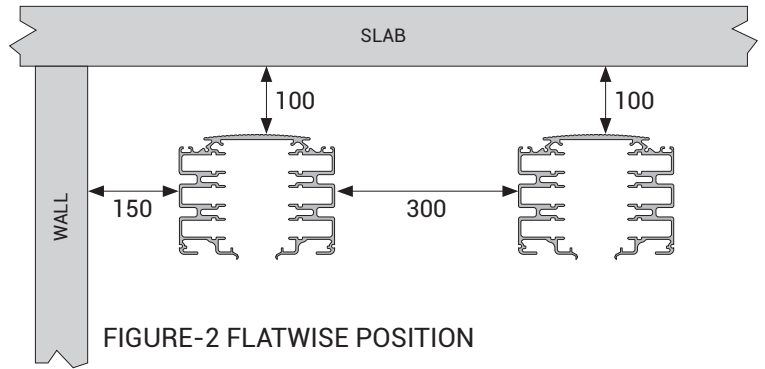


FIGURE-2 FLATWISE POSITION

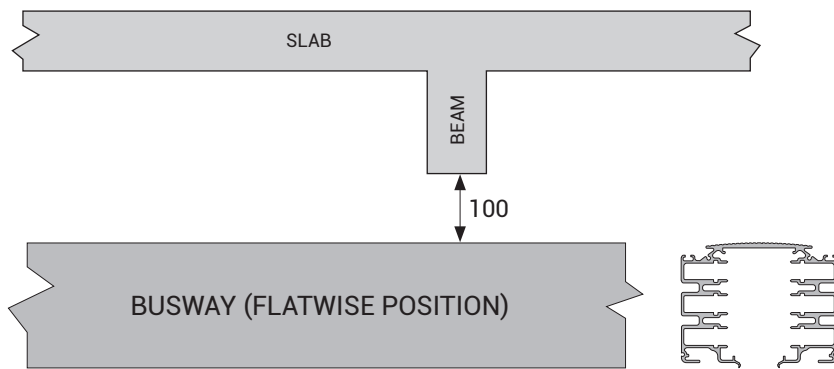


FIGURE-3 CROSSING UNDER A BEAM HORIZONTAL POSITION

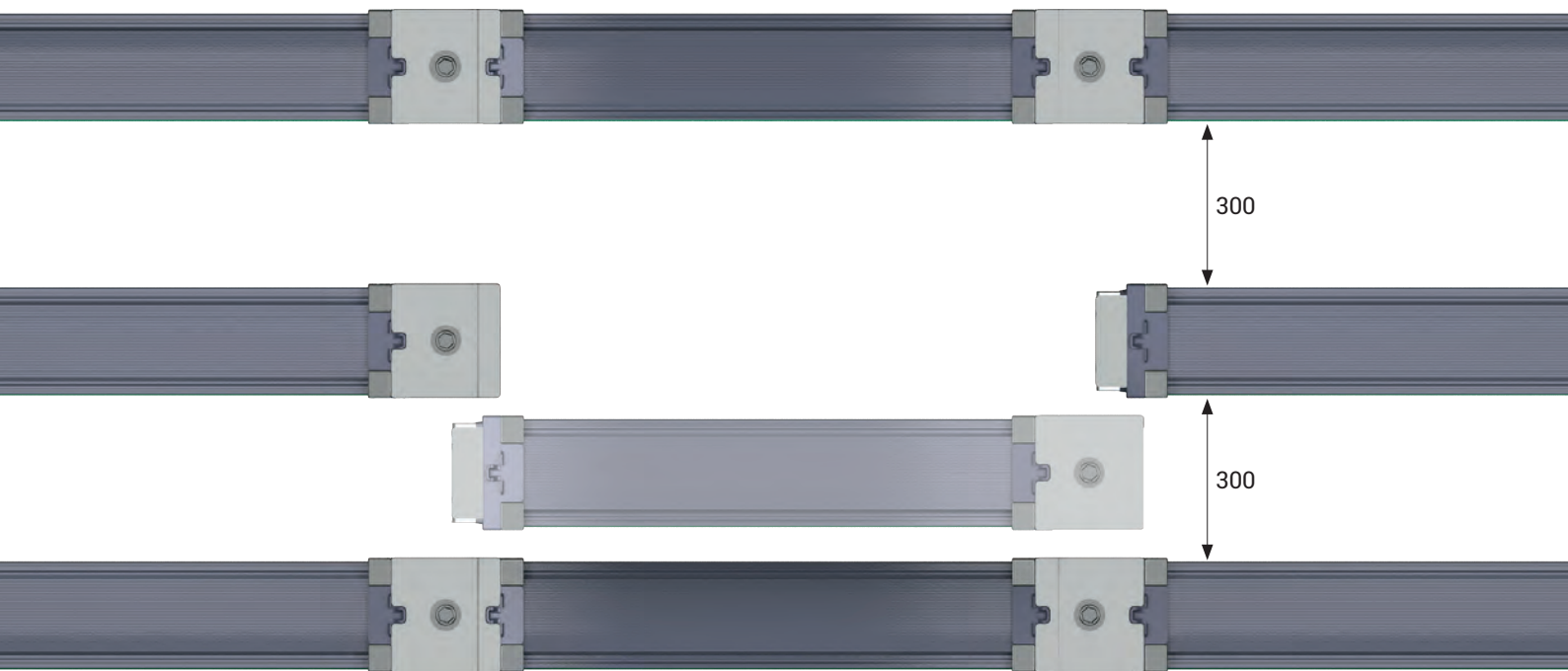


FIGURE-4 MINIMUM DISTANCE BETWEEN BUSWAY RUNS

* All dimensions in mm.



Certificate of Compliance

Certificate Number:
UL-CA-2414074-0

Report Reference:
E505448-20240613

Issue Date:
2024-06-17

Issued to:
EAE ELEKTRİK ASANSOR END INS SAN VE TİC A.Ş.
Akçaburgaz mah 3114 Sokak 10
Esenyurt İstanbul, İstanbul 34510
Turkey

This certificate confirms that representative samples of
CWFT7 - Busways and Associated Fittings Certified for Canada
See Addendum Page for Product Designation(s).

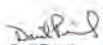
Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.
CSA C22.2 No. 27-09, 6th Ed., Issue Date: 2009-03-25, Revision Date: 2021-04-09

Additional Information:
See UL Product Q&A at <https://q.a.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.


David Pleuch
UL Mark Certification Program Manager



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2414074-0
Report reference E505448-20240613
Date 2024-06-17

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
KDX-III, KDX-III, KDX-III, followed by a five number designation, followed by additional alphanumeric designations as noted in the nomenclature.	Busways


David Pleuch
UL Mark Certification Program Manager



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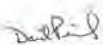
Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.
CSA C22.2 No. 27-09, 6th Ed., Issue Date: 2009-03-25, Revision Date: 2021-04-09

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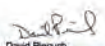
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UL Mark Certification Program Manager



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CE DECLARATION OF CONFORMITY

Product Group E-Line KD Data Rack BUSWAY

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

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.

Standard:

TS EN 61439-6

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

IEC 61439-6

Low-voltage switchgear and controlgear assemblies - Part 6: BUSWAY trunking systems (busways)

CE - Directive:

2014/35/EU "The Low Voltage Directive"

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

2011/65/EU "RoHS Directive"

Technical Document Preparation Official:

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

Mustafa AKÇELİK

Date

20.04.2024

Document Authorized Signatory

Elif Gamze KAYA OK
Deputy General Manager



250A ... 800A DATA RACK BUSWAY PRODUCT OVERVIEW (E-LINE KD-III)

1- Standards & Certification:

- BUSWAY system shall be designed and manufactured as per IEC 61439-6 standard, which requires below listed tests. Each BUSWAY rating shall have a separate type test certificate from an independent internationally accredited laboratory including below tests:
10.2- Strength of material and parts, 10.2.2- Resistance to corrosion, 10.2.3- Properties of insulating materials, 10.2.3.1- Verification of thermal stability of enclosures, 10.2.3.2- Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects, 10.2.6- Mechanical impact, 10.2.7- Marking, 10.2.101- Ability to withstand mechanical loads , 10.2.101.1- Test procedure for a straight BUSWAY trunking unit, 10.2.101.2- Test procedure for a joint, 10.2.101.3- Resistance of the enclosure to crushing, 10.3- Degree of protection of assembly, 10.4- Clearances and creepage distances, 10.5-Protection against electric shock and integrity of protective circuits, 10.5.2- Effective earth continuity between the exposed conductive parts of the assembly and the protective circuit, 10.5.3- Short-circuit withstand strength of the protective circuit, 10.9- Dielectric properties, 10.9.2- Power-frequency withstand voltage, 10.9.3- Impulse withstand voltage, 10.10- Verification of temperature rise, 10.11- Short- circuit withstand strength, Annex BB Phase conductor characteristics, Annex CC Fault-loop zero-sequences impedances, Annex DD Fault-loop resistances and reactances.
- BUSWAY system shall have CE marking.
- The manufacturer of BUSWAY system shall have ISO 9001 and ISO 14001 certification.
- Each product shall have a "Type Label" including coding system, which identifies the brand, type of the unit, number of conductors and electrical details. The same coding shall be on the related certificate and catalogue.

2- Electrical Characteristics

- BUSWAY systems nominal insulation voltage shall be 600 V.

2.1- Housing

- Conductors shall be packed and placed into the housing.
- Housing shall be made of thermal processed, extruded aluminium, RAL7012-Electrostatic painted.

2.2- Conductors

- Aluminium or Copper conductors overall isolated and tin plated.
- Aluminium conductors between 250A – 600A.
- Copper conductors between 250A –800A.
- BUSWAY system shall have the following number of conductors and wire configuration;
- 6 Conductors: (6 full size conductors CPE (100% earth conductor + double neutral + housing)),
- Phase conductors and neutral conductor shall have the same cross-section and they shall be insulated.
- Aluminium conductors shall be of EC grade aluminium. Minimum conductivity shall be $34\text{m/mm}^2 \cdot \Omega$.
- Copper conductors shall be minimum 99,95% electrolytic copper. Minimum conductivity shall be $56\text{m/mm}^2 \cdot \Omega$.

2.3- Insulation

- Insulation system shall be suitable for 1.000V continuous operation. Conductor size shall be designed so that temperature rise on the conductors shall not exceed 100°C degree at nominal current, which helps to global heating problem. With this reason, insulation class shall be selected as "B class".

2.4-Joint Structure

- Electrical and mechanical connection shall be made by placing conductor joints into the joint blocks of the connected conductors and followed by tightening and fastening of the joint bolts.

2.5-Protection

- Protection degree of the housing and joints shall be IP23D.

2.6-Acessories

- BUSWAY system shall have all necessary accessories (elbows, panel-transformer connections, etc.) Manufacturer shall supply special dimensioned units in short time, if the project conditions requires

3-Tap Off Boxes

- The Tap off boxes shall be Plug-nPlay type.
- Plug-n-Play tap off boxes shall be suitable to install or remove from BUSWAYS without switching off the power on the BUSWAY.
- Plug-n-Play tap off boxes shall be suitable to install or remove anywhere alongside the BUSWAY.
- The Tap-Off Box contacts shall be protected with a cover
- The Tap-Off contacts shall be heat cycle tested
- Contacts of plug-in tap off box shall be silver plated.
- The special locking mechanism of the Tap-Off Boxes shall ensure to carry the weight of the plug-in box and cables by the BUSWAY housing
- While inserting the contacts of plug-in tap off box, earth contact shall make the first touch. While removing, it shall be disconnected last.
- Tap off boxes shall be manufactured of epoxy painted aluminium.
- The Tap-Off Boxes shall be equipped with a safe alignment mechanism to ensure correct installation and operation

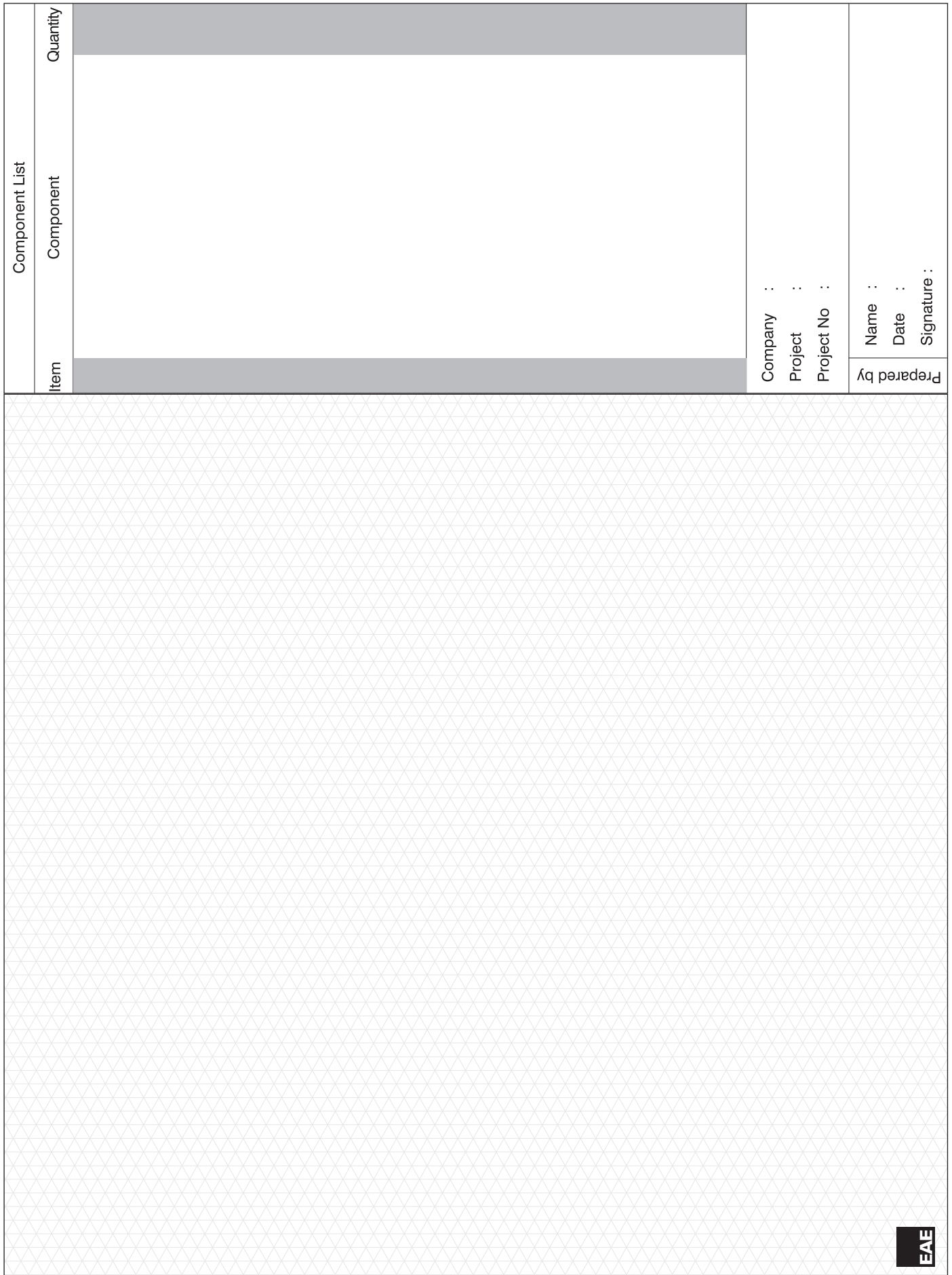
4-BUSWAY Fixing&Mounting System

- The BUSWAYS shall be easily installed and positioned through their entire lengths with the "Snap-In Fixing Units" by inserting into the guiding slots on top of the housing.
- To ensure flexible positioning of the BUSWAYS, each single BUSWAY length shall easily slide independently on the "Snap-In Fixing Units" through the guiding slots.
- To maintain the mounting security, the "Snap-In Fixing Unit" clamps shall be lockable.
- For various mounting practices the "Snap-In Fixing Units" shall be available with threaded rod, ceiling support and/or with tray brackets options

5-Installation and Commisioning

- BUSWAY systems shall be installed as per Single-Line drawings respect to required ampere rates and manufacturer installation guide (torque values, lockers, etc.). Electrical installer shall run an insulation test after installation, according to manufacturer's test procedures. The results of the test shall be reported to the manufacturer and minimum insulation value shall be 1 Mohms.

►►Project Design Form



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PRODUCT TYPES

BUSWAY ENERGY DISTRIBUTION SYSTEMS



CABLE TRAYS



TROLLEY BUSWAY ENERGY DISTRIBUTION SYSTEMS



INDOOR SOLUTIONS



SUPPORT SYSTEMS



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