



Holders

SIC Metallurg LLC manufactures electrical products under the **METAENERGY** brand. Combining the experience of Russian and foreign researchers in the field of energy and electrical engineering, we create a convenient, affordable and high-quality product.

Every single one of our products is aimed at introducing new efficient technologies in the energy sector and maintaining an economically viable development concept for our partners. From the very beginning of product design our specialists have been pursuing the idea of manufacturing high-quality products.

We seek the close contact with consumers of our products and that allows us to improve the products we have already created and fulfill the our partners' expectations in future products. In such behaviour we see the realization of one of the most important aspirations of our company — sustainable development.

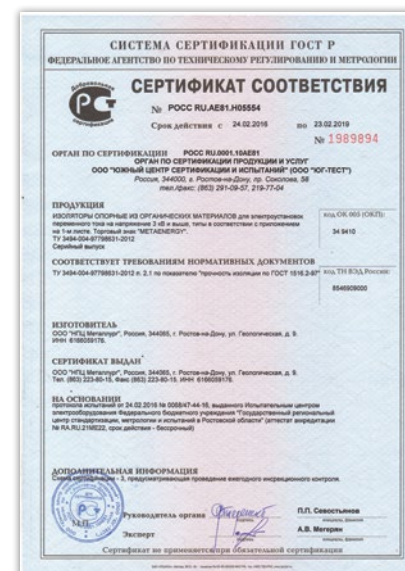
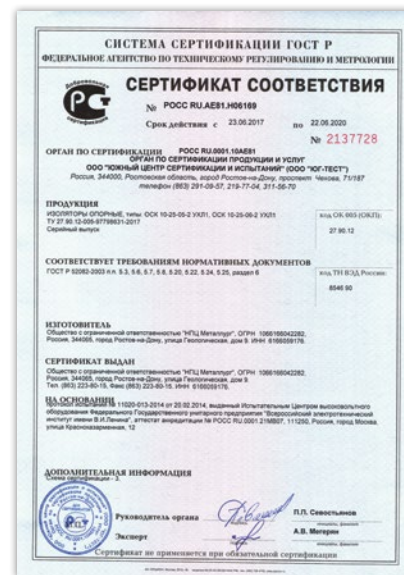
Continuous development, innovation, and economic growth are possible only when building long-term and trusting relationships. This is a guarantee of upholding mutual interests. This is the key to focusing on categories such as **quality, timeliness, consistency, and thrift**. We are open to dialogue, ready to grow with you and develop new, high-end products for your company.

METAENERGY products are modern Russian production with global level of quality. This is what we focus on and pursue to contribute to build confidence in Russian manufacturers, both in Russia and abroad. We are able to work great on both delivery timethe and products quality, packaging, competence and also on responsiveness of our specialists. We will be glad if you decide to try this yourself. Now and always, we will maintain and improve this level.

The company has implemented and certified a quality management system in accordance with the requirements of GOST R ISO 9001-2015.

In 2021 we obtained a license from the Federal Service for Environmental, Technological and Nuclear Supervision to have the right to manufacture equipment for nuclear plants.

All manufactured products are certified and have every necessary permit confirming their compliance with the established requirements.



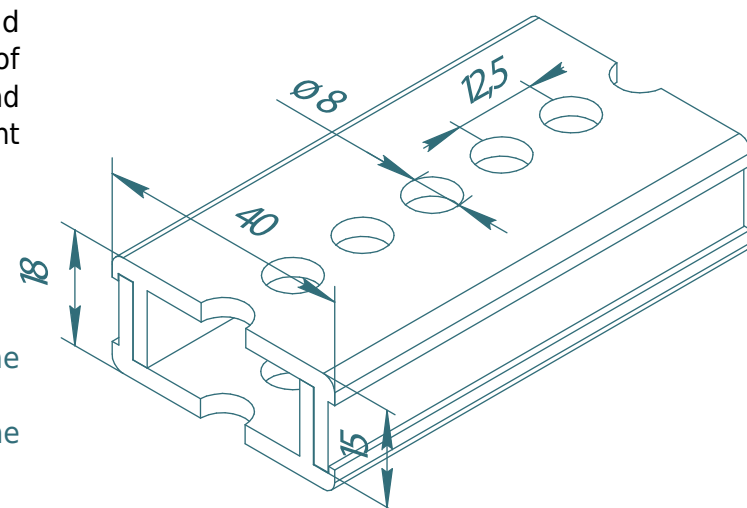
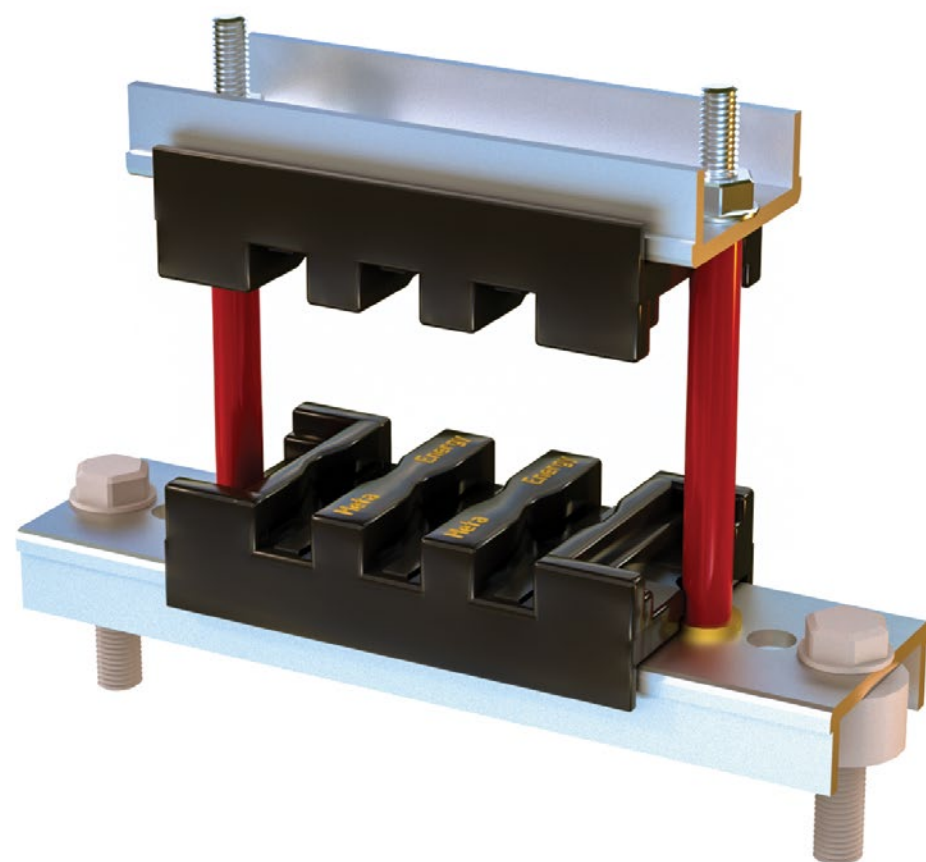
Busbar mounting systems are designed to fix conductors inside panel equipment (copper and aluminum buses, 5 and 10 mm thick). The variety of available kits provides convenience in the design and installation of equipment. It is easy to choose the right kit in the following sequence:

1. Determine the number of poles (1-3-4)
2. Choose the right types of insulators
 - a. What busbar is used (5mm or 10mm)
 - b. The number of section busbars and the distance between them
3. Select the desired profile length (write out the article)

To enhance the bearing capacity of the busbar holder, it is possible to enhance the strength of the profile with an additional element.

The profiles are nested inside each other. This is necessary in the case of mounting large cross-section busbars for currents from 2500 A (depending on the cabinet design).

- ▶ The aluminum profile is made of a structural grade of metal.
- ▶ The perforation pitch is 12.5 mm;
- ▶ Profile width 40mm;
- ▶ Holes diameter 8mm.



▲ (70100700_2100)
Aluminum profile with perforation,
length 2100mm

Characteristics

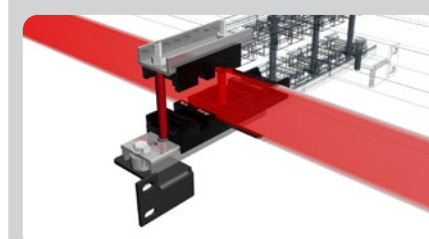
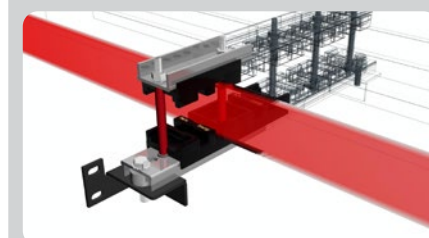
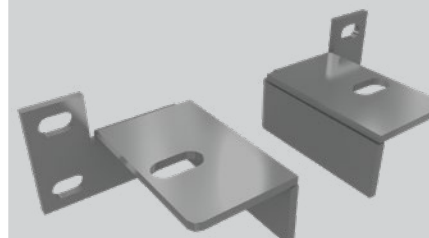
- For indoor installation in electrical cabinets.
- Current strength up to 7500A.
- Adjustable phase spacing (12.5mm pitch).
- Seven types of busbar holders.
- Busbar width - 30mm to 140mm.
- Operating temperature range: -40°C to +130°C.
- Simple mounting, small number of elements:
 - ▶ Aluminum perforated profile
 - ▶ Insulator with convenient latches
 - ▶ Fasteners are supplied as a set
- Possibility of supplying complete sets and separate holder elements.

Glass-filled polyamide does not contain phenolic resins.
Internal pores, shells and any heterogeneity of the material are excluded.
Modern lightweight materials.
Each element of the system is perfectly matched according to its function.

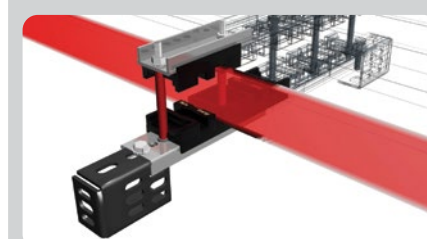
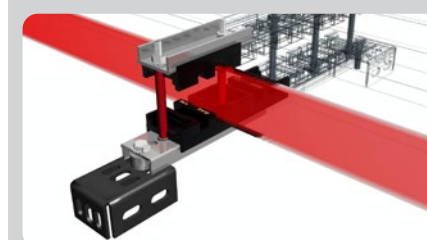
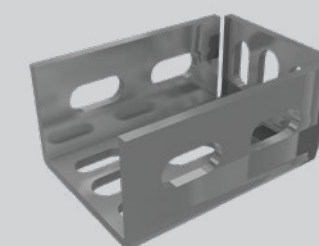
Brackets for mounting busbar holders

(50109903) - right
(50109904) - left
(50109905) - set

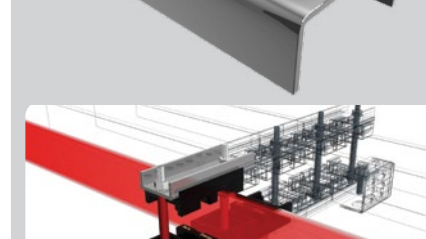
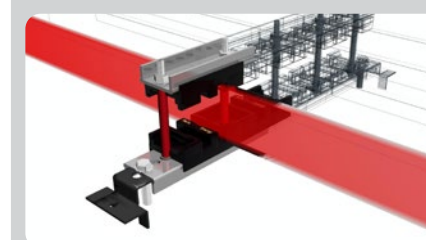
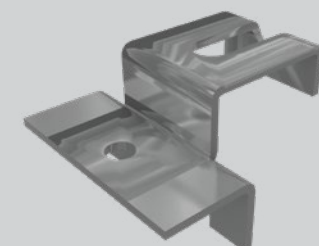
L-shaped mounting bracket



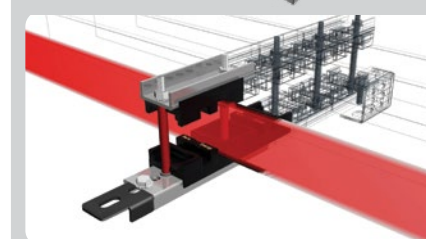
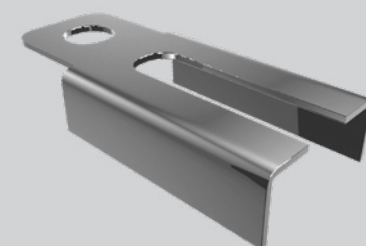
(50109900)
Perforated
box-shaped bracket



(50109906)
T-shaped
mounting bracket



(50109907)
Straight
mounting bracket



▲ Ways to attach holders using brackets

There are 7 types of polymer insulators reinforced with glass fiber:

1. For 10mm busbars, 4 way, length 100mm; between 10mm busbars
2. For 10mm busbars, 3 way, length 87mm; between 10mm busbars
3. For 10mm busbars, 2 way, length 75mm; between 10mm busbars
4. For 10mm busbars, 1 way, length 50mm
5. For 5mm busbars, 4 way, length 87mm; between 10mm busbars
6. For 5mm busbars, 4 way, length 75mm; between 5mm busbars
7. For 5mm busbars, 2 way, length 50mm; between 5mm busbars

Insulators comply with GOST IEC 61439-1-2013.

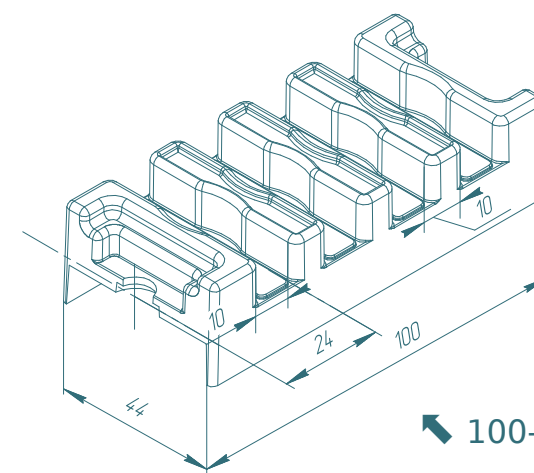
The material has a PV-0 category of resistance to burning according to GOST 28157-2018 and V0 according to UL 94 standard.

When tested with hot wire for flammability, the material can withstand a temperature of 960 ° C.

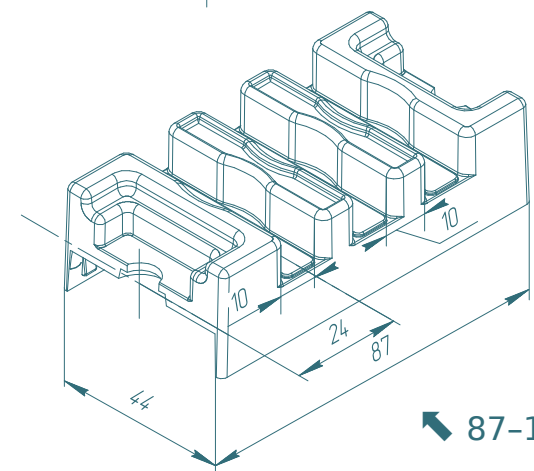
- The dielectric strength of insulators is more than 20 kV/mm.
- The material is flame-resistant.
- Different layout of insulators in sets is possible in agreement with the developers of the panel equipment.

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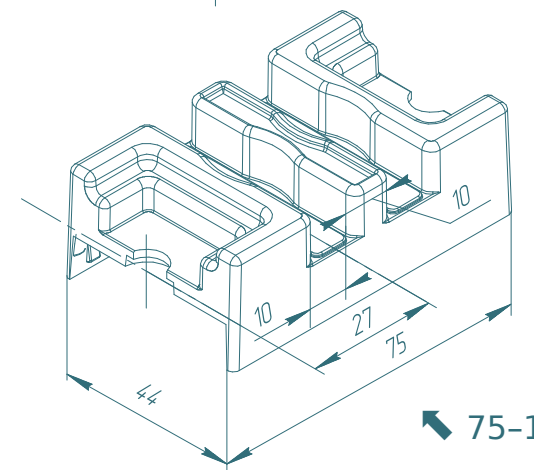
p. 8	Mounting elements
p. 9	Mounting system assembly diagram
p. 10	Single-pole busbar holders, type XXX-10-X
p. 11	Single-pole busbar holders, type XXX-5-X
p. 12	Three-pole busbar holders, paired mounting, type XXX-10-X
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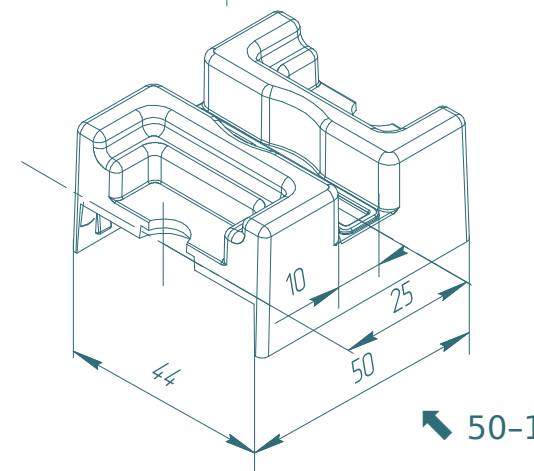
100-10-4 insulator, (70100800)



87-10-3 insulator, (70100701)

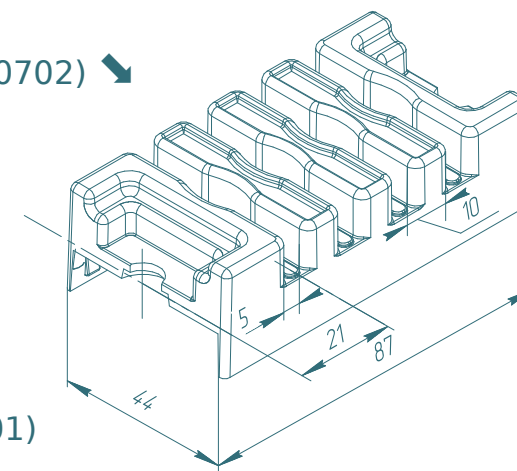


75-10-2 insulator, (70100798)

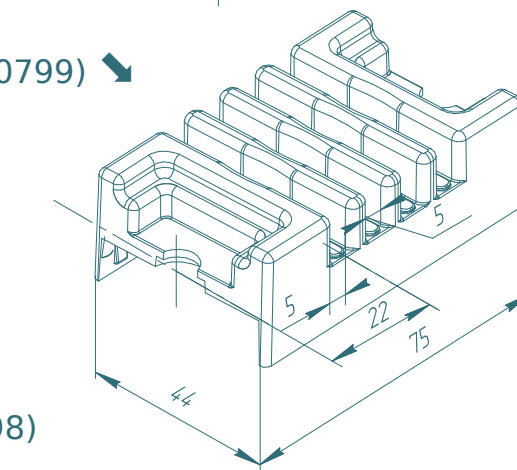


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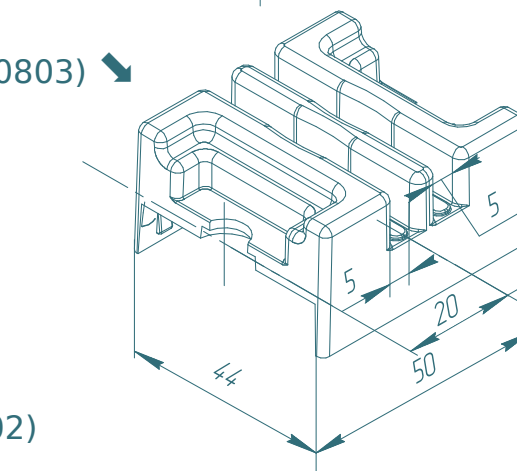
87-5-4 insulator, (70100702)

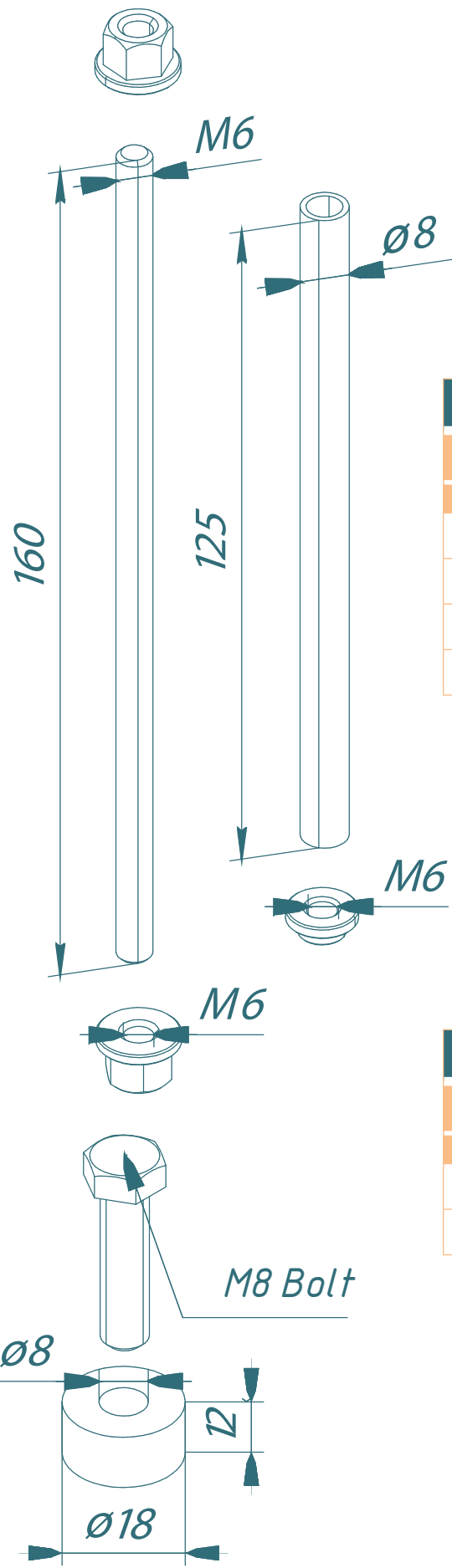


75-5-4 insulator, (70100799)



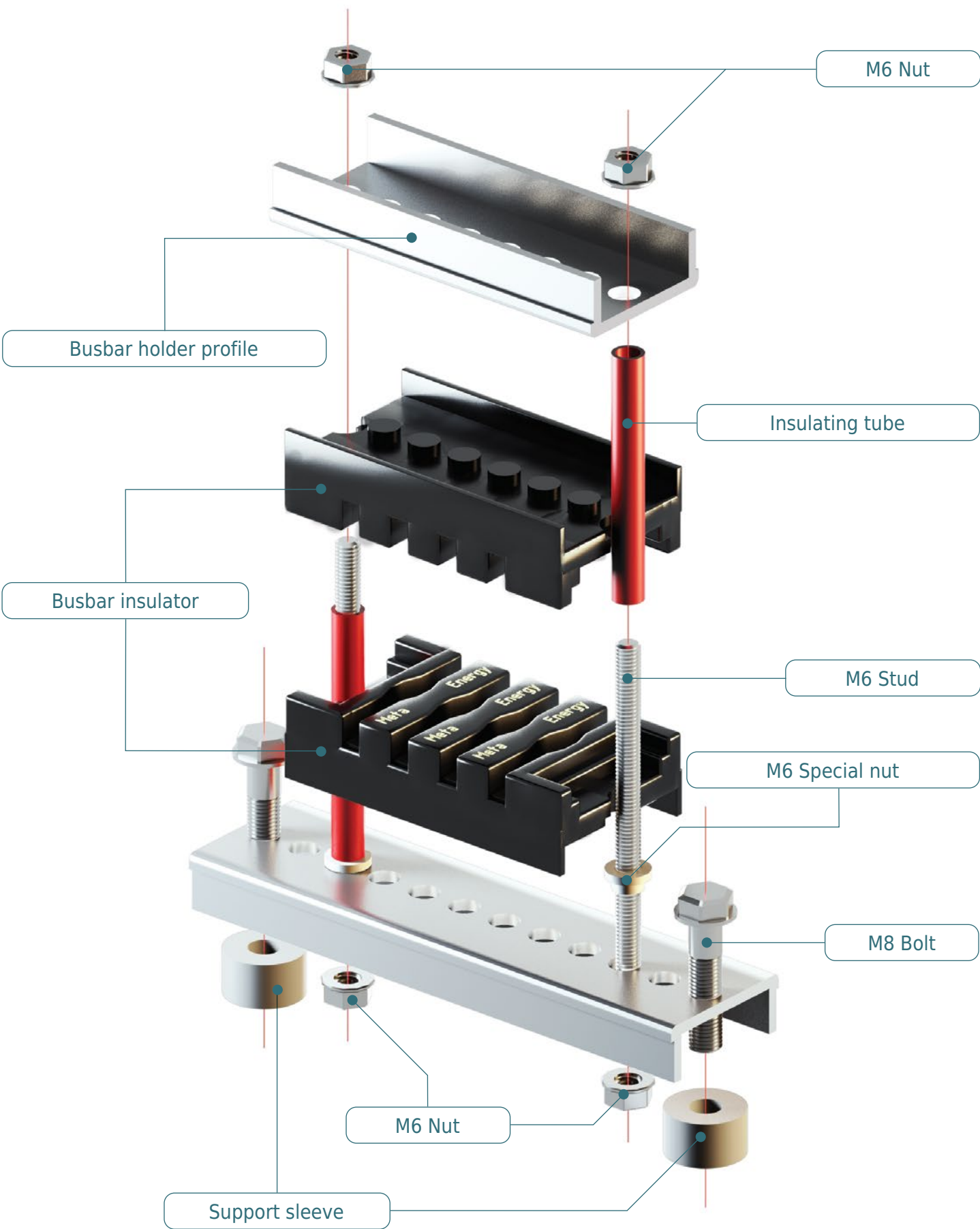
50-5-2 insulator, (70100803)

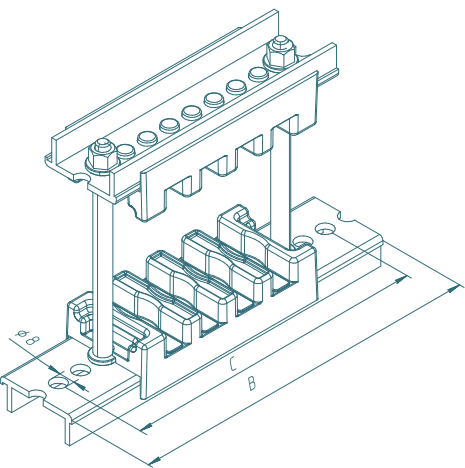




70900002 Insulator mounting set		
Set contents		
Article number	Name	Q-ty
02023005	M6 Flange Nut DIN	1 pcs
02020003	M6 Round Steel Nut	1 pcs
02110003	M6 Threaded Stud 160mm length	1 pcs
03020001_0125	8x1 Insulating Tube 125mm length	1 pcs

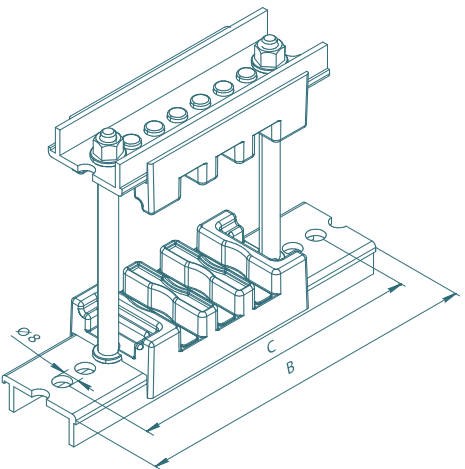
70900001 Profile mounting set		
Set contents		
Article number	Name	Q-ty
02022010	M8x35 Bolt With Flange DIN 6921	2 pcs
02023001	M8x12 $\varnothing$ 20 Support Sleeve	2 pcs





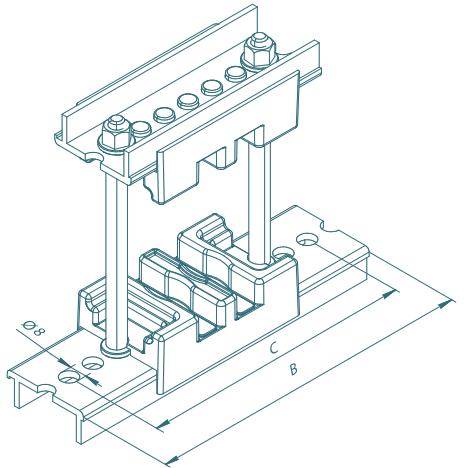
100-10-4 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
since 2022		
70111010260175_120	175	150



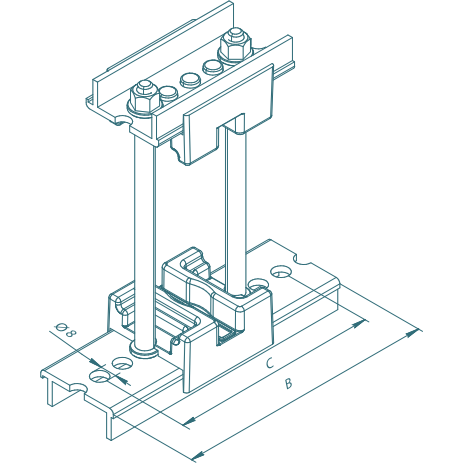
87-10-3 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
since 2022		
70118710260162_120	162	137



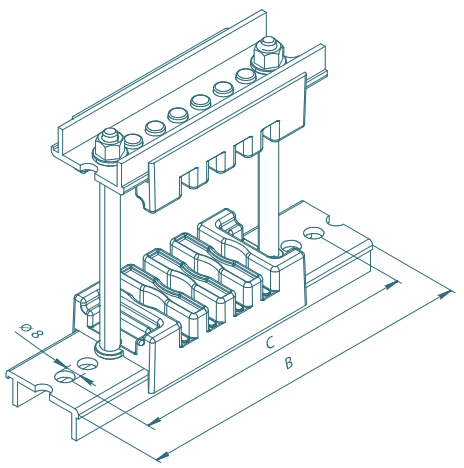
75-10-2 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
since 2022		
70117510260150_120	150	125



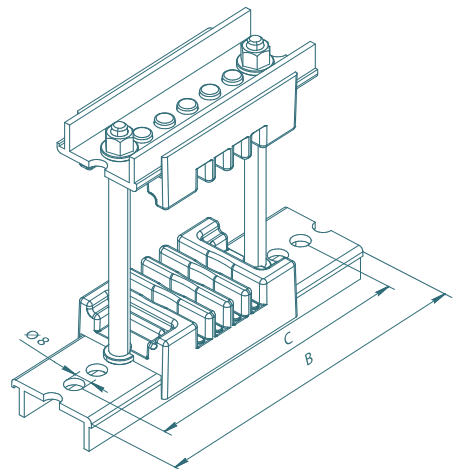
50-10-1 SINGLE-POLE
INSULATED BUSBAR HOLDER

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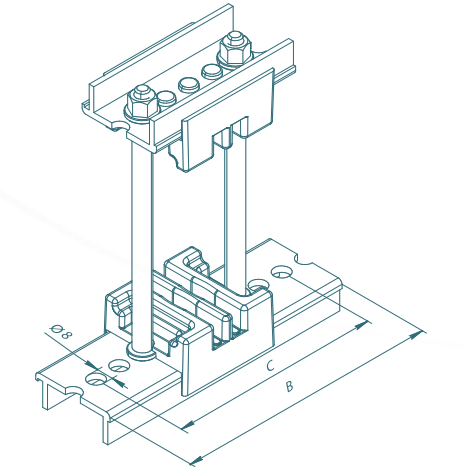
87-5-4 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
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75-5-4 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
since 2022		
70117505260150_120	150	125

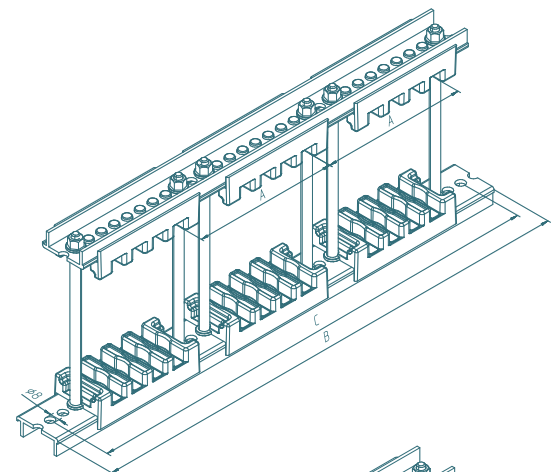


50-5-2 SINGLE-POLE
INSULATED BUSBAR HOLDER

Article number	Profile B, mm	Mounting C, mm
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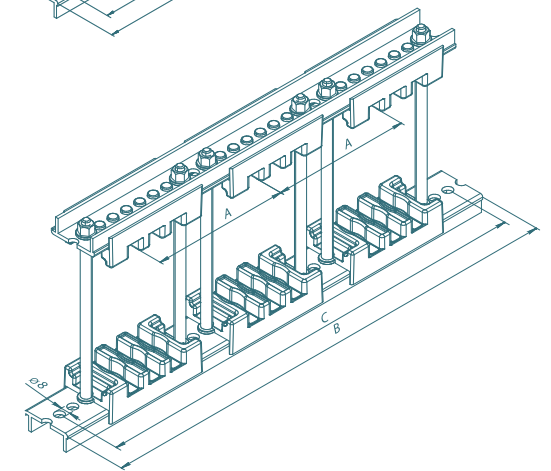


For the convenience of identifying busbar holders, the article numbers have been changed since 2022. When ordering, it is possible to specify the articles used both before and after 2022.



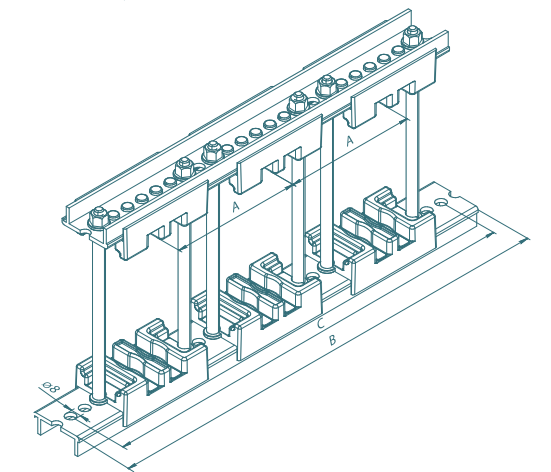
100-10-4 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70131010260425_120	125	425	400
70131010260450_120	137	450	425
70131010260475_120	150	475	450
70131010260525_120	175	525	500
70131010260575_120	200	575	550



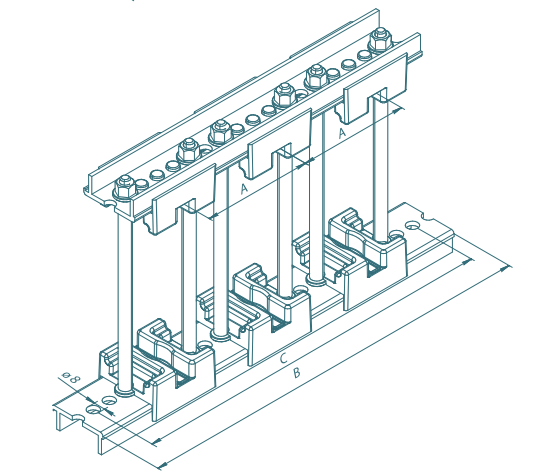
87-10-3 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70138710260387_120	112	387	362
70138710260412_120	125	412	387
70138710260437_120	137	437	412
70138710260462_120	150	462	437
70138710260487_120	162	487	462
70138710260512_120	175	512	487
70138710260537_120	187	537	512
70138710260562_120	200	562	537



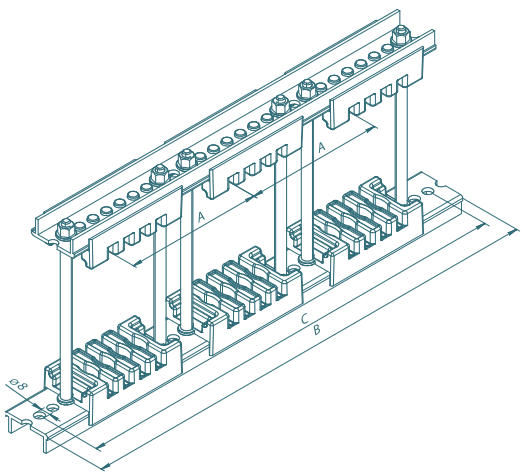
75-10-2 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70137510260350_120	100	350	325
70137510260375_120	112	375	350
70137510260400_120	125	400	375
70137510260425_120	137	425	400
70137510260450_120	150	450	425
70137510260475_120	162	475	450
70137510260500_120	175	500	475



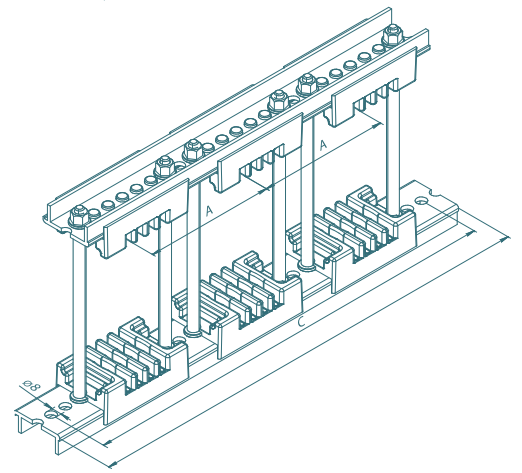
50-10-1 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70135010260275_120	75	275	250
70135010260300_120	87	300	275
70135010260325_120	100	325	300
70135010260350_120	112	350	325
70135010260375_120	125	375	350
70135010260425_120	150	425	400



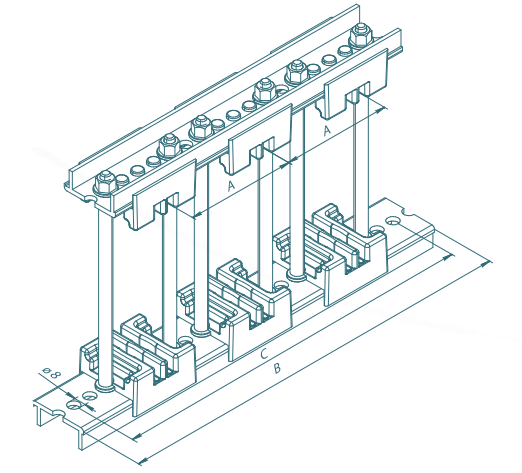
87-5-4 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70138705260387_120	112	387	362
70138705260412_120	125	412	387
70138705260437_120	137	437	412
70138705260462_120	150	462	437
70138705260512_120	175	512	487
70138705260562_120	200	562	537



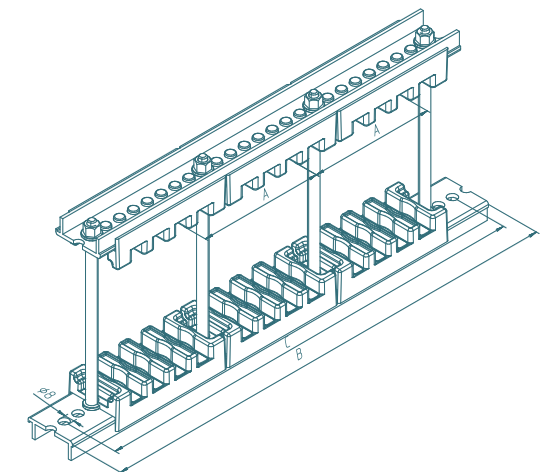
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INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70137505260350_120	100	350	325
70137505260375_120	112	375	350
70137505260400_120	125	400	375
70137505260425_120	137	425	400
70137505260450_120	150	450	425
70137505260500_120	175	500	475



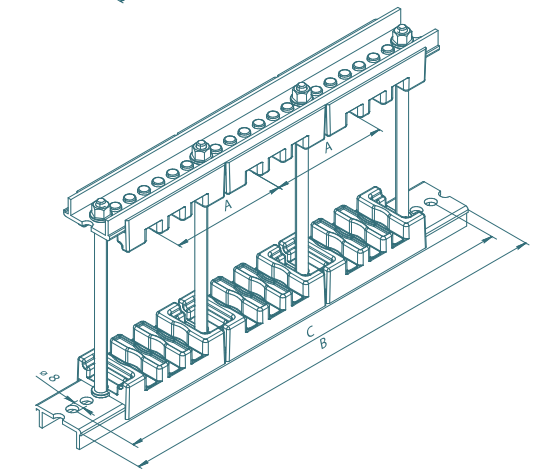
50-5-2 THREE-POLE
INSULATED BUSBAR HOLDER WITH
PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70135005260275_120	75	275	250
70135005260300_120	87	300	275
70135005260325_120	100	325	300
70135005260350_120	112	350	325
70135005260375_120	125	375	350
70135005260425_120	150	425	400



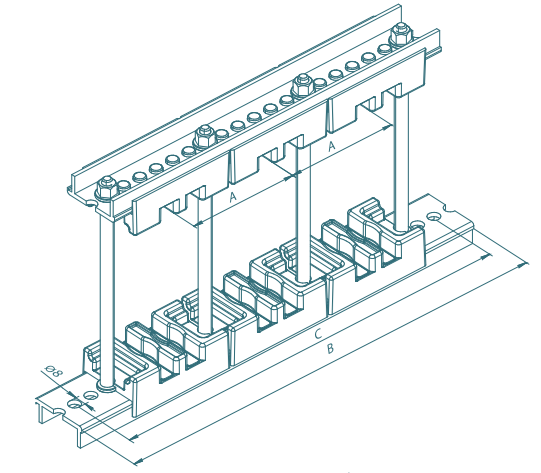
100-10-4 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70131010160375_120	100	375	350
70131010160400_120	112	400	375
70131010160425_120	125	425	400



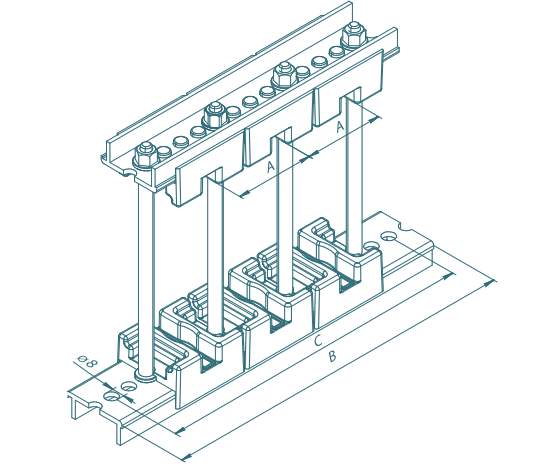
87-10-3 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70138710160337_120	87	337	312
70138710160362_120	100	362	337
70138710160387_120	112	387	362



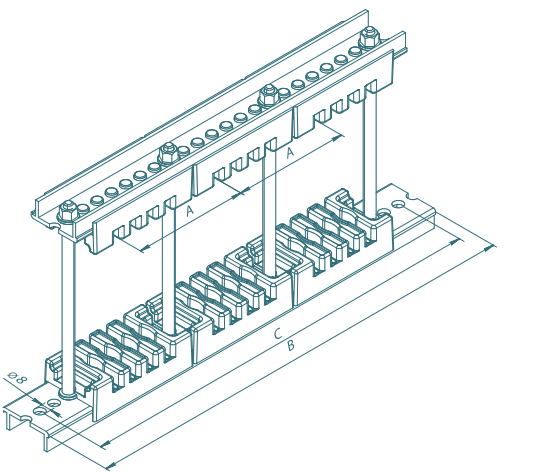
75-10-2 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
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70137510160325_120	87	325	300
70137510160350_120	100	350	325



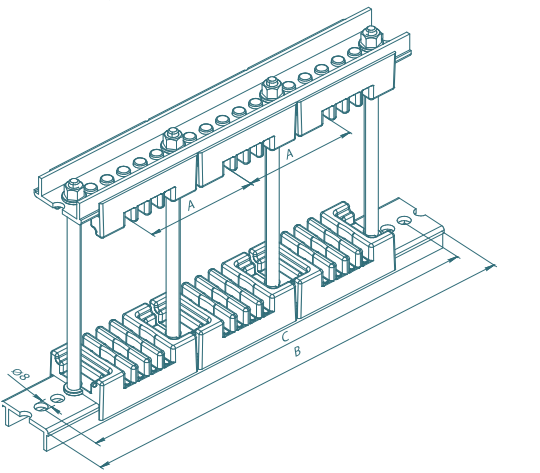
50-10-1 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70135010160225_120	50	225	200
70135010160250_120	62	250	225
70135010160275_120	75	275	250



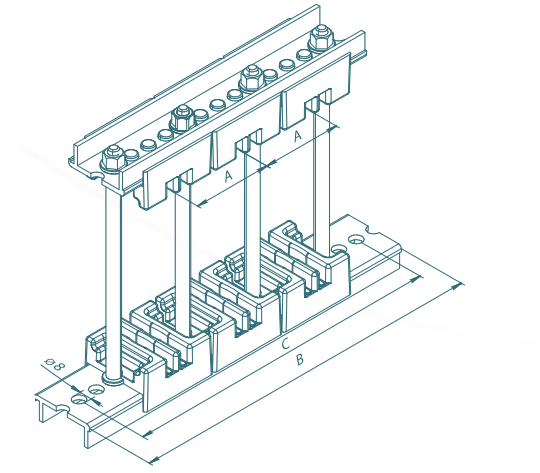
87-5-4 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

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70138705160337_120	87	337	312
70138705160362_120	100	362	337
70138705160387_120	112	387	362



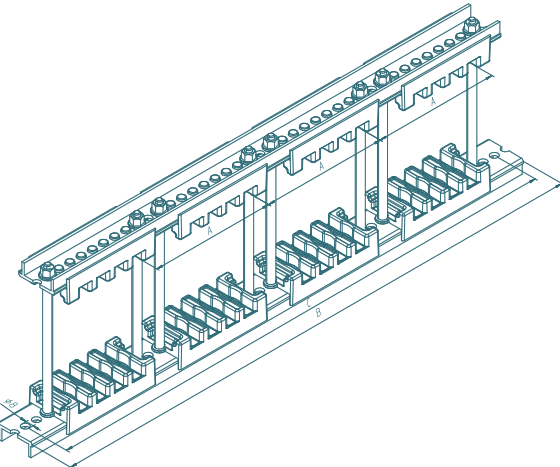
75-5-4 THREE-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

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70137505160325_120	87	325	300
70137505160350_120	100	350	325



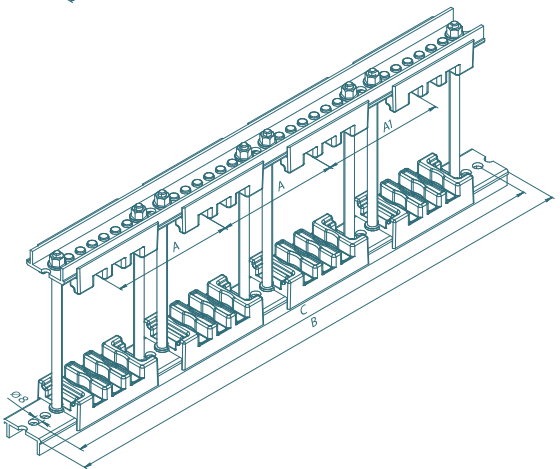
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Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
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70135005160250_120	62	250	225
70135005160275_120	75	275	250



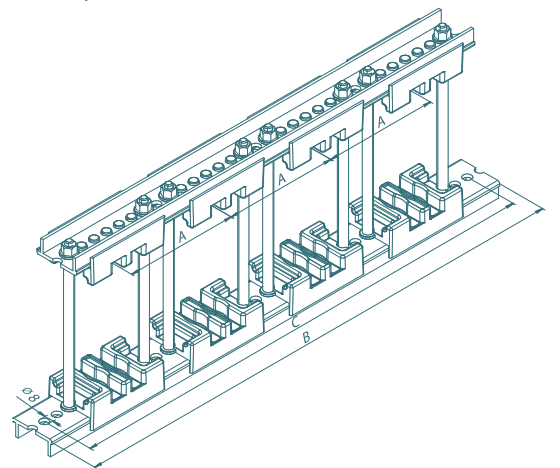
100-10-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70141010260550_120	125	550	525
70141010260587_120	137	587	562
70141010260625_120	150	625	600
70141010260700_120	175	700	675
70141010260775_120	200	775	750



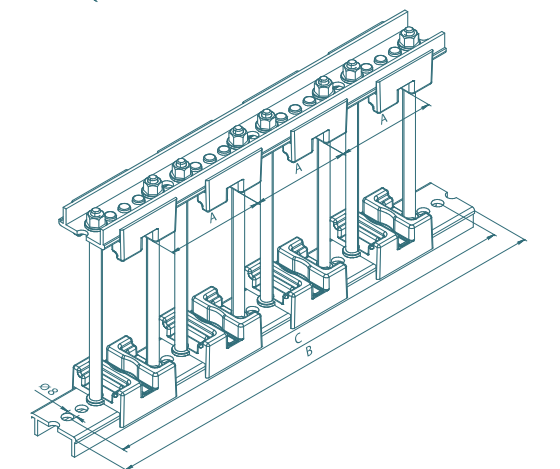
87-10-3 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70148710260500_120	112	500	475
70148710260537_120	125	537	512
70148710260550_120	125(137)	550	525
70148710260575_120	137	575	550



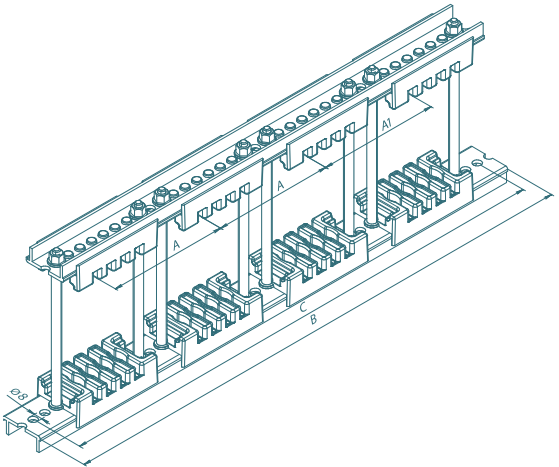
75-10-2 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70147510260450_120	100	450	425
70147510260487_120	112	487	462
70147510260525_120	125	525	500
70147510260562_120	137	562	537



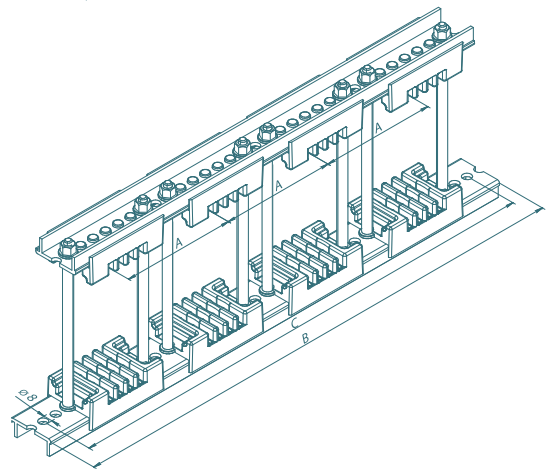
50-10-1 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70145010260350_120	75	350	325
70145010260387_120	87	387	362
70145010260425_120	100	425	400
70145010260462_120	112	462	437



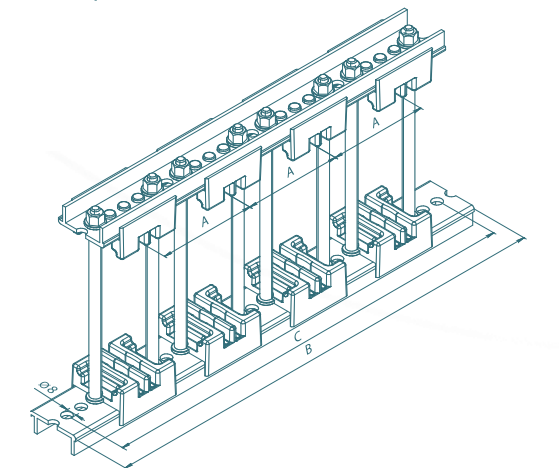
87-5-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70148705260500_120	112	500	475
70148705260537_120	125	537	512
70148705260550_120	125(137)	550	525
70148705260575_120	137	575	550



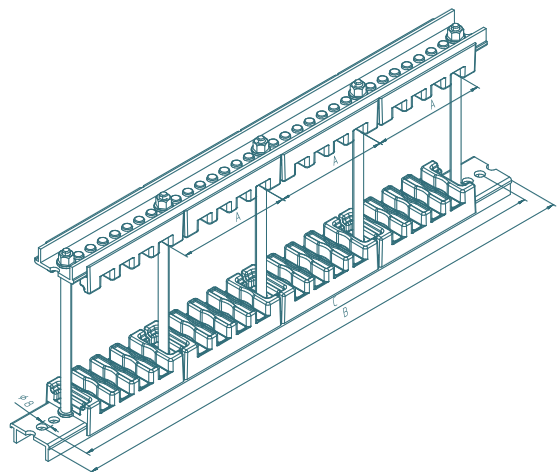
75-5-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70147505260450_120	100	450	425
70147505260487_120	112	487	462
70147505260525_120	125	525	500
70147505260562_120	137	562	537



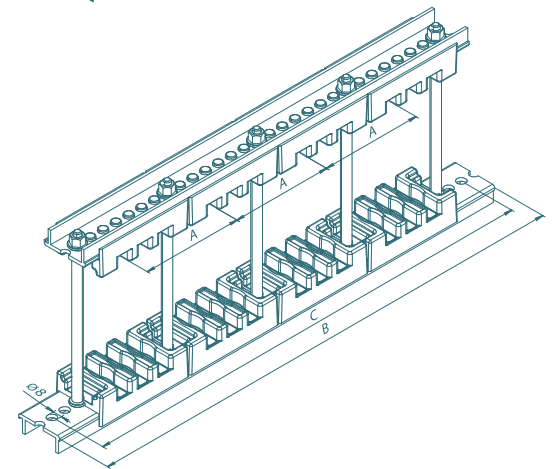
50-5-2 FOUR-POLE INSULATED BUSBAR HOLDER WITH PAIRED MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70145005260350_120	75	350	325
70145005260387_120	87	387	362
70145005260425_120	100	425	400
70145005260462_120	112	462	437



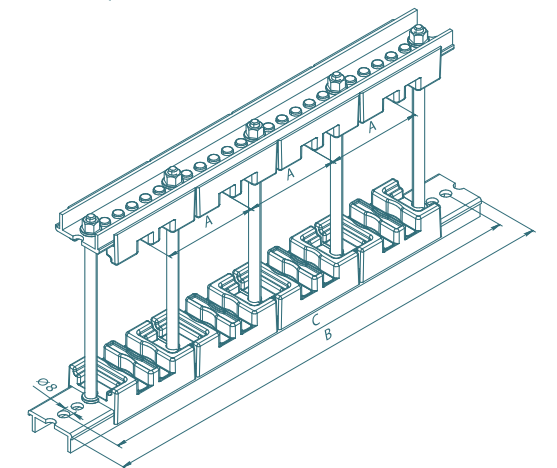
100-10-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70141010160475_120	100	475	450
70141010160512_120	112	512	487
70141010160550_120	125	550	525



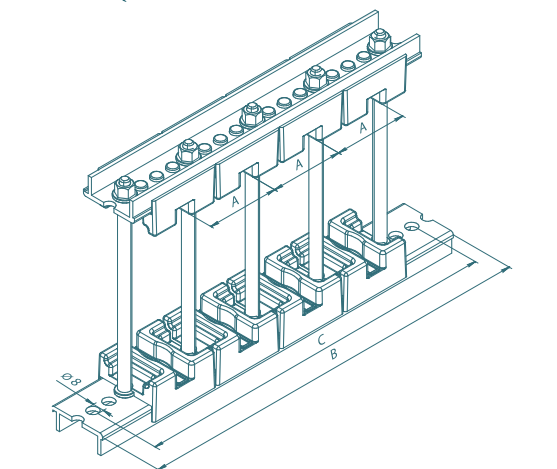
87-10-3 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70148710160425_120	87	425	400
70148710160462_120	100	462	437
70148710160500_120	112	500	475



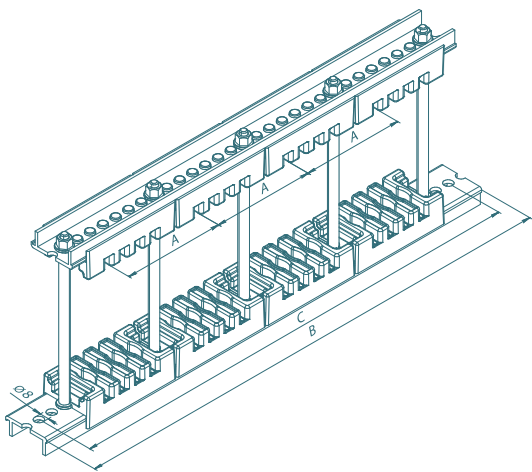
75-10-2 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70147510160412_120	75	375	350
70147510160450_120	87	412	387
70147510160487_120	100	450	425



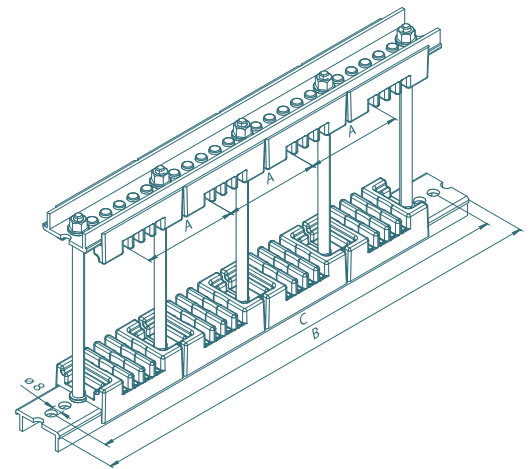
50-10-1 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70145010160275_120	50	275	250
70145010160312_120	62	312	287
70145010160350_120	75	350	325



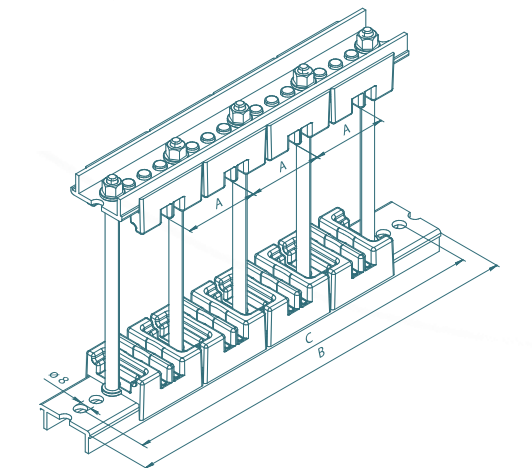
87-5-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70148705160425_120	87	425	400
70148705160462_120	100	462	437
70148705160500_120	112	500	475



75-5-4 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70147505160375_120	75	375	350
70147505160412_120	87	412	387
70147505160450_120	100	450	425



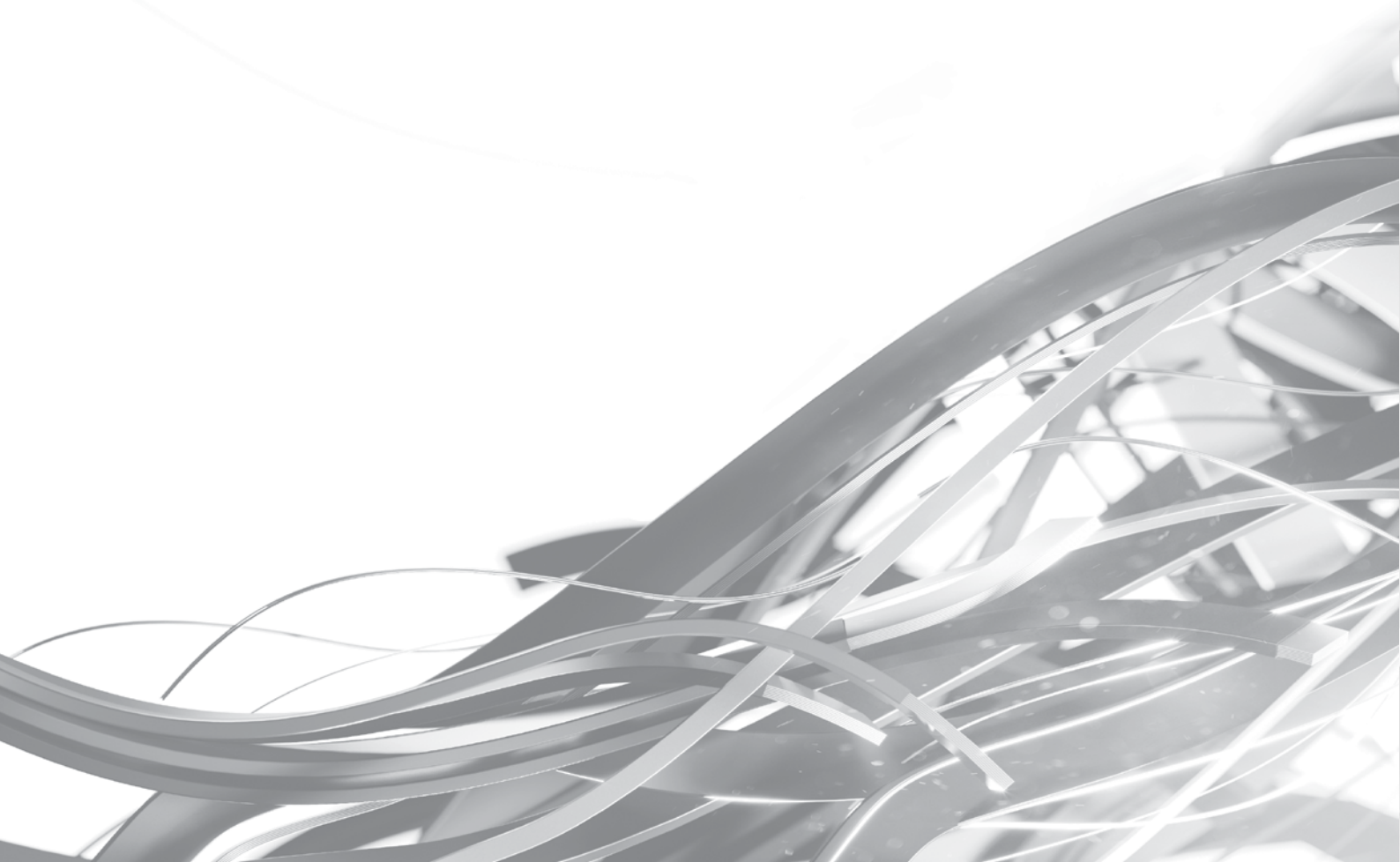
50-5-2 FOUR-POLE INSULATED BUSBAR HOLDER WITH INTERMEDIATE MOUNTING

Article number since 2022	Cross-phasal distance A, mm	Profile B, mm	Mounting C, mm
70145005160275_120	50	275	250
70145005160312_120	62	312	287
70145005160350_120	75	350	325



PRODUCT NAMING RULES

Product name (according to TS)	Product type	Abbreviation
Busbar Holders, MB type	MB	A new version of the busbar holder designation from 2022: MB Np 100-10-4 MB Np 87-5-4, MB Np 87-10-3 MB Np 75-5-4 MB Np 75-10-2 MB Np 50-5-2 MB Np 50-10-1, where: Np – number of poles, where N is 1, 2, 3, 4 100-10-4, 87-5-4, 87-10-3, 75-5-4, 75-10-2, 50-5-2, 50-10-1 – type of polymer insulators *Special design of the busbar holder – it can consist of several types of insulators and have a different number of poles, which are indicated one after the other separated by a space, for example, the busbar holder MB 4p 75-5-4 2p 50-5-2.





GEOGRAPHY OF DELIVERIES

Our products delivery is always convenient for the customer.

We deliver by road, rail and air transport across Russia from Kaliningrad to Sakhalin.

We also deliver to major transport centers in other countries. High-quality packaging ensures product safety and meets the requirements of international standards.

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