

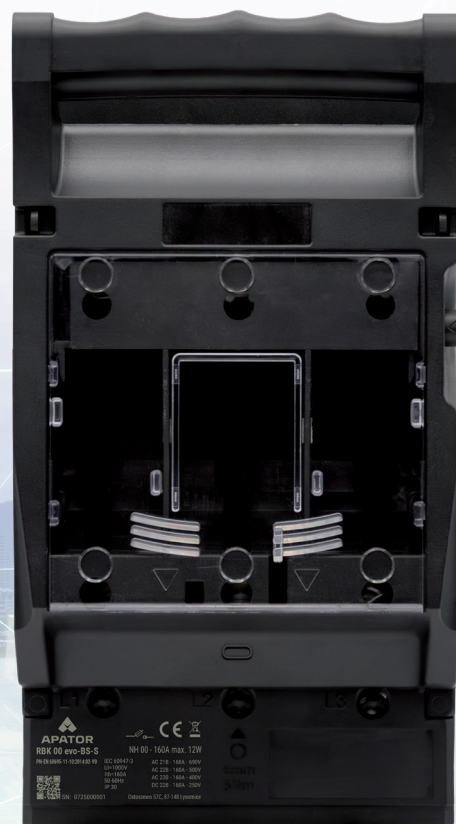


Fused switch disconnectors RBK 00 evo

2026 product catalogue

RBK 00 evo fused switch disconnectors

Switch disconnectors intended for electrical power distribution and protecting electrical equipment against the effects of short circuits and overloads by means of industrial fuse-links



RBK 00 evo-B5

DESIGN

- switch disconnector made of thermoplastic polyamide reinforced with glass fibre, with the highest flammability class V0 – halogen-free flame retardant
- RBK 00 evo switch disconnectors consist of the following subassemblies: – a 3-pole base fitted with spring-loaded jaw contacts, allowing direct connection of cables with stripped ends or crimped terminals, as well as busbars – a removable cover housing the fuse-links
- galvanically silver-plated contacts ensure low power losses
- the contacts and current paths are made of electrical-grade copper

FUNCTIONALITY

- switching on-off operations should be carried out with a firm movement
- possibility of connecting cables using a screw-type terminal or by means of a V-clamp
- possibility of carrying out an inspection measurement – measuring holes in the switch disconnecter cover
- possibility of checking the condition of the fuse-link

APPLICATION

RBK 00 evo fuse switch disconnectors are intended for electrical power distribution and protecting electrical equipment against the effects of short circuits and overloads by means of industrial fuse-links. Designed in accordance with the applicable standards PN-EN IEC 60947-1 and PN-EN IEC 60947-3. They are dedicated to low-voltage industrial switchboards and cable distribution junctions.

OPERATING CONDITIONS

- installation in rooms free from dust and corrosive or explosive gases
- altitudes up to 2000 metres above sea level
- ambient temperature from -25°C to +55°C

INSTALLATION

- on a mounting plate
- on busbars with a 60 mm busbar spacing
- on an insulated IP20 busbar bridge with a 60 mm busbar spacing

Tabela 1. Technical data

Parameter		RBK 00 evo			
Rated thermal current I_{th}	A	160			
Rated voltage U_n	V	690			
Category of use		AC-23B	AC-22B	AC-21B	DC-22B
rated switching current I_e	A	160			
Switching voltage	V	400	500	690	250
Rated conditional short-circuit withstand current	kA	120			20
Rated conditional short-circuit making current	kA	120			20
Rated impulse withstand voltage $U_{imp.}$	kV	8			
Rated short-time withstand current I_{cw}	kA	5/1s			
Rated insulation voltage U_i	V	1000			
Rated frequency	Hz	50-60			
Mechanical endurance		1600			
Electrical endurance		200			
Degree of protection in the closed position, front		IP30			
Degree of protection in the closed position, complete unit		IP20			
Degree of protection in the open position, complete unit		IP10			
Fuse link size		0			
Power dissipation of fuse links	W	12			

I_{th} - thermal current of the switch disconnector without cover plate, in open air (when installing switch disconnectors in enclosures, correction factors for current-carrying capacity should be taken into account)



RBK 00 evo

Tabela 2. Versions

RBK 00 evo		type of cable terminals	catalogue no.
Mounting on plate			
RBK 00 evo-MP-S switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823256-311
RBK 00 evo-MP-M switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823256-321
RBK 00 evo-MP-V switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823256-331
RBK 00 evo-MP-R switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823256-371
RBK 00 evo-MP-S-X switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823256-312
RBK 00 evo-MP-M-X switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823256-322
RBK 00 evo-MP-V-X switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823256-332
RBK 00 evo-MP-R-X switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823256-372

[-X] – electronic blown fuse-link monitoring

* – the use of ferrules is recommended for stranded cables

**RBK 00 evo-MP****RBK 00 evo-MP-X**

Mounting on 60 mm busbar bridge – busbar thickness 5 or 10 mm			
RBK 00 evo-MS-S switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823259-411
RBK 00 evo-MS-M switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823259-421
RBK 00 evo-MS-V switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823259-431
RBK 00 evo-MS-R switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823259-471
RBK 00 evo-MS-S-X switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823259-412
RBK 00 evo-MS-M-X switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823259-422
RBK 00 evo-MS-V-X switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823259-432
RBK 00 evo-MS-R-X switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823259-472

[-X] – electronic blown fuse-link monitoring

* – the use of ferrules is recommended for stranded cables

**RBK 00 evo-MS****RBK 00 evo-MS**

Mounting on 60 mm IP20 busbar bridge – busbar thickness 5 mm or 10 mm

RBK 00 evo-BS-S switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823259-311
RBK 00 evo-BS-M switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823259-321
RBK 00 evo-BS-V switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823259-331
RBK 00 evo-BS-R switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823259-371
RBK 00 evo-BS-S-X switch disconnecter	for connecting conductors with stripped ends	bridge terminal	63-823259-312
RBK 00 evo-BS-M-X switch disconnecter	for conductors with crimped cable terminals	screw terminal	63-823259-322
RBK 00 evo-BS-V-X switch disconnecter	for sector-shaped conductors with stripped ends	sector-shaped terminal	63-823259-332
RBK 00 evo-BS-R-X switch disconnecter	for connecting conductors with stripped ends *	frame terminal	63-823259-372

[X] – electronic blown fuse-link monitoring

* – the use of ferrules is recommended for stranded cables



RBK 00 evo-BS

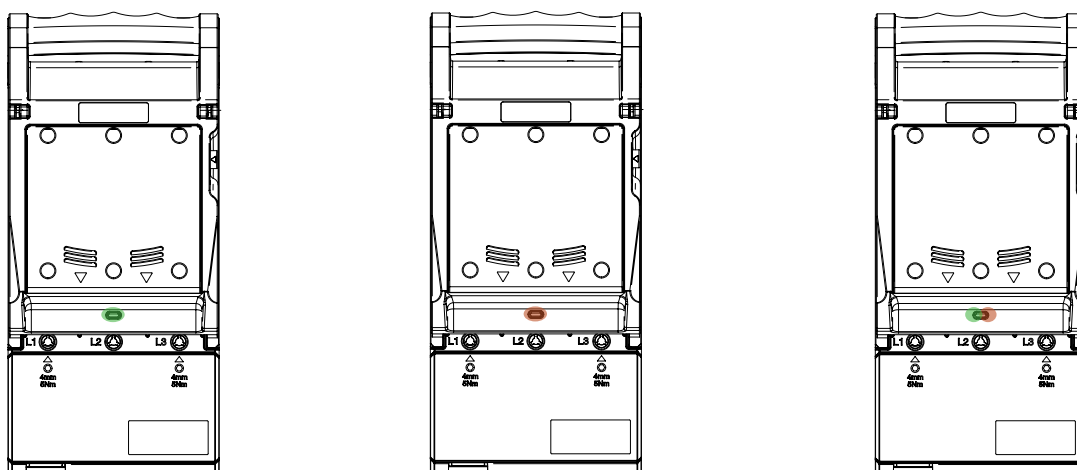


RBK 00 evo-BS

Operating principle of the fuse-link blown monitoring module:

ESU electronic blown fuse-link monitoring module for RBK 00 evo-MS-_-X

The basic function of the ESU module is to indicate whether the fuse link is intact or blown (it acts as an indicator). Blown fuse link/links is/are indicated by a red LED and by the relay contacts switching over. The system contains a microcontroller with a maximum clock frequency of 32 MHz.



STANDARD MODE

a) the green LED is continuously lit – normal operation, all fuse links are intact and all phases are available (the system can also operate with 2 phases and this is also a normal operating state). During normal operation, the operator can check whether the system is functioning correctly by touching the TEST button.

b) the red LED is continuously lit – one or more fuse links are blown. Activating the TEST button while the red LED is lit starts SPECIAL MODE.

SPECIAL MODE

The mode is activated using the touch button marked TEST when the red LED is lit. Once activated, the operator can disable correct-operation monitoring for one or two fuse links.

When power is applied, the system displays a start-up sequence indicating whether the supply is three-phase or two-phase, which terminals the supply has been connected to, and whether the fuse links are intact. The system will not detect whether a fuse link is intact or blown if no voltage is applied to the terminal with that fuse link.

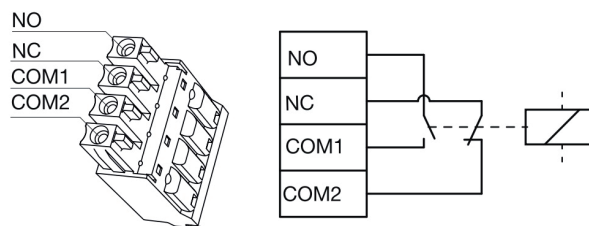
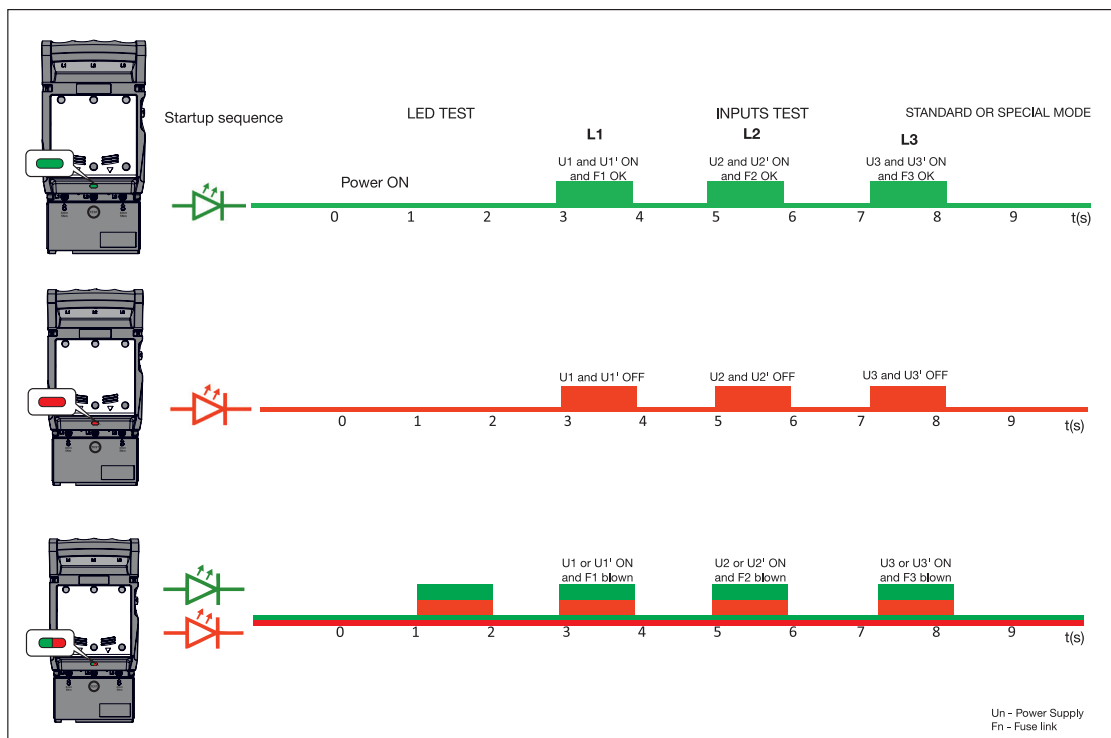
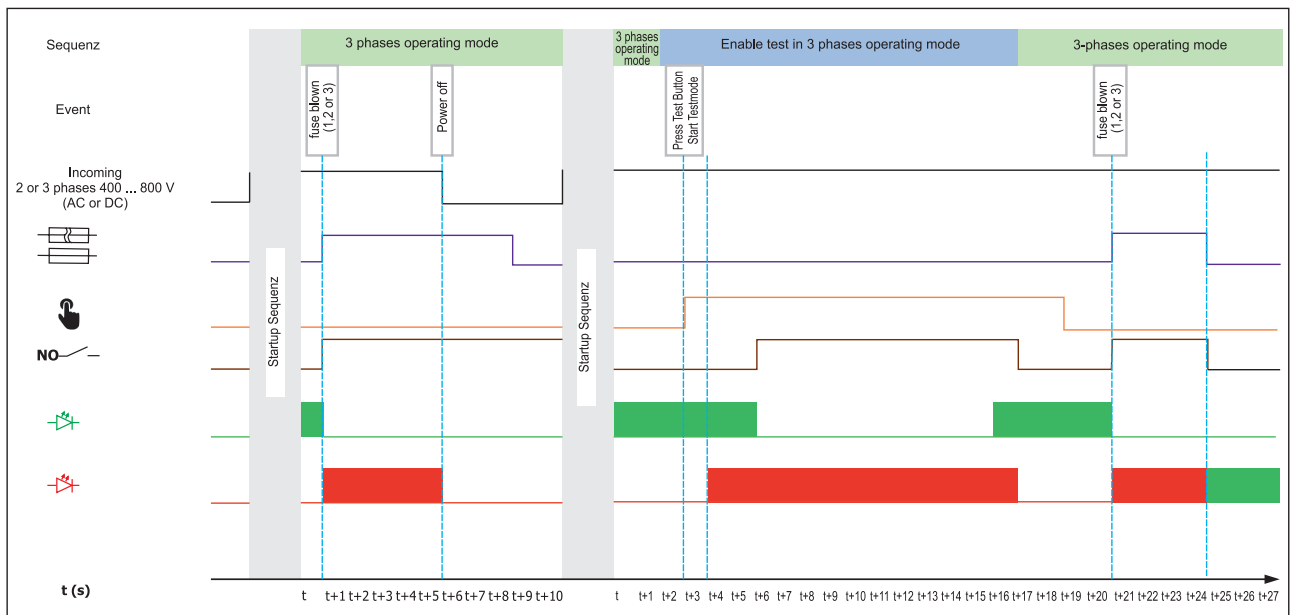


Tabela 3. Type of connection terminals

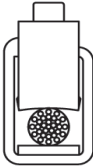
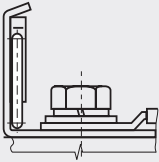
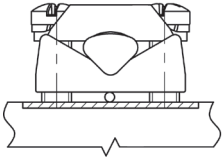
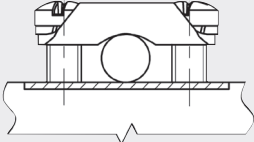
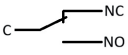
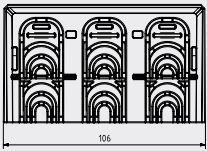
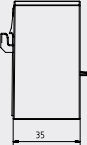
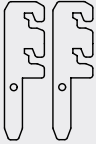
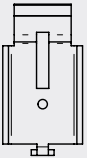
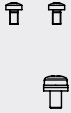
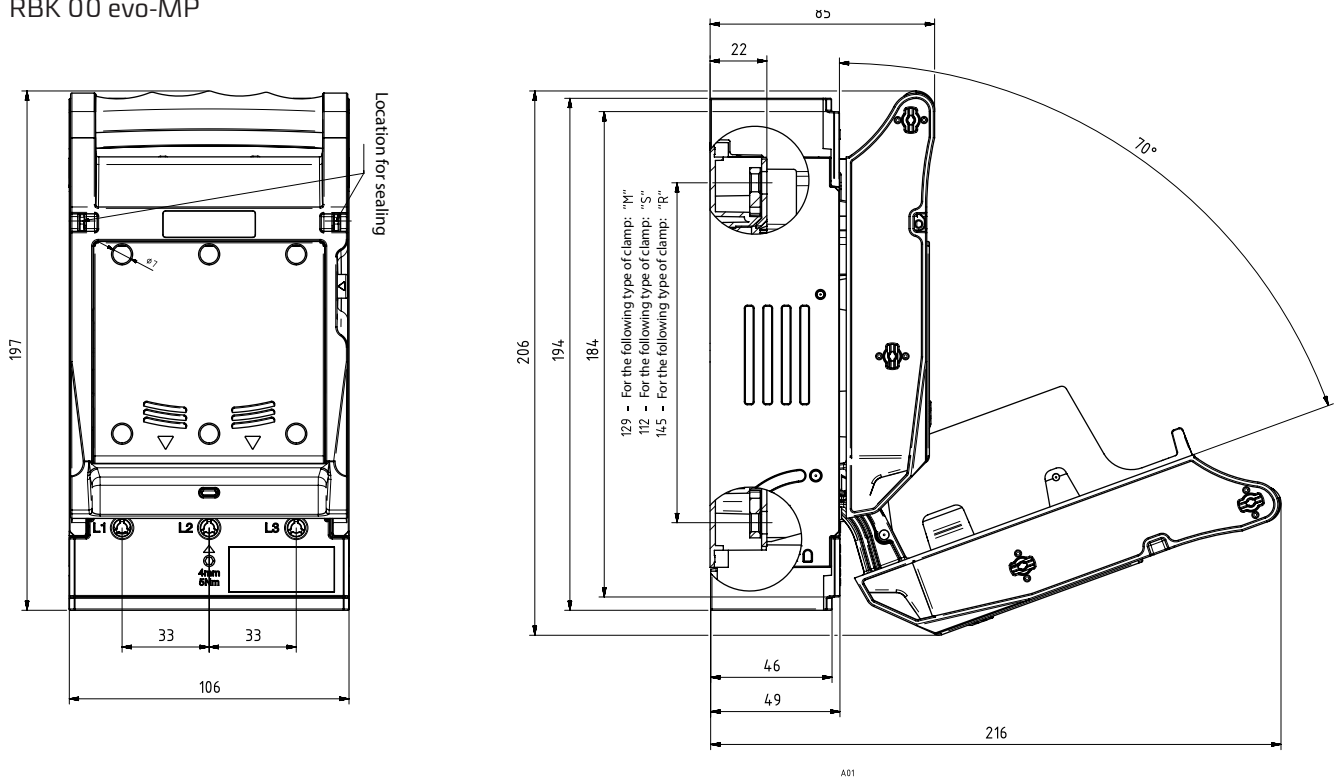
Terminal	Terminal drawing	Cable conductor cross-section	Tightening torque
frame		4 ÷ 95 mm ²	5 Nm
screw M8 x 16		cable with lug 70 mm ²	10 Nm
sector 2 x M5 x 20		 4 mm ² ÷ 70 mm ²  4 mm ² ÷ 95 mm ²  4 mm ² ÷ 95 mm ²	3 Nm
bridge 2 x M5 x 16		Cu/Al cable 4 ÷ 50 mm ²	3 Nm

Tabela 4. Accessories

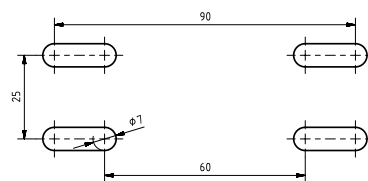
Description	Catalogue No.	Drawing/photo
auxiliary contact	53-434000-050	  
extension cover: - for busbar bridge version - for mounting plate version	53-434000-053 53-434000-052	 
window lock (voltage measurement)	53-434-000-051	
mounting kit for TH rail	53-000418-012	  

Dimensional drawings:

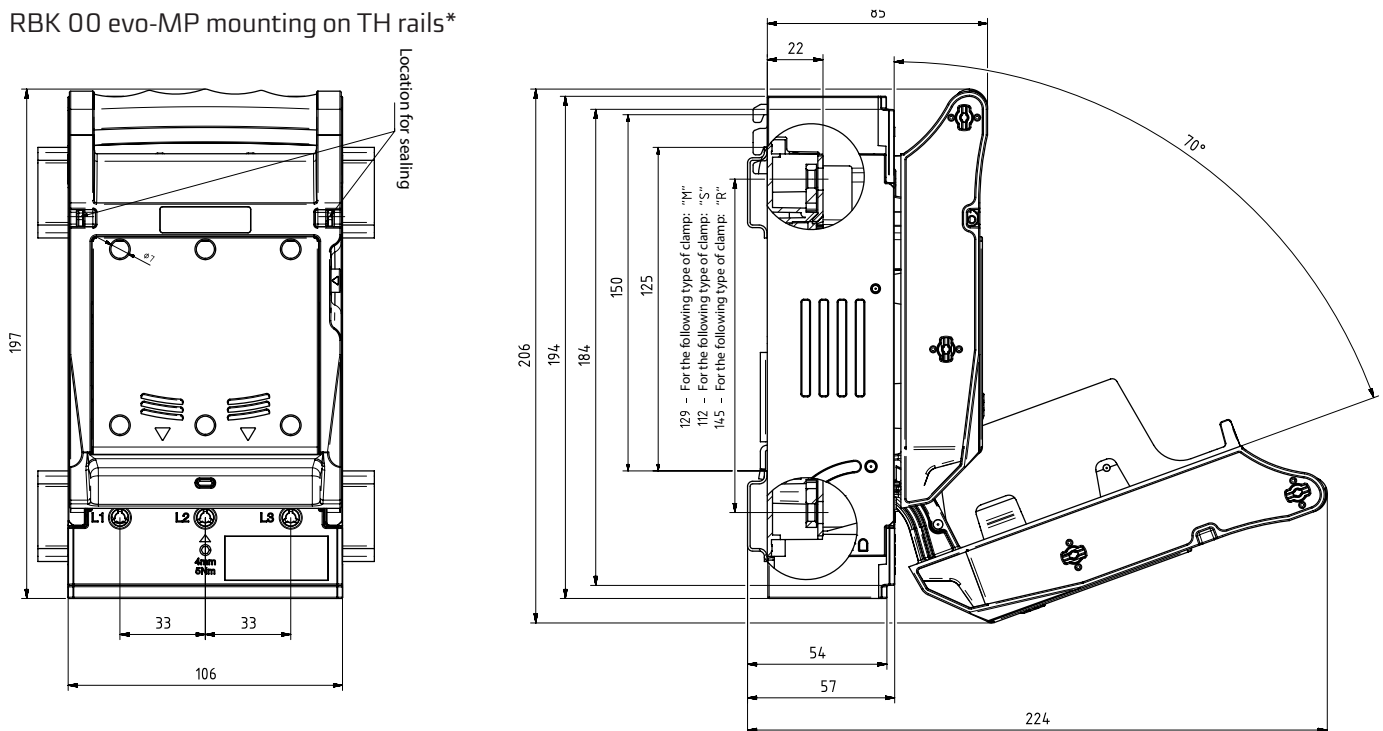
RBK 00 evo-MP



Mounting holes

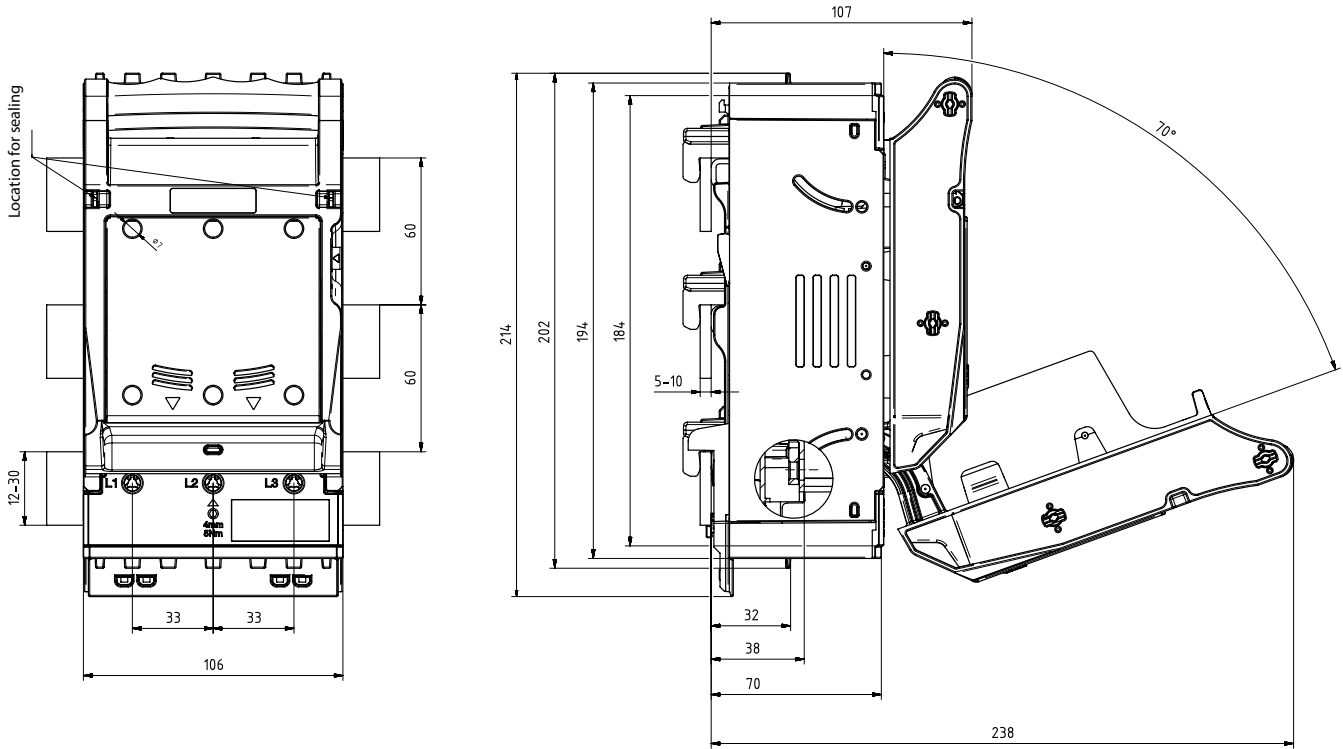


RBK 00 evo-MP mounting on TH rails*

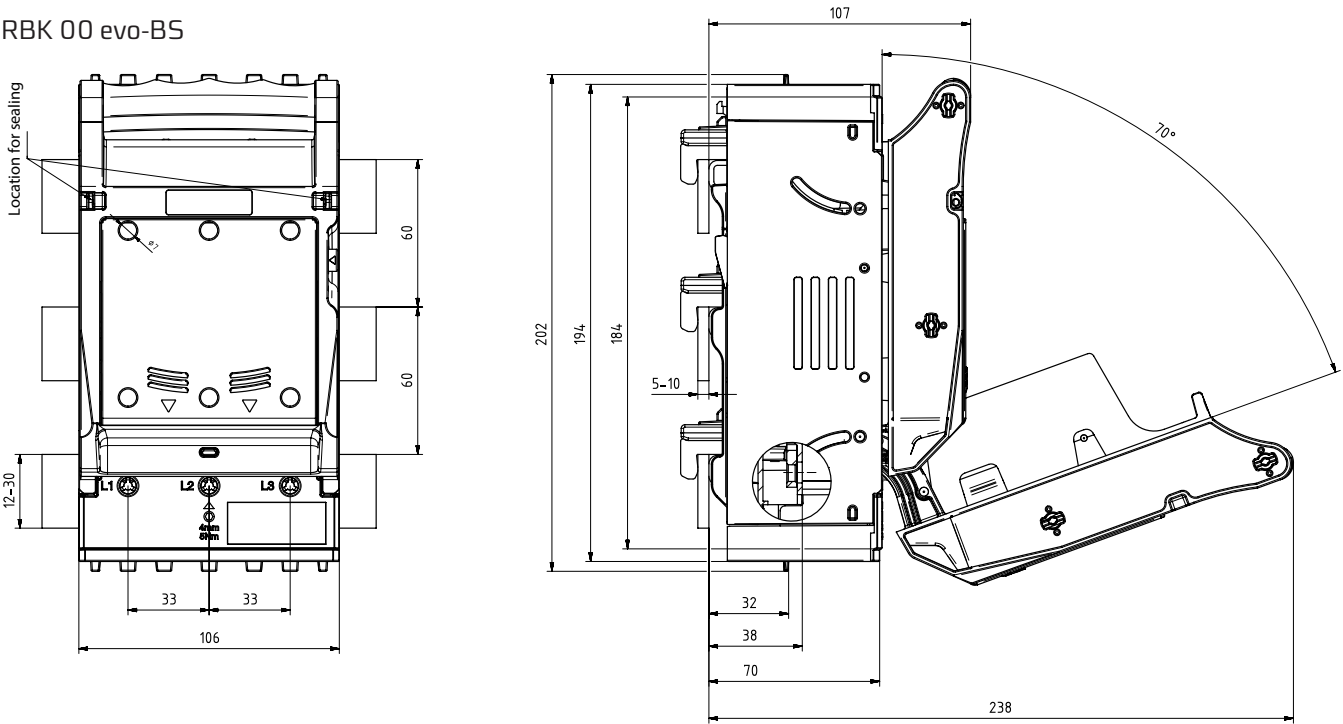


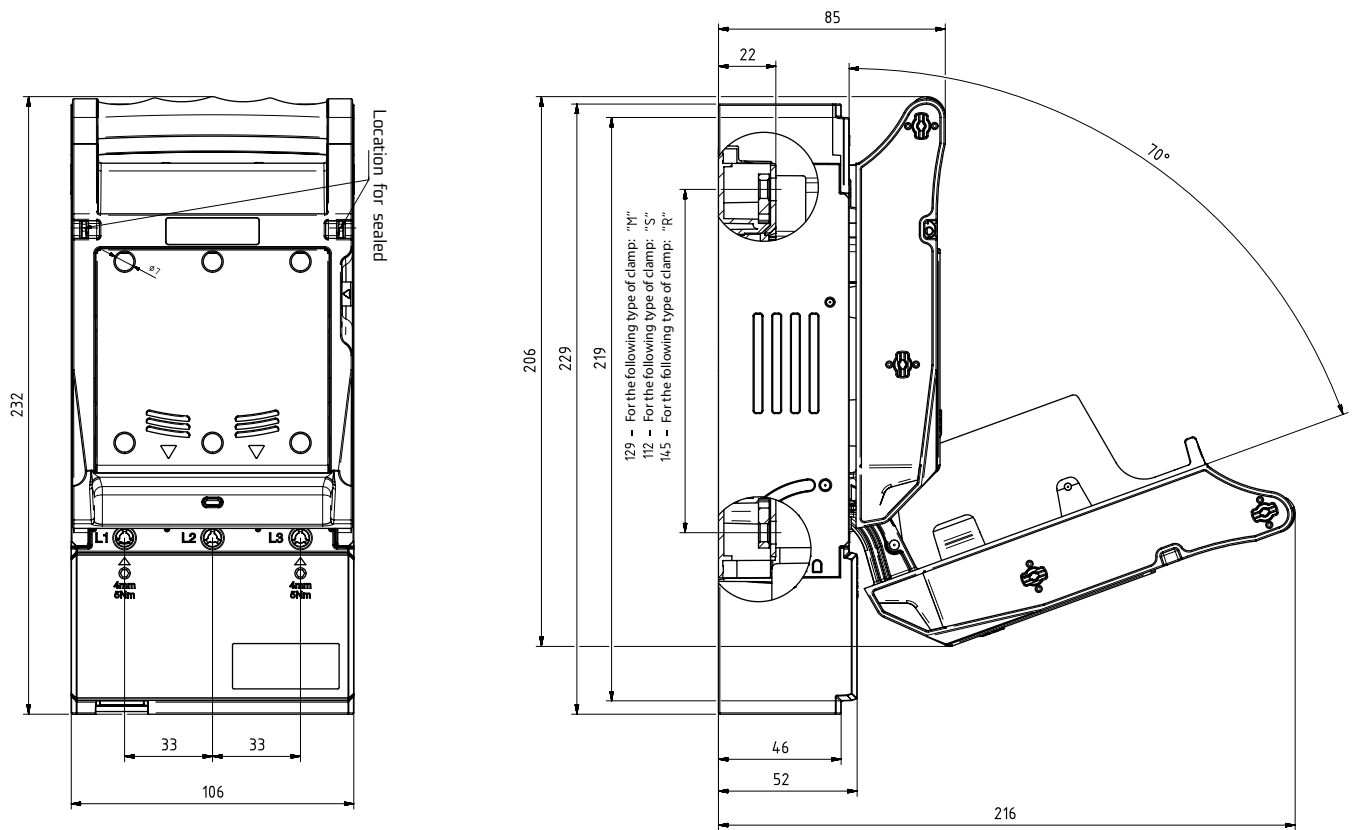
* - mounting the switch-disconnector on a TH rail using the "Mounting kit for TH rails", no. 53-000418-012

RBK 00 evo-MS



RBK 00 evo-BS





NOTES

The data presented in the sheet is up-to-date as of the date of issue.
The manufacturer reserves the right to make changes and improvements to the products without prior notice.
This publication has been made exclusively for information purposes and shall not constitute an offer under civil law.

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