Protective Devices Add-on Residual Current Protection Unit PBSM

AK73C

前

T-T-N

8SM-404/003

Land A



1

Catalog

Protective Devices Add-on Residual Current Protection Unit PBSM (MW)



Description

- Combining this device with a top-quality miniature circuit breaker of type PLS. will form a top-quality RCBO unit (combined RCD/MCB device)
- Draw-out connection bar locked in installation position
- For subsequent mounting onto 2-, 3-, 3+N- and 4-pole miniature circuit breakers PLS.
- Rated current 40 and 63 A

Protective Devices

Add-on Residual Current Protection Unit PBSM (MW)

xPole

Max. nominal current of PLS./I $_{\Delta n}$ (A)	Type Designation	Units backa
Type AC		

2-pole

Conditionally surge current-proof 250 A, type AC



1 million				
+	40/0.03	PBSM-402/003	262323	1/20
	40/0.10	PBSM-402/01	262324	1/20
	40/0.30	PBSM-402/03	262325	1/20
(in)	40/0.50	PBSM-402/05	262326	1/20
180	40/1.00	PBSM-402/1	262327	1/20
	63/0.03	PBSM-632/003	262426	1/20
	63/0.10	PBSM-632/01	262427	1/20
	63/0.30	PBSM-632/03	262428	1/20
	63/0.50	PBSM-632/05	262429	1/20
	63/1.00	PBSM-632/1	262431	1/20
G18111	3-pole			
	40/0.03	PBSM-403/003	262537	1/20
F 224	40/0.10	PBSM-403/01	262538	1/20
	40/0.30	PBSM-403/03	262539	1/20
ing the	40/0.50	PBSM-403/05	262541	1/20
The second se	40/1.00	PBSM-403/1	262542	1/20
088c	63/0.03	PBSM-633/003	262556	1/20
	63/0.10	PBSM-633/01	262557	1/20
	63/0.30	PBSM-633/03	262558	1/20
	63/0.50	PBSM-633/05	262559	1/20
	63/1.00	PBSM-633/1	262560	1/20
\$18211	4-pole			
	40/0.03	PBSM-404/003	262568	1/13
F1 # 10 10 10 10 10 10 10 10 10 10 10 10 10	40/0.10	PBSM-404/01	262569	1/13
	40/0.30	PBSM-404/03	262570	1/13
100	40/0.50	PBSM-404/05	262571	1/13
And Street and Street	40/1.00	PBSM-404/1	262572	1/13
	63/0.03	PBSM-634/003	262590	1/13
	63/0.10	PBSM-634/003	262590	1/13
	63/0.30		262591	
		PBSM-634/03		1/13
	63/0.50	PBSM-634/05	262595	1/13

PBSM-634/1

Explanation PBSM: P = xPole, BS = Add-on Residual Current Protection Unit onto PLS., M = 10 kA

63/1.00

262596

1/13

Protective Devices

Add-on Residual Current Protection Unit PBSM (MW)

PBSM-402/003-A



Article No. Units per package

1/20

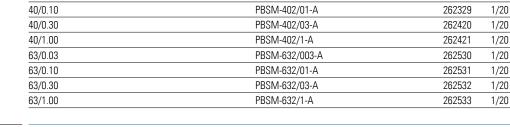
262328

Type A

2-pole 40/0.03

Conditionally surge current-proof 250 A, sensitive to residual pulsating DC, type A







3-pole		
40/0.03	PBSM-403/003-A	262543 1/20
40/0.03	PBSM-403/003-A-230	180634 1/20
40/0.10	PBSM-403/01-A	262544 1/20
40/0.30	PBSM-403/03-A	262545 1/20
40/1.00	PBSM-403/1-A	262546 1/20
63/0.03	PBSM-633/003-A	262561 1/20
63/0.03	PBSM-633/003-A-230	180635 1/20
63/0.10	PBSM-633/01-A	262562 1/20
63/0.30	PBSM-633/03-A	262563 1/20
63/1.00	PBSM-633/1-A	262564 1/20



4-pole		
40/0.03	PBSM-404/003-A	262573 1/13
40/0.10	PBSM-404/01-A	262574 1/13
40/0.30	PBSM-404/03-A	262575 1/13
40/1.00	PBSM-404/1-A	262576 1/13
63/0.03	PBSM-634/003-A	262597 1/13
63/0.10	PBSM-634/01-A	262598 1/13
63/0.30	PBSM-634/03-A	262600 1/13
63/1.00	PBSM-634/1-A	262602 1/13

SG17811

SG18211

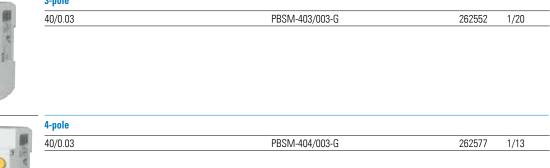
Protective Devices

Add-on Residual Current Protection Unit PBSM (MW)



	Max. nominal current of PLS./I_ $_{\Delta n}$ (A)	Type Designation	Article No. Units per package
	Type G		
	Surge current-proof 3 kA, type G	ÖVE E 8601)	
	2-pole		
	40/0.03	PBSM-402/003-G	262422 1/20
200	3-pole		
100	/በ/በ በ3	PBSM_/03/003_G	262552 1/20







Type S		
Selective + surge current	-proof 5 kA, type S	
2-pole		
40/0.10	PBSM-402/01-S	262423 1/20

PBSM-402/03-S

PBSM-402/1-S





PBSM-632/01-S	262534 1/20
PBSM-632/03-S	262535 1/20
PBSM-632/1-S	262536 1/20
PBSM-403/01-S	262553 1/20
PBSM-403/03-S	262554 1/20
PBSM-403/1-S	262555 1/20
PBSM-633/01-S	262565 1/20
PBSM-633/03-S	262566 1/20
	PBSM-632/03-S PBSM-632/1-S PBSM-403/01-S PBSM-403/03-S PBSM-403/1-S PBSM-633/01-S



4-pole		
40/0.10	PBSM-404/01-S	262586 1/13
40/0.30	PBSM-404/03-S	262587 1/13
40/1.00	PBSM-404/1-S	262588 1/13
63/0.10	PBSM-634/01-S	262603 1/13
63/0.30	PBSM-634/03-S	262605 1/13
63/1.00	PBSM-634/1-S	262607 1/13

PBSM-633/1-S

40/0.30

40/1.00

63/1.00

1/20

1/20

1/20

262424

262425

262567

SG17811

SG18111

Protective Devices

Add-on Residual Current Protection Unit PBSM (MW)



167023

1/13

	Max. nominal current of PLS./I $_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
	Type S/A			
	Selective + surge current-proof ty	p. 5 kA, sensitive to residual pulsating	DC, type S/A	
- Maria	2-pole			
	63/0.30	PBSM-632/03-S/A	167017	1/20
	3-pole			
	63/0.30	PBSM-633/03-S/A	167020	1/20

PBSM-634/03-S/A



4-pole 63/0.30

Specifications | Add-on Residual Current Protection Unit PBSM

Description

- Add-on residual current unit
- Line voltage-independent tripping
- By combining this device with a top-quality miniature circuit breaker type PLS. a top-quality RCBO unit (combined RCD/MCB device) is formed.
- Rated current 40 and 63 A
- Permits combinations with a variety of characteristics thanks to the different rated currents and characteristics of the PLS.-miniature circuit breakers which can be connected
- Comrehensive range of accessories suitable for subsequent installation onto PLS.
- The test key "T" must be pressed every 6 month. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed). The test intervall of 6 month is valid for residential and similar applications. Under all other conditions (e.g. damply or dusty environments), it's recommended to test in shorter intervalls (e.g. monthly).
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R_E), or proper checking of the earth conductor condition redundant, which must be performed separately.

- **Type -A**: Protects against special forms of residual pulsating DC which have not been smoothed.
- **Type -G**: High reliability against unwanted tripping. Suitable for any circuit where personal injury or damage to property may occur in case of unwanted tripping.
- Type -S: Selective residual current device, either sensitive to AC, type -S, or sensitive to pulsating DC, type -S/A, for protection against special forms of residual pulsating DC which have not been smoothed. Suitable for systems with surge arresters downstream of the RCD.

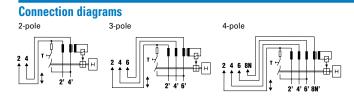
Accessories:	
Cover cap for busbar mounting bracket	In the scope of delivery
Disposable cylinder head bolt with slot	In the scope of delivery

Accessories (on PLS.):		
Auxiliary switch for subsequent installation	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal contact for subsequent installation	ZP-NHK	248437
Shunt trip release	ZP-ASA/	248438, 248439
Undervoltage release	Z-USA/	248288-248291
Additional terminal 35 mm ²	BB-UL-TEPA/35	169823

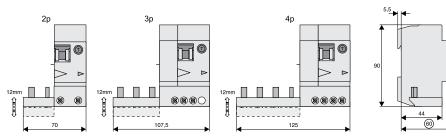
Add-on Residual Current Protection Unit PBSM (MW) - Technical Data

Technical Data

		PBSM
Electrical		
Design according to		IEC/EN 61009
Current test marks as printed onto the device		
Tripping		instantaneous 250 A (8/20 µs), surge current proof
Type G		10 ms delay 3 kA (8/20 μs), surge current proof
Type S		40 ms delay 6 kA, selective disconnecting function
Rated voltage	Un	230/400 V AC
Limits operation voltage test circuit		
2-pole, 30 mA		196-264 V
2-pole, 100, 300, 500, 1000 mA		196-456 V
3-pole, 30 mA		340-456 V
3-pole, 30 mA-230		196-264 V
3-pole, 100, 300, 500, 1000 mA		196-456 V
4-pole, 30 mA		340-456 V
4-pole, 100, 300, 500, 1000 mA		196-456 V
Rated frequency		50 Hz
Rated current		\leq 40 A, \leq 63 A
Rated tripping current	I _{An}	30, 100, 300, 500, 1000 mA
Rated non-tripping current	I _{Ano}	0.5 l _n
Sensitivity	2110	AC and pulsating DC
Rated breaking capacity	I _{cn}	same as connected PLS. up to max. 10 kA
Rated fault breaking capacity	I _{Am}	· · · · · · · · · · · · · · · · · · ·
$U_{n} = 230 \text{ V}$		6 kA
$U_{n} = 400 V$		3 kA
Mechanical		
Frame size		45 mm
Device height		90 mm
Device width		70 mm (2p), 107,5 mm (3p), 125 mm (4p)
Mounting		fix mounted onto PLS.
Degree of protection, built-in		IP40
Fastening screw		M 2.5 (slotted one-way cheese head screw; > 0.6 Nm
Upper and lower terminals		lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		
Rigid conductors		1 x (1 - 35) mm ²
Flexible conductors (with wire end sleeve)		1 x (0.75 - 35) mm ²
Busbar thickness		0.8 - 2 mm
Operating temperature		-25°C to +40°C
Storage- and transport temperature		-35°C to +60°C
Resistance to climatic conditions		25-55°C/90-95% relative humidity according to IEC 60068-2



Dimensions (mm)



Eaton's electrical business is a global leader with deep regional application expertise in power distribution and circuit protection; power quality, backup power and energy storage; control and automation; life safety and security; structural solutions; and harsh and hazardous environment solutions. Through end-to-end services, channel and an integrated digital platform & insights Eaton is powering what matters across industries and around the world, helping customers solve their most critical electrical power management challenges.

For more information, visit Eaton.com.



Eaton Industries (Austria) GmbH Scheydgasse 42 1210 Vienna Austria

Eaton EMEA Headquarters Route de la Longeraie 7 1110 Morges, Switzerland

© 2021 Eaton All Rights Reserved Publication No. CA019037EN Article number 302717-MK December 2021

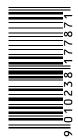
747 •

Powering Business Worldwide

Changes to the products, to the information contained in this document, and to prices are reserved; as are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



Follow us on social media to get the latest product and support information.

