

Combined RCD/MCB Devices mRB6, mRB4, 3+N-pole

- High-quality residual current device / miniature circuit breaker combination, line voltage-independent
- Contact position indicator red - green
- Fault current tripping indicator white - blue
- Guide for secure terminal connection
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- Wide variety of rated tripping currents
- Rated currents up to 25 A
- Tripping characteristics B, C, D
- Rated breaking capacity 6 kA or 4.5 kA

xPole

SG05710



Protective Devices



Combined RCD/MCB Devices mRB6

6 kA, 3+N-pole

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

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic B			
13/0.03	mRB6-13/3N/B/003-A	120651	1 / 30
16/0.03	mRB6-16/3N/B/003-A	120652	1 / 30
13/0.1	mRB6-13/3N/B/01-A	120653	1 / 30
16/0.1	mRB6-16/3N/B/01-A	120654	1 / 30
13/0.3	mRB6-13/3N/B/03-A	120655	1 / 30
16/0.3	mRB6-16/3N/B/03-A	120656	1 / 30
Characteristic C			
6/0.03	mRB6-6/3N/C/003-A	120657	1 / 30
10/0.03	mRB6-10/3N/C/003-A	120658	1 / 30
13/0.03	mRB6-13/3N/C/003-A	120659	1 / 30
16/0.03	mRB6-16/3N/C/003-A	120660	1 / 30
6/0.1	mRB6-6/3N/C/01-A	120661	1 / 30
10/0.1	mRB6-10/3N/C/01-A	120662	1 / 30
13/0.1	mRB6-13/3N/C/01-A	120663	1 / 30
16/0.1	mRB6-16/3N/C/01-A	120664	1 / 30
6/0.3	mRB6-6/3N/C/03-A	120665	1 / 30
10/0.3	mRB6-10/3N/C/03-A	120666	1 / 30
13/0.3	mRB6-13/3N/C/03-A	120667	1 / 30
16/0.3	mRB6-16/3N/C/03-A	120668	1 / 30
Characteristic D			
6/0.03	mRB6-6/3N/D/003-A	120669	1 / 30
10/0.03	mRB6-10/3N/D/003-A	120670	1 / 30
13/0.03	mRB6-13/3N/D/003-A	120671	1 / 30
16/0.03	mRB6-16/3N/D/003-A	120672	1 / 30
6/0.1	mRB6-6/3N/D/01-A	120673	1 / 30
10/0.1	mRB6-10/3N/D/01-A	120674	1 / 30
13/0.1	mRB6-13/3N/D/01-A	120675	1 / 30
16/0.1	mRB6-16/3N/D/01-A	120676	1 / 30

Combined RCD/MCB Devices mRB4

4.5 kA, 3+N-pole

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



$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic C			
20/0.03	mRB4-20/3N/C/003-A	120677	1/30
25/0.03	mRB4-25/3N/C/003-A	120678	1/30
32/0.03	mRB4-32/3N/C/003-A	folgt	1/30
20/0.1	mRB4-20/3N/C/01-A	120679	1/30
25/0.1	mRB4-25/3N/C/01-A	120680	1/30
32/0.1	mRB4-32/3N/C/01-A	folgt	1/30
20/0.3	mRB4-20/3N/C/03-A	120681	1/30
25/0.3	mRB4-25/3N/C/03-A	120682	1/30
32/0.3	mRB4-32/3N/C/03-A	folgt	1/30
Characteristic D			
20/0.03	mRB4-20/3N/D/003-A	120683	1 / 30
20/0.1	mRB4-20/3N/D/01-A	120684	1 / 30

xPole

Protective Devices

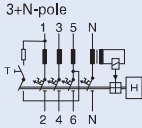
Combined RCD/MCB Devices mRB, 3+N-pole

- Combined RCD/MCB device
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red - green
- Fault current tripping indicator white - blue
- Comprehensive range of accessories suitable for subsequent installation
- **Type -A:** Protects against special forms of residual pulsating DC which have not been smoothed

Accessories:

Auxiliary switch for subsequent installation	ZP-IHK	286052
	ZP-NHK	248437
	ZP-WHK	286053
Shunt trip release	ZP-ASA/..	248438, 248439
Switching interlock	IS/SPE-1TE	101911

Connection diagram



Technical Data

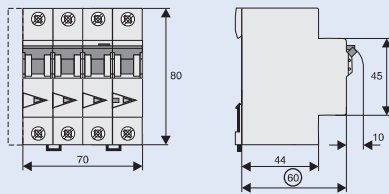
Electrical

Design according to	IEC/EN 61009
Current test marks as printed onto the device	
Tripping	
line voltage-independent	instantaneous 250A (8/20μs) surge current-proof
Rated voltage U_e	230/400V; 50Hz
Rated tripping current $I_{\Delta n}$	30, 100, 300 mA
Rated non-tripping current $I_{\Delta no}$	$0.5 I_{\Delta n}$
Sensitivity	AC and pulsating DC
Selectivity class	3
Rated breaking capacity	
mRB6	6 kA
mRB4	4.5 kA
Rated current	6 - 32 A
Rated peak withstand voltage U_{imp}	4 kV (1.2/50μs)
Characteristic	B, C, D
Maximum back-up fuse (short circuit)	100 A gL/gG
Endurance	
electrical comp.	$\geq 4,000$ operating cycles
mechanical comp.	$\geq 20,000$ operating cycles

Mechanical

Frame size	45 mm
Device height	80 mm
Device width	70 mm (4MU)
Mounting	3-position DIN rail clip, permits removal from existing busbar system
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, VBG4, ÖVE-EN 6
Terminal capacity	1 - 25 mm ²
Busbar thickness	0.8 - 2 mm
Degree of protection switch	IP20
Degree of protection, built-in	IP40
Tripping temperature	-25°C to +40°C
Storage- and transport temperature	-35°C to +60°C
Resistance to climatic conditions	acc. to IEC 68-2 (25...55°C / 90...95% RH)

Dimensions (mm)



Tripping Characteristic mRB, Characteristics B, C and D

