

Protective Devices Electronic Combined RCD/MCB Devices eRB6, 1+N-pole, 1MU

Catalog



Powering Business Worldwide

SG07911



Description

- Innovative, high-quality residual current device / miniature circuit breaker combination, line voltage-dependent
- Design width of one module unit only
- Specific for applications in the BS-distribution systems, permanently connected neutral conductors
- Contact position indicator red - green
- Comprehensive range of accessories can be mounted subsequently
- Guide for secure terminal connection
- Wide variety of rated tripping currents
- Rated currents up to 45 A
- Tripping characteristics B, C
- Rated breaking capacity 6 kA

SG07911


 $I_n/I_{\Delta n}$
(A)

Type
Designation

Article No. Units per
package
Type AC**6 kA, 1+N-pole****Conditionally surge current-proof 250 A, type AC****Characteristic B**

6/0.01	eRB6-6/1/B/001	151975	1/30
8/0.01	eRB6-8/1/B/001	151976	1/30
10/0.01	eRB6-10/1/B/001	151977	1/30
13/0.01	eRB6-13/1/B/001	151978	1/30
16/0.01	eRB6-16/1/B/001	151979	1/30
20/0.01	eRB6-20/1/B/001	151990	1/30
25/0.01	eRB6-25/1/B/001	151991	1/30
32/0.01	eRB6-32/1/B/001	151992	1/30
40/0.01	eRB6-40/1/B/001	151993	1/30
45/0.01	eRB6-45/1/B/001	151994	1/30
6/0.03	eRB6-6/1/B/003	151995	1/30
6/0.03	eRB6-6/1/B/003-PT3	152277	1/30
8/0.03	eRB6-8/1/B/003	151996	1/30
10/0.03	eRB6-10/1/B/003	151997	1/30
13/0.03	eRB6-13/1/B/003	151998	1/30
16/0.03	eRB6-16/1/B/003	151999	1/30
20/0.03	eRB6-20/1/B/003	152000	1/30
25/0.03	eRB6-25/1/B/003	152001	1/30
32/0.03	eRB6-32/1/B/003	152002	1/30
32/0.03	eRB6-32/1/B/003-PT3	152278	1/30
40/0.03	eRB6-40/1/B/003	152003	1/30
45/0.03	eRB6-45/1/B/003	152004	1/30
6/0.1	eRB6-6/1/B/01	153036	1/30
8/0.1	eRB6-8/1/B/01	153037	1/30
10/0.1	eRB6-10/1/B/01	153038	1/30
13/0.1	eRB6-13/1/B/01	153039	1/30
16/0.1	eRB6-16/1/B/01	153040	1/30
20/0.1	eRB6-20/1/B/01	153041	1/30
25/0.1	eRB6-25/1/B/01	153042	1/30
32/0.1	eRB6-32/1/B/01	153043	1/30
40/0.1	eRB6-40/1/B/01	153044	1/30
45/0.1	eRB6-45/1/B/01	153045	1/30
6/0.3	eRB6-6/1/B/03	152005	1/30
8/0.3	eRB6-8/1/B/03	152006	1/30
10/0.3	eRB6-10/1/B/03	152007	1/30
13/0.3	eRB6-13/1/B/03	152008	1/30
16/0.3	eRB6-16/1/B/03	152009	1/30
20/0.3	eRB6-20/1/B/03	152010	1/30
25/0.3	eRB6-25/1/B/03	152011	1/30
32/0.3	eRB6-32/1/B/03	152012	1/30
40/0.3	eRB6-40/1/B/03	152013	1/30
45/0.3	eRB6-45/1/B/03	152014	1/30

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SG07911



$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic C			
6/0.01	eRB6-6/1/C/001	152095	1/30
8/0.01	eRB6-8/1/C/001	152096	1/30
10/0.01	eRB6-10/1/C/001	152097	1/30
13/0.01	eRB6-13/1/C/001	152098	1/30
16/0.01	eRB6-16/1/C/001	152099	1/30
20/0.01	eRB6-20/1/C/001	152100	1/30
25/0.01	eRB6-25/1/C/001	152101	1/30
32/0.01	eRB6-32/1/C/001	152102	1/30
40/0.01	eRB6-40/1/C/001	152103	1/30
45/0.01	eRB6-45/1/C/001	152104	1/30
6/0.03	eRB6-6/1/C/003	152105	1/30
8/0.03	eRB6-8/1/C/003	152106	1/30
10/0.03	eRB6-10/1/C/003	152107	1/30
13/0.03	eRB6-13/1/C/003	152108	1/30
16/0.03	eRB6-16/1/C/003	152109	1/30
20/0.03	eRB6-20/1/C/003	152110	1/30
25/0.03	eRB6-25/1/C/003	152111	1/30
32/0.03	eRB6-32/1/C/003	152112	1/30
40/0.03	eRB6-40/1/C/003	152113	1/30
45/0.03	eRB6-45/1/C/003	152114	1/30
6/0.1	eRB6-6/1/C/01	153076	1/30
8/0.1	eRB6-8/1/C/01	153077	1/30
10/0.1	eRB6-10/1/C/01	153078	1/30
13/0.1	eRB6-13/1/C/01	153079	1/30
16/0.1	eRB6-16/1/C/01	153080	1/30
20/0.1	eRB6-20/1/C/01	153081	1/30
25/0.1	eRB6-25/1/C/01	153082	1/30
32/0.1	eRB6-32/1/C/01	153083	1/30
40/0.1	eRB6-40/1/C/01	153084	1/30
45/0.1	eRB6-45/1/C/01	153085	1/30
6/0.3	eRB6-6/1/C/03	152115	1/30
8/0.3	eRB6-8/1/C/03	152116	1/30
10/0.3	eRB6-10/1/C/03	152117	1/30
13/0.3	eRB6-13/1/C/03	152118	1/30
16/0.3	eRB6-16/1/C/03	152119	1/30
20/0.3	eRB6-20/1/C/03	152120	1/30
25/0.3	eRB6-25/1/C/03	152121	1/30
32/0.3	eRB6-32/1/C/03	152122	1/30
40/0.3	eRB6-40/1/C/03	152123	1/30
45/0.3	eRB6-45/1/C/03	152124	1/30

Specifications | Electronic Combined RCD/MCB Devices eRB6, 1+N-pole, 1MU

Description

- Electronic residual current device / miniature circuit breaker combination in only 1MU
- Tripping line voltage dependent
- Contact position indicator red - green
- Can be sealed with leads in the ON and OFF position
- Colour coded switching toggle (designating the rated current)
- Permanently connected neutral conductor
Standard version: 600 mm long, blue
PT3 version: 300 mm long, blue
- Special application in British-Standard-Distribution Boxes
- Can be connected to standard busbar (at the lower side)
- Comprehensive range of accessories can be mounted subsequently

Accessories:

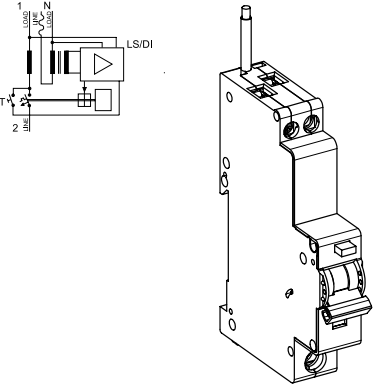
Auxiliary switch for subsequent installation	Z-AHK	248433
Tripping signal switch for subsequent installation	Z-NHK	248434
Shunt trip release	Z-ASA/..	248286, 248287
Tripping module	Z-KAM	248294

Technical Data

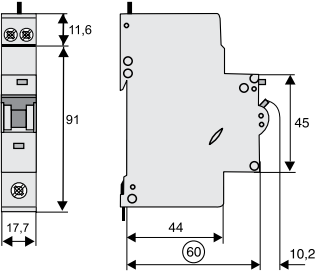
eRB6, 1+N-pole, 1MU		
Electrical		
Design according to	BS/EN 61009	
Current test marks as printed onto the device		
Number of poles	1+N-pole, pole switched, N led through (solid neutral)	
Rated voltage	U _n	240 VAC
Rated frequency	50 Hz	
Rated current	I _n	6 - 45 A
Rated tripping current	I _{Δn}	10, 30, 100, 300 mA
Sensitivity	AC	
Tripping Characteristic RCD component		
Tripping line voltage dependent	instantaneous	
Peak withstand current	250 A (8/20 μs)	
Rated non-tripping current	I _{Δno}	0.5 I _{Δn}
Voltage range for protective function	184 - 264 V~	
Tripping Characteristic MCB component		
Conventional non-tripping current	1.13 I _n	
Conventional tripping current	1.45 I _n	
Reference temperature	30°C	
Characteristic	B, C	
Rated breaking capacity	6 kA	
Selectivity class	3	
Maximum back-up fuse (short-circuit)	100 A gL (>6 kA)	
Endurance		
electrical components	≥ 4,000 switching operations	
mechanical components	≥ 20,000 switching operations	
Mechanical		
Frame size	45 mm	
Device height	102.6 mm	
Device width	17.7 mm (1MU)	
Mounting	quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715	
Degree of protection, switch	IP20	
Degree of protection, built-in	IP40	
Upper terminals	lift terminals	
Lower terminals	open-mouthed/lift terminals	
Terminal protection	finger and hand touch safe, DGUV VS3, EN 50274	
Terminal capacity	1 - 25 mm²	
Terminal torque	2 - 2.4 Nm	
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	

Connection diagram

1+N-pole



Dimensions (mm)



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