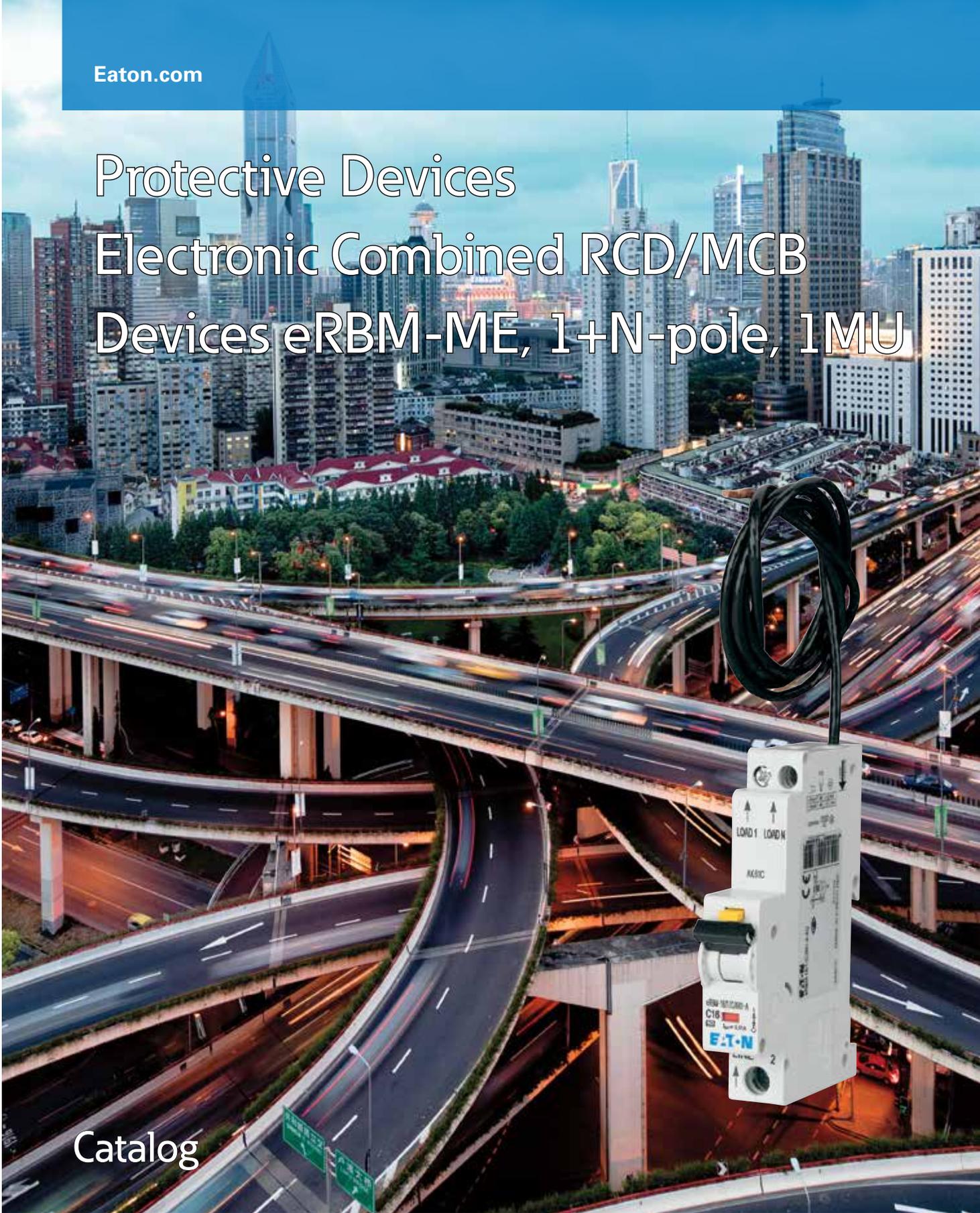


Protective Devices Electronic Combined RCD/MCB Devices eRBM-ME, 1+N-pole, 1MU



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 Characteristic C
- Rated breaking capacity 10 kA

| $I_n/I_{\Delta n}$ (A) | Type Designation | Article No. | Units per package |
|---------------------------|---------------------|-------------|----------------------|
|---------------------------|---------------------|-------------|----------------------|

Type AC

10 kA, 1+N-pole Conditionally surge current-proof 250 A, type AC

Characteristic C

| | | | |
|---------|--------------------|--------|------|
| 6/0.01 | eRBM-6/1/C/001-ME | 153230 | 1/30 |
| 8/0.01 | eRBM-8/1/C/001-ME | 153231 | 1/30 |
| 10/0.01 | eRBM-10/1/C/001-ME | 153232 | 1/30 |
| 13/0.01 | eRBM-13/1/C/001-ME | 153233 | 1/30 |
| 16/0.01 | eRBM-16/1/C/001-ME | 153234 | 1/30 |
| 20/0.01 | eRBM-20/1/C/001-ME | 153235 | 1/30 |
| 25/0.01 | eRBM-25/1/C/001-ME | 153236 | 1/30 |
| 32/0.01 | eRBM-32/1/C/001-ME | 153237 | 1/30 |
| 40/0.01 | eRBM-40/1/C/001-ME | 153238 | 1/30 |
| 45/0.01 | eRBM-45/1/C/001-ME | 153239 | 1/30 |
| 6/0.03 | eRBM-6/1/C/003-ME | 153240 | 1/30 |
| 8/0.03 | eRBM-8/1/C/003-ME | 153241 | 1/30 |
| 10/0.03 | eRBM-10/1/C/003-ME | 153242 | 1/30 |
| 13/0.03 | eRBM-13/1/C/003-ME | 153243 | 1/30 |
| 16/0.03 | eRBM-16/1/C/003-ME | 153244 | 1/30 |
| 20/0.03 | eRBM-20/1/C/003-ME | 153245 | 1/30 |
| 25/0.03 | eRBM-25/1/C/003-ME | 153246 | 1/30 |
| 32/0.03 | eRBM-32/1/C/003-ME | 153247 | 1/30 |
| 40/0.03 | eRBM-40/1/C/003-ME | 153248 | 1/30 |
| 45/0.03 | eRBM-45/1/C/003-ME | 153249 | 1/30 |
| 6/0.1 | eRBM-6/1/C/01-ME | 153250 | 1/30 |
| 8/0.1 | eRBM-8/1/C/01-ME | 153251 | 1/30 |
| 10/0.1 | eRBM-10/1/C/01-ME | 153252 | 1/30 |
| 13/0.1 | eRBM-13/1/C/01-ME | 153253 | 1/30 |
| 16/0.1 | eRBM-16/1/C/01-ME | 153254 | 1/30 |
| 20/0.1 | eRBM-20/1/C/01-ME | 153255 | 1/30 |
| 25/0.1 | eRBM-25/1/C/01-ME | 153256 | 1/30 |
| 32/0.1 | eRBM-32/1/C/01-ME | 153257 | 1/30 |
| 40/0.1 | eRBM-40/1/C/01-ME | 153258 | 1/30 |
| 45/0.1 | eRBM-45/1/C/01-ME | 153259 | 1/30 |
| 6/0.3 | eRBM-6/1/C/03-ME | 153260 | 1/30 |
| 8/0.3 | eRBM-8/1/C/03-ME | 153261 | 1/30 |
| 10/0.3 | eRBM-10/1/C/03-ME | 153262 | 1/30 |
| 13/0.3 | eRBM-13/1/C/03-ME | 153263 | 1/30 |
| 16/0.3 | eRBM-16/1/C/03-ME | 153264 | 1/30 |
| 20/0.3 | eRBM-20/1/C/03-ME | 153265 | 1/30 |
| 25/0.3 | eRBM-25/1/C/03-ME | 153266 | 1/30 |
| 32/0.3 | eRBM-32/1/C/03-ME | 153267 | 1/30 |
| 40/0.3 | eRBM-40/1/C/03-ME | 153268 | 1/30 |
| 45/0.3 | eRBM-45/1/C/03-ME | 153269 | 1/30 |

SG07911



Specifications | Electronic Combined RCD/MCB Devices eRBM-ME, 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 (950 mm long, black)
- 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:

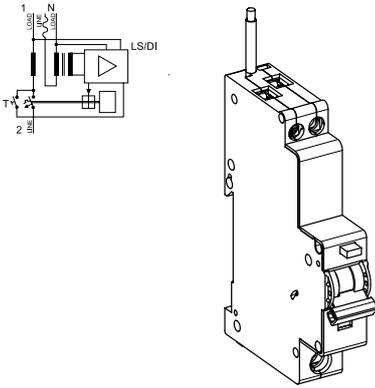
| | | |
|--|----------|----------------|
| Auxiliary switch for subsequent installation | Z-AHK | 248433 |
| Tripping signal switch for subsequent installation | Z-NHK | 248434 |
| Shunt trip release | Z-ASA/.. | 248286, 248287 |
| Tripping module | Z-KAM | 248294 |

Technical Data

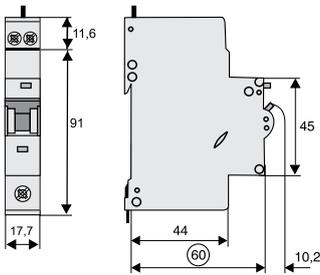
| | | eRBM-ME, 1+N-pole, 1MU |
|---|-----------------|---|
| Electrical | | |
| Design according to | | BS/EN 61009 |
| Current test marks as printed onto the device | | |
| Number of poles | | 1+N-pole, pole switched, N led through (solid neutral) |
| Rated voltage | U_n | 240 VAC |
| Rated frequency | | 50 Hz |
| Rated current | I_n | 6 - 45 A |
| Rated tripping current | $I_{\Delta n}$ | 10, 30, 100, 300 mA |
| Sensitivity | | AC |
| Tripping Characteristic RCD component | | |
| Tripping line voltage dependent | | instantaneous |
| Peak withstand current | | 250 A (8/20 μ s) |
| Rated non-tripping current | $I_{\Delta no}$ | 0.5 $I_{\Delta n}$ |
| 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 | | C |
| Rated breaking capacity | | 10 kA |
| Selectivity class | | 3 |
| Maximum back-up fuse (short-circuit) | | 100 A gL (>6 kA) |
| Endurance | | |
| electrical components | | \geq 4,000 switching operations |
| mechanical components | | \geq 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 mm ² |
| 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)



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](https://www.eaton.com).



Eaton Industries (Austria) GmbH
Scheydgasse 42
1210 Vienna
Austria

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

© 2020 Eaton
All Rights Reserved
Printed in Austria
Publication No. CA019050EN
Article number 302546-MK
August 2020
Graphics: SRA, Schrems

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.

