



Residual current circuit breaker (RCCB), 40A, 2p, 300mA, type AC

Part no. PFIM-40/2/03-MW
Catalog No. 235396

Similar to illustration

Delivery program

| | | | |
|------------------------------|----------------|----|--|
| Basic function | | | Residual current circuit-breakers |
| Number of poles | | | 2 pole |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | I_n | A | 40 |
| Rated short-circuit strength | I_{cn} | kA | 10 |
| Rated fault current | $I_{\Delta N}$ | A | 0.3 |
| Type | | | Type AC |
| Tripping | | A | non-delayed |
| Product range | | | PFIM |
| Sensitivity | | | AC current sensitive |
| Impulse withstand current | | | Partly surge-proof 250 A |

Technical data

Electrical

| | | | |
|------------------------------|----------|----|----------------------|
| Sensitivity | | | AC current sensitive |
| Rated short-circuit strength | I_{cn} | kA | 10 |

Design verification as per IEC/EN 61439

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|--|------------|----|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 40 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 5.4 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature max. | | °C | -25 |
| Operating ambient temperature max. | | °C | 55 |
| | | | Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | |
| 10.2.3.1 Verification of thermal stability of enclosures | | | |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | |
| 10.2.5 Lifting | | | |
| 10.2.6 Mechanical impact | | | |
| 10.2.7 Inscriptions | | | |
| 10.3 Degree of protection of ASSEMBLIES | | | |
| 10.4 Clearances and creepage distances | | | |
| 10.5 Protection against electric shock | | | |
| 10.6 Incorporation of switching devices and components | | | |
| 10.7 Internal electrical circuits and connections | | | |
| 10.8 Connections for external conductors | | | |
| 10.9 Insulation properties | | | |

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|--|--|--|
| 10.9.2 Power-frequency electric strength | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 6.0

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| Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003) | | |
| Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss8.1-27-14-22-01 [AAB906011]) | | |
| Number of poles | | 2 |
| Nominal rated voltage | V | 230 |
| Nominal rated current | A | 40 |
| Rated fault current | A | 0.3 |
| Mounting method | | DIN rail |
| Leakage current type | | AC |
| Selective protection | | No |
| Short-circuit breaking capacity (I _{cn}) | kA | 10 |
| Surge current capacity | kA | 0.25 |
| Frequency | | 50 Hz |
| Additional equipment possible | | Yes |
| Degree of protection (IP) | | IP20 |
| Construction size (in accordance with DIN 43880) | | 1 |
| Width in number of modular spacings | | 2 |
| Built-in depth | mm | 70.5 |
| Short-time delayed tripping | | No |