DATASHEET - PFIM-25/4/003-A-MW



Residual current circuit breaker (RCCB), 25A, 4p, 30mA, type A

Powering Business Worldwide*

Part no. Catalog No. PFIM-25/4/003-A-MW 235435

EL-Nummer (Norway)

0001609340

Similar to illustration

Delivery program

| Delivery hrogiam | | | |
|------------------------------|-----------------|----|--|
| Basic function | | | Residual current circuit-breakers |
| Number of poles | | | 4 pole |
| Application | | | Residual current circuit-breaker for residential and commercial applications |
| Rated current | In | Α | 25 |
| Rated short-circuit strength | I _{cn} | kA | 10 |
| Rated fault current | $I_{\Delta N}$ | Α | 0.03 |
| Туре | | | Type A |
| Tripping | | s | non-delayed |
| Productrange | | | PFIM |
| Sensitivity | | | Pulse-current sensitive |
| Impulse withstand current | | | Partly surge-proof 250 A |

Technical data

Electrical

| Electrical | | | | |
|--|-----------------------|------|---|--|
| Standards | | | IEC/EN 61008 | |
| Rated operational voltage | U _e | V | | |
| | U _e | V AC | | |
| Rated operating voltage | U _e | V AC | 230/400 | |
| Rated frequency | f | Hz | 50 | |
| Limit values of the operating voltage | | | | |
| Test circuit | | V AC | 196 - 264 | |
| Comment for range of the test button | | | 3-phase application without N (400V AC Phase-Phase) not allowed | |
| Sensitivity | | | Pulse-current sensitive | |
| Rated insulation voltage | U_{i} | V | 440 | |
| Rated impulse withstand voltage | U_{imp} | kV | 4 | |
| Rated short-circuit strength | I _{cn} | kA | 10 | |
| Rated making and breaking capacity / Rated residual making and breaking capacity | $I_m / I_{\Delta m}$ | A | 500 | |
| lifespan | | | | |
| Electrical | Operations | | ≧ 4000 | |
| Mechanical | Operations | | ≧ 20000 | |
| References | | | | |
| Auxiliary switch for subsequent installation | | | Z-HK 248432 | |
| Tripping signal contact for subsequent installation | | | Z-NHK 248434 | |
| Remote control and automatic switching device | | | Z-FW/LP 248296 | |
| Compact enclosure | | | KLV-TC-4 276241 | |
| Sealing cover set | | | Z-RC/AK-4MU 101062 | |

Sealing cover s

| Sealing Cover Set | | Z-116/AK-41010 101002 |
|--------------------------|----|---|
| Mechanical | | |
| Standard front dimension | mm | 45 |
| Device height | mm | 80 |
| Built-in width | mm | 70 (4TE) |
| Mounting | | Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 |
| Degree of Protection | | IP20, IP40 with suitable enclosure |
| Terminals top and bottom | | Open mouthed/lift terminals |
| Terminal protection | | DGUV VS3, EN 50274 |

| Terminal cross-section | | |
|--|-----------------|---|
| Solid | mm ² | 1.5 - 35 |
| Stranded | mm^2 | 2 x 16 |
| Thickness of busbar material | mm | 0.8 - 2 |
| Permissible storage and transport temperatures | °C | -35 - +60 |
| Climatic proofing | | 25-55°C/90-95% relative humidity according to IEC 60068-2 |
| Thickness of busbar material | mm | |
| Material thickness | mm | 0.8 - 2 |

Design verification as per IEC/EN 61439

| Design verification as per 120/214 01-33 | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | Α | 25 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 3.1 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °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 | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | | |
| 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 switch gear must be observed. $\label{eq:constraint}$ |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$ |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| | | | |

Technical data ETIM 7.0

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@ss10.0.1-27-14-22-01 [AAB906014])

| (etiess10.0.1-27-14-22-01 [AAD300014]) | | |
|--|---|-----|
| Number of poles | | 4 |
| Rated voltage | V | 400 |
| Rated current | Α | 25 |

| Rated fault current | mA | 30 |
|---|-----|----------|
| Rated insulation voltage Ui | V | 440 |
| Rated impulse withstand voltage Uimp | kV | 4 |
| Mounting method | | DIN rail |
| Leakage current type | | A |
| Selective protection | | No |
| Short-time delayed tripping | | No |
| Short-circuit breaking capacity (Icw) | kA | 10 |
| Surge current capacity | kA | 0.25 |
| Frequency | | 50 Hz |
| Additional equipment possible | | Yes |
| With interlocking device | | Yes |
| Degree of protection (IP) | | IP20 |
| Width in number of modular spacings | | 4 |
| Built-in depth | mm | 70.5 |
| Ambient temperature during operating | °C | -25 - 40 |
| Pollution degree | | 2 |
| Connectable conductor cross section multi-wired | mm² | 1.5 - 16 |
| Connectable conductor cross section solid-core | mm² | 1.5 - 35 |
| | | |