

RCD/MCB, 13A, 100mA, miniature circuit-breaker trip curve B, 3 p,
residual current circuit-breaker trip characteristic: A



Part no. PKPM3-13/3/B/01-Li/A
Catalog No. 196654

Technical data

Electrical

| | | | |
|---------------------------------|-----------------|------|--------------------|
| Types conform to | | | IEC/EN 61009 |
| Current test marks | | | As per inscription |
| Tripping | | s... | non-delayed |
| Rated frequency | f | Hz | 50 |
| Rated fault currents | $I_{\Delta n}$ | mA | 30, 100 |
| Rated non-tripping current | $I_{\Delta no}$ | | 0,5 |
| Rated impulse withstand voltage | U_{imp} | kV | 4 (1.2/50 μ s) |
| Max. admissible back-up fuse | | | |
| Short-circuit | gG/gL | A | 100 |
| Characteristic | | | B |
| Selectivity Class | | | 3 |
| lifespan | | | |
| Electrical | Operations | | ≥ 2000 |
| Mechanical | Operations | | ≥ 10000 |

Mechanical

| | | | |
|--|--|-----|--|
| Standard front dimension | | mm | 45 |
| Device height | | mm | 80 |
| Built-in width | | mm | 70 (4TE) |
| Mounting | | | Tristable slide catch enables removal from existing combination. |
| Degree of Protection | | | IP20, IP40 (when fitted) |
| Terminals top and bottom | | | Twin-purpose terminals |
| Terminal protection | | | finger and hand touch safe, DGUV VS3, EN 50274 |
| Terminal capacity | | | rigid conductors 1 x (1 - 25) mm ² |
| Tightening torque of fixing screws | | N/m | 2 - 2.4 |
| Thickness of busbar material | | mm | 0.8 - 2 |
| Admissible ambient temperature range | | °C | -25 - +40 |
| Permissible storage and transport temperatures | | °C | -35 - +60 |
| Climatic proofing | | | gemäß IEC/EN 61009 |

Design verification as per IEC/EN 61439

| | | | |
|--|------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 13 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| 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 | 40 |
| 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. |

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| 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 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 7.0

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| Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905) | | |
| Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015]) | | |
| Number of poles (total) | | 3 |
| Number of protected poles | | 3 |
| Rated voltage | V | 230 |
| Rated insulation voltage U_i | V | 500 |
| Rated impulse withstand voltage U_{imp} | kV | 4 |
| Rated current | A | 13 |
| Rated fault current | A | 0.1 |
| Leakage current type | | A |
| Current limiting class | | 3 |
| Rated short-circuit breaking capacity acc. EN 61009 | kA | 10 |
| Rated short-circuit breaking capacity IEC 60947-2 | kA | 0 |
| Rated short-circuit breaking capacity I_{cn} acc. EN 61009-1 | kA | 10 |
| Disconnection characteristic | | Short-time delayed |
| Surge current capacity | kA | 3 |
| Voltage type | | AC |
| Frequency | | 50 Hz |
| Release characteristic | | B |
| Concurrently switching N-neutral | | No |
| With interlocking device | | No |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Ambient temperature during operating | °C | -25 - 40 |
| Width in number of modular spacings | | 4 |
| Built-in depth | mm | 69.5 |
| Suitable for flush-mounted installation | | No |
| Anti-nuisance tripping version | | Yes |
| Degree of protection (IP) | | IP20 |
| Connectable conductor cross section solid-core | mm ² | 1 - 25 |
| Connectable conductor cross section multi-wired | mm ² | 1 - 25 |