

RCD/MCB, 6A, 30mA, miniature circuit-breaker trip curve C, 3 p, residual current circuit-breaker trip characteristic: A

Part no. PKPM3-6/3/C/003-LI/A  
 Catalog No. 196649

## 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 $\mu$ s) |
| Max. admissible back-up fuse    |                 |      |                    |
| Short-circuit                   | gG/gL           | A    | 100                |
| Characteristic                  |                 |      | C                  |
| Selectivity Class               |                 |      | 3                  |
| lifespan                        |                 |      |                    |
| Electrical                      | Operations      |      | $\geq 2000$        |
| Mechanical                      | Operations      |      | $\geq 10000$       |

### 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 <sup>2</sup>                    |
| 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  | 6  |
| 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. |

|  |  |  |
|--|--|--|
| 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

|  |                 |                    |
|--|-----------------|--------------------|
| 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               | 6                  |
| Rated fault current  | A               | 0.03               |
| 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   |                 | C                  |
| 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 <sup>2</sup> | 1 - 25             |
| Connectable conductor cross section multi-wired  | mm <sup>2</sup> | 1 - 25             |