DATASHEET - PLSM-B40-MW



Miniature circuit breaker (MCB), 40 A, 1p, characteristic: B

Part no. PLSM-B40-MW Catalog No. 242184

atalog IIO.

EL-Nummer (Norway) 1609107



Delivery program

| Basic function | | | Miniature circuit-breakers | |
|--|-----------------|----|--|--|
| Number of poles | | | 1 pole | |
| Tripping characteristic | | | В | |
| Application | | | Switchgear for residential and commercial applications | |
| Rated current | In | Α | 40 | |
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 10 | |
| Product range | | | PLSM | |

Technical data Electrical

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Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation | In | Α | 40 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 3.4 |
| 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 | 75 |
| | | | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| 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. |
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| 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) / Miniature circuit breaker (MCB) (EC000042) | | | | | |
| Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014]) | | | | | |
| Release characteristic | | | В | | |
| Number of poles (total) | | | 1 | | |
| Number of protected poles | | | 1 | | |
| Rated current | | Α | 40 | | |
| Rated voltage | | V | 230 | | |
| Rated insulation voltage Ui | | V | 440 | | |
| Rated impulse withstand voltage Uimp | | kV | 4 | | |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V | | kA | 10 | | |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V | | kA | 10 | | |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | | kA | 0 | | |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | | kA | 0 | | |
| Voltage type | | | AC | | |
| Frequency | | Hz | 50 - 60 | | |
| Current limiting class | | | 3 | | |
| Suitable for flush-mounted installation | | | No | | |
| Concurrently switching N-neutral | | | No | | |
| Over voltage category | | | 3 | | |
| Pollution degree | | | 2 | | |
| Additional equipment possible | | | Yes | | |
| Width in number of modular spacings | | | 1 | | |
| Built-in depth | | mm | 70.5 | | |
| Degree of protection (IP) | | | IP20 | | |
| Ambient temperature during operating | | °C | -25 - 75 | | |
| Connectable conductor cross section multi-wired | | mm² | 1 - 25 | | |
| Connectable conductor cross section solid-core | | mm² | 1 - 25 | | |