DATASHEET - PLS6-D12-MW



Miniature circuit breaker (MCB), 12A, 1p, type D characteristic

Part no. PLS6-D12-MW Catalog No. 242701



Similar to illustration

| Delivery program | | | |
|--|-----------------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 1 pole |
| Tripping characteristic | | | D |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | In | Α | 12 |
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 6 |
| Product range | | | PLS6 |

Technical data

Electrical

|--|

Design verification as per IEC/EN 61439

| Design vernication as per IEG/EN 01433 | | | |
|--|------------|----|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | Α | 12 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 1.7 |
| 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. |
| 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

Ambient temperature during operating

Connectable conductor cross section multi-wired

Connectable conductor cross section solid-core

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]) D Release characteristic Number of poles (total) Number of protected poles Rated current Α 12 Rated voltage ٧ 230 Rated insulation voltage Ui ٧ 440 Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 $\rm V$ kΑ 6 Rated short-circuit breaking capacity Icn EN 60898 at 400 $\rm V$ kΑ 6 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 $\rm V$ kΑ 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kΑ 0 Voltage type AC Frequency Hz 50 - 60 Current limiting class 3 Suitable for flush-mounted installation No Concurrently switching N-neutral No 3 Over voltage category 2 Pollution degree Additional equipment possible Yes Width in number of modular spacings Built-in depth mm 70.5 Degree of protection (IP) IP20

°C

mm²

 mm^2

-25 - 55

1 - 25

1 - 25