Miniature circuit breaker (MCB), 20 A, 3p+N, characteristic: C



Part no. PLS6-C20/3N-MW 243019

| General specifications | |
|---|---|
| Product name | Eaton Moeller series xPole - PLS6/M MCB |
| Part no. | PLS6-C20/3N-MW |
| EAN | 4015082430191 |
| Product Length/Depth | 85 millimetre |
| Product height | 73 millimetre |
| Product width | 70 millimetre |
| Product weight | 0.456 kilogram |
| Compliances | RoHS conform |
| Certifications | CE |
| Product Tradename | xPole - PLS6/M |
| Product Type | МСВ |
| Product Sub Type | None |
| Delivery program | |
| Application | Switchgear for residential and commercial applications xPole - Switchgear for residential and commercial applications |
| Number of poles | Three-pole + N |
| Number of poles (total) | 4 |
| Number of poles (protected) | 3 |
| Tripping characteristic | С |
| Release characteristic | С |
| Amperage Rating | 20 A |
| Туре | Miniature circuit breaker PLS6 |
| Technical Data - Electrical | |
| Voltage type | AC |
| Rated operational voltage (Ue) - max | 400 V |
| Rated insulation voltage (Ui) | 440 V |
| Rated impulse withstand voltage (Uimp) | 4 kV |
| Frequency rating - min | 50 Hz |
| Frequency rating - max | 60 Hz |
| Rated switching capacity (IEC/EN 60898-1) | 6 kA |
| Rated short-circuit breaking capacity (EN 60898) at 230 V | 6 kA |
| Rated short-circuit breaking capacity (EN 60898) at 400 V | 6 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | 0 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | 0 kA |
| Overvoltage category | III |
| Pollution degree | 2 |
| Technical Data - Mechanical | |
| Width in number of modular spacings | 4 |
| Built-in depth | 70.5 mm |
| Degree of protection | IP20 |
| Connectable conductor cross section (solid-core) - min | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | 25 mm ² |
| Design verification as per IEC/EN 61439 - technical data | |
| Rated operational current for specified heat dissipation (In) | 20 A |
| Heat dissipation per pole, current-dependent | 0 W |

| Static heat dissipation, non-current-dependent Heat dissipation capacity Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 | 0 W 0 W -25 °C 75 °C |
|--|--|
| Ambient operating temperature - min Ambient operating temperature - max Design verification as per IEC/EN 61439 | -25 °C |
| Ambient operating temperature - max Design verification as per IEC/EN 61439 | |
| Design verification as per IEC/EN 61439 | 75 °C |
| | |
| | |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 b observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must b observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| Additional information | |
| Current limiting class | 3 |
| Features | Additional equipment possible Concurrently switching N-neutral |
| Special features | Ambient temperature hint: a 1 $^{\circ}\text{C}$ increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | Miniature circuit breaker PLS6 |

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019])

| mm | 70.5 C |
|----|--------------------------|
| | |
| | |
| | 4 |
| | 3 |
| А | 20 |
| V | 400 |
| V | 440 |
| kV | 4 |
| kA | 6 |
| | AC |
| kA | 6 |
| kA | 0 |
| kA | 0 |
| Hz | 50 - 60 |
| | V V kV kA kA |

| Power loss | W | 10.5 |
|---|-----|----------|
| Current limiting class | | 3 |
| Flush-mounted installation | | No |
| Concurrently switching neutral conductor | | Yes |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 4 |
| 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 |
| Explosion-proof | | No |