

Miniature circuit breaker (MCB), 50 A, 3p, characteristic: C

Part no. **PL6-C50/3**
286606

| General specifications | | |
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| Product name | | Eaton Moeller series xPole - PL6 MCB |
| Part no. | | PL6-C50/3 |
| EAN | | 4015082866068 |
| Product Length/Depth | | 85 millimetre |
| Product height | | 73 millimetre |
| Product width | | 53.1 millimetre |
| Product weight | | 0.36 kilogram |
| Compliances | | RoHS conform |
| Product Tradename | | xPole - PL6 |
| Product Type | | MCB |
| 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 |
| Number of poles (total) | | 3 |
| Number of poles (protected) | | 3 |
| Tripping characteristic | | C |
| Release characteristic | | C |
| Amperage Rating | | 50 A |
| Type | | Miniature circuit breaker PL6 |
| 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 | | 3 |
| 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) | | 50 A |
| Heat dissipation per pole, current-dependent | | 0 W |
| Equipment heat dissipation, current-dependent | | 14.9 W |

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| Static heat dissipation, non-current-dependent | | 0 W |
| Heat dissipation capacity | | 0 W |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 75 °C |
| Design verification as per IEC/EN 61439 | | |
| 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 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. |
| Additional information | | |
| Current limiting class | | 3 |
| Features | | Additional equipment possible |
| Special features | | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | | Miniature circuit breaker PL6 |

Technical data ETIM 8.0

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| 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]) | | |
| Built-in depth | mm | 70.5 |
| Release characteristic | | C |
| Number of poles (total) | | 3 |
| Number of protected poles | | 3 |
| Rated current | A | 50 |
| Rated voltage | V | 400 |
| Rated insulation voltage U_i | V | 440 |
| Rated impulse withstand voltage U_{imp} | kV | 4 |
| Rated short-circuit breaking capacity I_{cn} according to EN 60898 at 230 V | kA | 6 |
| Voltage type | | AC |
| Rated short-circuit breaking capacity I_{cn} according to EN 60898 at 400 V | kA | 6 |
| Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 230 V | kA | 0 |
| Rated short-circuit breaking capacity I_{cu} according to IEC 60947-2 at 400 V | kA | 0 |
| Frequency | Hz | 50 - 60 |
| Current limiting class | | 3 |
| Flush-mounted installation | | No |

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| Concurrently switching neutral conductor | | | No |
| Over voltage category | | | 3 |
| Pollution degree | | | 2 |
| Additional equipment possible | | | Yes |
| Width in number of modular spacings | | | 3 |
| Degree of protection (IP) | | | IP20 |
| Ambient temperature during operating | | °C | -25 - 75 |
| Connectable conductor cross section multi-wired | | mm ² | 1 - 25 |
| Connectable conductor cross section solid-core | | mm ² | 1 - 25 |
| Explosion-proof | | | No |