Miniature circuit breaker (MCB), 100A, 3p, C-Char



Part no. AZ-3-C100 211806

EL Number 1601052

(Norway)

| (Norway) | |
|--|---|
| General specifications | |
| Product name | Eaton Moeller series xEffect - AZ MCB |
| Part no. | AZ-3-C100 |
| EAN | 4015082118068 |
| Product Length/Depth | 90 millimetre |
| Product height | 75 millimetre |
| Product width | 81 millimetre |
| Product weight | 0.69 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC/EN 60947-2 IEC 61373 EN45545-2 |
| Product Tradename | xEffect - AZ MCB |
| Product Type | MCB |
| Product Sub Type | None |
| Delivery program | |
| Application | Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications |
| Number of poles | Three-pole |
| Number of poles (total) | 3 |
| Number of poles (protected) | 3 |
| Tripping characteristic | С |
| Release characteristic | С |
| Amperage Rating | 100 A |
| Туре | AZ Miniature circuit breaker |
| Technical Data - Electrical | |
| Voltage type | AC |
| Voltage rating | 230 V AC / 400 V AC |
| Voltage rating at DC | 60 V DC (per pole) |
| 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 60947-2) | 20 kA |
| Operational switching capacity | 20 kA |
| Rated short-circuit breaking capacity (EN 60898) at 230 V | 0 kA |
| Rated short-circuit breaking capacity (EN 60898) at 400 V | 0 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | 20 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | 20 kA |
| Admissible back-up fuse - max | 200 A gL/gG |
| Selectivity class | 3 |
| Lifespan, electrical | 10000 operations |
| Overvoltage category | III |
| Pollution degree | 2 |
| Direction of incoming supply | As required |
| Technical Data - Mechanical | |
| Frame | 45 mm |

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|--|--|
| Enclosure width | 90 mm |
| Width in number of modular spacings | 4.5 |
| Built-in depth | 75 mm |
| Mounting width per pole | 27 mm |
| Mounting width | 27 mm |
| Mounting Method | Top-hat rail IEC/EN 60715 |
| Degree of protection | IP20 IP40 (when fitted) |
| Terminals (top and bottom) | Lift terminals |
| Connectable conductor cross section (solid-core) - min | 2.5 mm ² |
| Connectable conductor cross section (solid-core) - max | 50 mm ² |
| Connectable conductor cross section (multi-wired) - min | 2.5 mm ² |
| Connectable conductor cross section (multi-wired) - max | 50 mm ² |
| Terminal capacity (control cable) | 2.5 mm ² - 50 mm ² |
| Terminal protection | Finger and hand touch safe, DGUV VS3, EN 50274 |
| Design verification as per IEC/EN 61439 - technical data | |
| Rated operational current for specified heat dissipation (In) | 100 A |
| Heat dissipation per pole, current-dependent | 0 W |
| Equipment heat dissipation, current-dependent | 27.4 W |
| Static heat dissipation, non-current-dependent | 0 W |
| Heat dissipation capacity | 0 W |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 55 °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 Resists 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. |
| | The device meets the requirements, provided the information in the instruction |
| 10.13 Mechanical function | leaflet (IL) is observed. |
| 10.13 Mechanical function Additional information | leaflet (IL) is observed. |
| | leaflet (IL) is observed. |
| Additional information | |
| Additional information Current limiting class | 3 |

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])

| [AAB905019]) | , device / iviiliature cii | rcuit breaker system (MCB) / Miniature circuit breaker (MCB) (eci@ss13-27-14-19-01 |
|---|----------------------------|--|
| Built-in depth | mm | 75 |
| Release characteristic | | С |
| Number of poles (total) | | 3 |
| Number of protected poles | | 3 |
| Rated current | Α | 100 |
| Rated voltage | V | 400 |
| Rated insulation voltage Ui | V | 440 |
| Rated impulse withstand voltage Uimp | kV | 4 |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V | kA | 0 |
| Voltage type | | AC |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V | kA | 0 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V | kA | 20 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V | kA | 20 |
| Frequency | Hz | 50 - 60 |
| Power loss | W | |
| Current limiting class | | 3 |
| Flush-mounted installation | | No |
| Concurrently switching neutral conductor | | No |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 4.5 |
| Degree of protection (IP) | | IP20 |
| Ambient temperature during operating | °C | -25 - 55 |
| Connectable conductor cross section multi-wired | mm² | 2.5 - 50 |
| Connectable conductor cross section solid-core | mm² | 2.5 - 50 |
| Explosion-proof | | No |