

Miniature circuit breaker (MCB), 1.6 A, 1p, characteristic: Z

Part no. FAZ-Z1,6/1
278619

EL Number
(Norway) 1695247

| General specifications | | |
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| Product name | | Eaton Moeller series xEffect - FAZ MCB |
| Part no. | | FAZ-Z1,6/1 |
| EAN | | 4015082786199 |
| Product Length/Depth | | 80 millimetre |
| Product height | | 75.5 millimetre |
| Product width | | 17.7 millimetre |
| Product weight | | 0.112 kilogram |
| Compliances | | UL CSA09 (with supplementary protector only) RoHS conform |
| Certifications | | IEC/EN 60947-2 UL 1077 IEC/EN 60898 CE marking CSA (File No. 204453) UL (File No. E177451) CSA (Class No. 3215-30) North America (UL recognized, CSA certified) UL (Category Control Number QVNU2, QVNU8) CSA-C22.2 No. 235 IEC 61373 EN45545-2 |
| Product Tradename | | xEffect - FAZ |
| Product Type | | MCB |
| Product Sub Type | | None |
| Delivery program | | |
| Application | | Branch circuits, not as BCPD Switchgear for industrial and advanced commercial applications xEffect - Switchgear for industrial and advanced commercial applications |
| Number of poles | | Single-pole |
| Number of poles (total) | | 1 |
| Number of poles (protected) | | 1 |
| Tripping characteristic | | Z |
| Release characteristic | | Z |
| Amperage Rating | | 1.6 A |
| Type | | FAZ Miniature circuit breaker |
| Technical Data - Electrical | | |
| Voltage type | | AC |
| Voltage rating | | 240 V AC / 415 V AC |
| Voltage rating at DC | | 60 V DC (per pole) |
| Voltage rating (UL CSA 13) | | 277 V AC; 48 V DC |
| Rated operational voltage (Ue) - max | | 230 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) | | 10 kA |
| Operational switching capacity | | 7.5 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 | | 10 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | | 10 kA |
| Admissible back-up fuse - max | | 125 A gL/gG |

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| 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 |
| Enclosure width | | 80 mm |
| Width in number of modular spacings | | 1 |
| Built-in depth | | 70.5 mm |
| Mounting width per pole | | 17.5 mm |
| Mounting width | | 17.5 mm |
| Mounting Method | | Top-hat rail IEC/EN 60715 |
| Mounting position | | As required |
| Degree of protection | | IP20 IP20 (IEC) UL/CSA Type: - IP40 (when fitted) |
| Terminals (top and bottom) | | Twin-purpose terminals |
| 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 |
| Terminal capacity of screw terminals for main cable | | 10 mm ² (2x) |
| Terminal capacity (control cable) | | 25 mm ² (1x) |
| Terminal protection | | Finger and hand touch safe, DGUV VS3, EN 50274 |
| Busbar material thickness | | 0.8 mm - 2 mm |
| Design verification as per IEC/EN 61439 - technical data | | |
| Rated operational current for specified heat dissipation (In) | | 1.6 A |
| Heat dissipation per pole, current-dependent | | 0 W |
| Equipment heat dissipation, current-dependent | | 2.6 W |
| 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. |

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| 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 | | FAZ Miniature circuit breaker |

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

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|---|-----------------|----------|
| Built-in depth | mm | 70.5 |
| Release characteristic | | Z |
| Number of poles (total) | | 1 |
| Number of protected poles | | 1 |
| Rated current | A | 1.6 |
| Rated voltage | V | 230 |
| 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 | 10 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V | kA | 10 |
| Frequency | Hz | 50 - 60 |
| Power loss | W | 2.6 |
| 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 | | 1 |
| 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 |