


Miniature circuit breaker (MCB), 15A, 1p, type C characteristic


Part no. FAZ-C15/1
Catalog No. 278560
Alternate Catalog No. FAZ-C15/1
EL-Nummer (Norway) 0001691086

Similar to illustration

Delivery program

| | | | |
|---|----------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 1 pole |
| Tripping characteristic | | | C |
| Application | | | Switchgear for industrial and advanced commercial applications |
| Rated current | I_n | A | 15 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 15 |
| Product range | | | FAZ |

Technical data
Electrical

| | | | |
|---|----------|------|--------------------------------|
| Standards | | | IEC/EN 60947-2 IEC/EN 60898 |
| Rated operational voltage | U_e | V | |
| | U_e | V AC | 240/415 |
| Rated voltage according to UL | U_n | V AC | 277 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 15 |
| Breaking capacity according to UL | | kA | 10 (UL1077) |
| Max operational voltage according to IEC/EN 60947-2 | | V AC | 254 |
| Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) | I_{cu} | kA | 10 |
| Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) | I_{cs} | | 7,5 kA |
| Rated voltage according to IEC/EN 60898-1 | U_n | V AC | 240 |
| Rated switching capacity according to IEC/EN 60898-1 | I_{cn} | kA | 10 |
| Rated service short-circuit breaking capacity according to IEC/EN 60898-1 | I_{cs} | | 7,5 kA |

Design verification as per IEC/EN 61439

| | | | |
|--|------------|----|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 15 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 2.1 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -40 |
| 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 | | | |
| 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. |

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| 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

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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) (ecI@ss10.0.1-27-14-19-01 [AAB905014]) | | | |
| Release characteristic | | | C |
| Number of poles (total) | | | 1 |
| Number of protected poles | | | 1 |
| Rated current | | A | 15 |
| Rated voltage | | V | 230 |
| Rated insulation voltage Ui | | V | 440 |
| Rated impulse withstand voltage Uimp | | kV | 4 |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V | | kA | 10 |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V | | kA | 10 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | | kA | 15 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | | kA | 15 |
| Voltage type | | | AC |
| Frequency | | Hz | 50 - 60 |
| Current limiting class | | | 3 |
| Suitable for flush-mounted installation | | | No |
| Concurrently switching N-neutral | | | No |
| Over voltage category | | | 3 |
| Pollution degree | | | 2 |
| Additional equipment possible | | | Yes |
| Width in number of modular spacings | | | 1 |
| Built-in depth | | mm | 70.5 |
| 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 |

Approvals

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| Product Standards | | IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking |
| UL File No. | | E177451 |
| UL Category Control No. | | QVNU2, QVNU8 |
| CSA File No. | | 204453 |

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| CSA Class No. | | 3215-30 |
| North America Certification | | UL recognized, CSA certified |
| Conditions of Acceptability | | Supplementary Protector only |
| Suitable for | | Branch Circuits; not as BCPD |
| Current Limiting Circuit-Breaker | | No |
| Max. Voltage Rating | | 277 VAC; 48 VDC |
| Degree of Protection | | IEC: IP20; UL/CSA Type: - |

Additional product information (links)

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| Temperature dependency, derating | https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf |
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