DATASHEET - FAZ-B5/1-NA



Miniature circuit breaker (MCB), 5 A, 1p, characteristic: B

Part no. FAZ-B5/1-NA Catalog No. 132419 Alternate Catalog FAZ-B5/1-NA

No.

EL-Nummer 1691514

(Norway)



Similar to illustration

| Del | ivery | pro | gram |
|-----|-------|-----|------|
|-----|-------|-----|------|

| Basic function | | | Miniature circuit-breakers |
|---|-----------------|----|--|
| Number of poles | | | 1 pole |
| Tripping characteristic | | | В |
| Application | | | Switchgear for export to North America (UL-listed) |
| Rated current | In | Α | 5 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Product range | | | FAZ-NA |

Technical data

Electrical

| Standards | | | UL 489, CSA C22.2 No. 5 IEC 60947-2 |
|---|-----------------|------|---|
| Rated operational voltage | U _e | V | |
| | U _e | V AC | 277/480 Y |
| | | V DC | 60 |
| Rated voltage according to IEC/EN 60947-2 | Un | V AC | 254 |
| Rated voltage according to UL | Un | V AC | 277 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Breaking capacity according to UL | | kA | 10 (UL489) |
| Characteristic | | | B, C, D |
| Selectivity Class | | | 3 |
| lifespan | | | |
| Lifespan | Operations | | > 20000 |
| Direction of incoming supply | | | as required |
| Mechanical | | | |
| Standard front dimension | | mm | 45 |
| Enclosure height | | mm | 105 |
| Mounting width per pole | | mm | 17.7 |
| Mounting | | | IEC/EN 60715 top-hat rail |
| Degree of Protection | | | IP20, IP40 (when fitted) |
| Terminals top and bottom | | | Twin-purpose terminals |
| Terminal protection | | | Finger and back-of-hand proof to BGV A2 |
| Tightening torque of fixing screws | | N/m | max. 2.4 UL: #18-12 AWG: 2.4 Nm (21 lb-in) #10-8 AWG: 2.8 Nm (25 lb-in) #6 AWG: 4 Nm (36 lb-in) |
| Mounting position | | | As required |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|----|---|---|
| Rated operational current for specified heat dissipation | In | Α | 5 |

| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
|---|-------------------|----|--|
| Equipment heat dissipation, current-dependent | P _{vid} | W | 1.8 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 75 |
| | | | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| EC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 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. |
| 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 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. |

Technical data ETIM 7.0

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@ss10.0.1-27-14-19-01 [AAB905014])

| (ecl@ss10.0.1-27-14-19-01 [AAB905014]) | | · · · · · · · · · · · · · · · · · · · |
|--|----|---------------------------------------|
| Release characteristic | | В |
| Number of poles (total) | | 1 |
| Number of protected poles | | 1 |
| Rated current | Α | 5 |
| Rated voltage | V | 240 |
| 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 | 0 |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V | kA | 0 |
| 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 | mm² | 1 - 25 |
| Connectable conductor cross section solid-core | mm² | 1 - 25 |

Approvals

| Product Standards | IEC/EN 60947-2; EN 45545-2; IEC 61373; UL 489; CSA-C22.2 No. 5-09; CE marking |
|--------------------------------------|---|
| UL File No. | E235139 |
| UL Category Control No. | DVIQ |
| CSA File No. | 204453 |
| CSA Class No. | 1432-01 |
| North America Certification | UL listed, CSA certified |
| Specially designed for North America | Yes, suitable as BCPD |
| Suitable for | Feeder circuits, branch circuits |
| Current Limiting Circuit-Breaker | Yes |
| Max. Voltage Rating | ≤ 32 A |
| Degree of Protection | IEC: IP20, UL/CSA Type: - |

Additional product information (links)

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