DATASHEET - FAZ-B3/3



Miniature circuit breaker (MCB), 3A, 3p, type B characteristic

Powering Business Worldwide*

Part no. FAZ-B3/3 Catalog No. 278837 Alternate Catalog FAZ-B3/3

No.

EL-Nummer 0001691031

(Norway)

Similar to illustration

Delivery program

| Delivery program | | | |
|---|-----------------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 3 pole |
| Tripping characteristic | | | В |
| Application | | | Switchgear for industrial and advanced commercial applications |
| Rated current | In | Α | 3 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Product range | | | FAZ |

Technical data

| | | IEC/EN 60947-2 IEC/EN 60898 |
|-----------------|------------------|---|
| U _e | V | |
| U _e | V AC | 240/415 |
| U_n | V AC | 480Y/277 |
| I _{cu} | kA | 15 |
| | kA | 10 (UL1077) |
| | V AC | 440 |
| I _{cu} | kA | 10 |
| I _{cs} | | 7,5 kA |
| Un | V AC | 415 |
| I _{cn} | kA | 10 |
| I _{cs} | | 7,5 kA |
| | Ue Un Icu Ics Un | U _e VAC U _n VAC I _{cu} kA kA VAC) I _{cu} kA U _n VAC I _{cs} kA |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation | In | Α | 3 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 7.6 |
| 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 | | | 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 $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($ | | | 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 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

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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

 Release characteristic
 B

 Number of poles (total)
 3

 Number of protected poles
 3

 Rated current
 A

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB)

٧ 400 Rated voltage 440 Rated insulation voltage Ui ٧ Rated impulse withstand voltage Uimp kV 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 V $\,$ kΑ 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 $\rm V$ kΑ 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kΑ 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kΑ 15 Voltage type AC Hz Frequency 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 3
Built-in depth 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; 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 |
| 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 | 480Y/277 VAC |
| 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.pdf |