DATASHEET - FAZT-C20/4



Miniature circuit breaker (MCB), 20 A, 4p, characteristic: C



FAZT-C20/4 Part no. Catalog No. 240966 Alternate Catalog FAZT-C20/4

EL-Nummer 1605675

(Norway)

Delivery program

| | | Miniature circuit-breakers |
|-----------------|----------------|--|
| | | 4 pole |
| | | С |
| | | Switchgear for industrial and advanced commercial applications |
| In | Α | 20 |
| I _{cu} | kA | 25 |
| | | FAZ-T |
| | I _n | Ι Ι.Δ |

Technical data

Electrical

| Standards | | | IEC/EN 60947-2 EN 45545-2; IEC 61373 |
|---|-----------------|------|---|
| Rated voltage according to IEC/EN 60947-2 | Un | V AC | 415 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 25 |
| Rated service short-circuit breaking capacity according to IEC/EN 60947-2 | I _{cs} | | 12,5 kA |
| Max operational voltage according to IEC/EN 60947-2 | | V AC | 440 |
| Rated switching capacity according to IEC/EN 60947-2 (max operational voltage) | Icu | kA | 15 |
| Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) | I _{cs} | | 7,5 kA |
| Max operational voltage DC according to IEC/EN 60947-2 | | V DC | 60/pole |
| Rated voltage according to IEC/EN 60898-1 | U_{n} | V AC | 415 |
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 15 |
| Rated service short-circuit breaking capacity according to IEC/EN 60898-1 | I _{cs} | | 7,5 kA |
| Rated insulation voltage | Ui | V | 440 |
| Rated frequency | f | Hz | 50/60 |
| Characteristic | | | B, C, D |
| Direction of incoming supply | | | as required |
| lifespan | | | |
| Electrical | Operations | | ≧ 4000 |
| Mechanical | Operations | | ≧ 10000 |
| Mechanical | | | |

| Standard front dimension mm 45 | |
|---|--------------------------|
| | |
| Enclosure height mm 80 | |
| Mounting width per pole mm 17.5 | |
| Mounting Quick attachment with 3 latch positions for to | op-hat rail IEC/EN 60715 |
| Degree of Protection IP20 | |
| Terminals top and bottom Twin-purpose terminals | |
| Terminal protection Finger- and back-of-hand proof according to | BGV A3 and ÖVE-EN 6 |
| Terminal capacities mm ² 1 - 25 | |
| Tightening torque of fixing screws N/m max. 2.4 | |
| Thickness of busbar material mm 0.8 (exept N 0.5 SU) | |
| 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 | 20 |

| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
|---|-------------------|----|--|
| Equipment heat dissipation, current-dependent | P_{vid} | W | 13.1 |
| 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 |
| 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 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. |

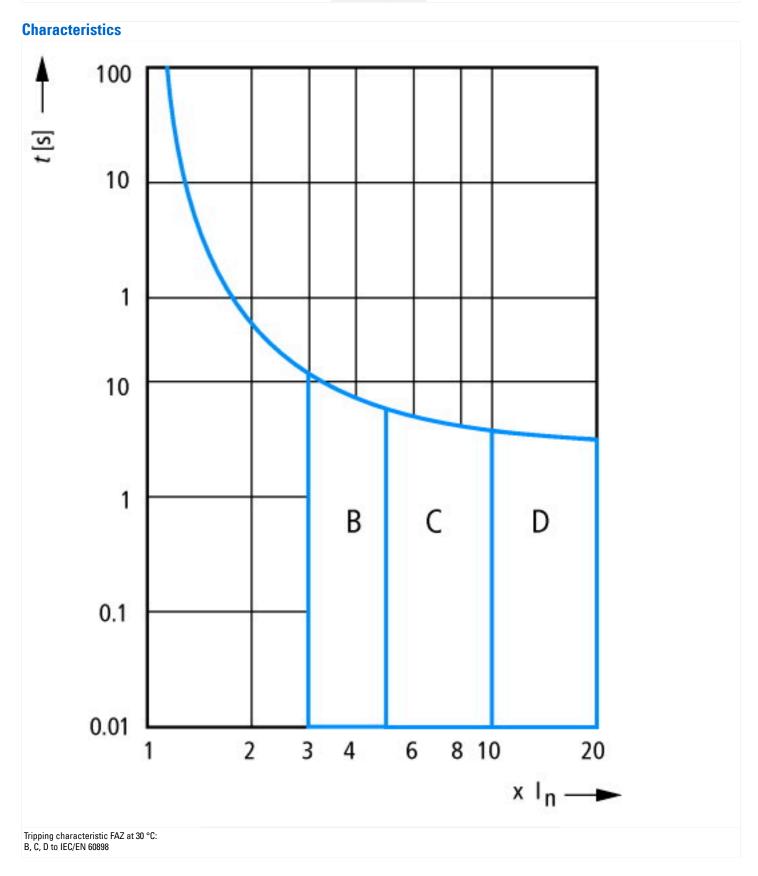
Technical data ETIM 7.0

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

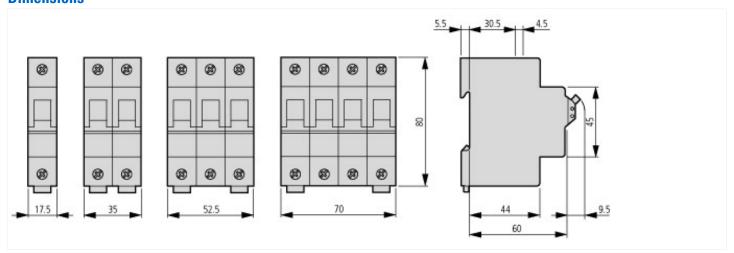
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss10.0.1-27-14-19-01 [AAB905014])

| , | 500. 51 500.01 (110.2), minutais 51 500.01 (110.2) |
|----|--|
| | С |
| | 4 |
| | 4 |
| А | 20 |
| V | 230 |
| V | 440 |
| kV | 4 |
| kA | 15 |
| kA | 15 |
| kA | 20 |
| kA | 20 |
| | AC |
| Hz | 50 - 60 |
| | 3 |
| | No |
| | Yes |
| | A V V kV kA kA |

| Over voltage category | | 3 |
|---|-----|----------|
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 4 |
| 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 |



Dimensions



Additional product information (links)

Temperature dependency, derating

 $https://www.eaton.com/content/dam/eaton/technical documentation/technical-data-tables/Derating\ table\ FAZ_T.pdf$