DATASHEET - FAZT-D32/2



Miniature circuit breaker (MCB), 32A, 2p, D-Char, AC

Powering Business Worldwide*

Part no. FAZT-D32/2 Catalog No. 142491 Alternate Catalog FAZT-D32/2

No.

EL-Nummer 1605529

(Norway)

Similar to illustration

Delivery program

| Delivery program | | | |
|---|-----------------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 2 pole |
| Tripping characteristic | | | D |
| Application | | | Switchgear for industrial and advanced commercial applications |
| Rated current | In | Α | 32 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Product range | | | FAZ-T |

Technical data

Electrical

| Standards IECKN 80847-2 Rated voltage according to IEC/KN 60947-2 Un V AC 240/415 Rated switching capacity acc. to IEC/EN 60947-2 Igual KA 15 Rated insulation voltage Up V AC 40 Rated frequency Face Subject on Subject on Subject of Incoming supply HZ 50% Direction of incoming supply Subject on Subj | Liberious | | | |
|--|---|-----------------|--------|---|
| Rated switching capacity acc. to IEC/EN 60947-2 Rated insulation voltage Rated frequency Characteristic Direction of incoming supply lifespan Electrical Mechanical Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminal stop and bottom Terminal protection Terminal capacities Tightening torque of fixing screws | Standards | | | IEC/EN 60947-2 |
| Rated insulation voltage Rated frequency F | Rated voltage according to IEC/EN 60947-2 | Un | V AC | 240/415 |
| Rated frequency Characteristic Chiracteristic Chira | Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Characteristic Direction of incoming supply lifespan Electrical Mechanical Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal protection Terminal capacities Tightening torque of fixing screws Thickness of busbar material B, C, D as required B, C, D Above Box 4000 Box | Rated insulation voltage | Ui | V | 440 |
| Direction of incoming supply lifespan Electrical Mechanical Mechanical Standard front dimension Enclosure height Mounting width per pole Mounting Degree of Protection Terminal stop and bottom Terminal capacities Tightening torque of fixing screws Thickness of busbar material A 0 perations Q operations Q o | Rated frequency | f | Hz | 50/60 |
| lifespan Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical 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 top-hat rail IEC/EN 60715 Degree of Protection IP20 Terminals top and bottom Twin-purpose terminals Terminal protection Twin-purpose terminals Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material 0.8 (exept N 0.5 SU) | Characteristic | | | B, C, D |
| Electrical Operations ≥ 4000 Mechanical Operations ≥ 10000 Mechanical Standard front dimension | Direction of incoming supply | | | as required |
| Mechanical Operations ≥ 10000 Mechanical 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 top-hat rail IEC/EN 60715 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 mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU) | lifespan | | | |
| 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 top-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 mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU) | Electrical | Operations | | ≧ 4000 |
| Standard front dimension mm 45 Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Degree of Protection Iteminals top and bottom Terminal protection Terminal capacities mm² 1-25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 45 mm 45 mm 80 Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 mm² 1-25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material 0.8 (exept N 0.5 SU) | Mechanical | Operations | | ≧ 10000 |
| Enclosure height mm 80 Mounting width per pole mm 17.5 Mounting Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 Degree of Protection IP20 Terminals top and bottom Terminal protection Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU) | Mechanical | | | |
| Mounting width per pole Mounting Mounting Degree of Protection Terminals top and bottom Terminal protection Terminal capacities Terminal capacities Tightening torque of fixing screws Thickness of busbar material Tights and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Toghts and back of busbar with 3 latch positions for top-hat rail IEC/EN 60715 IP20 I | Standard front dimension | | mm | 45 |
| Mounting Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Terminals top and bottom Terminal protection Terminal protection Terminal capacities Terminal capacities Tightening torque of fixing screws Thickness of busbar material Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 IP20 Twin-purpose terminals Finger- and back-of-hand proof according to BGV A3 and ÕVE-EN 6 Terminal capacities N/m max. 2.4 Thickness of busbar material Mm 0.8 (exept N 0.5 SU) | Enclosure height | | mm | 80 |
| Degree of Protection Terminals top and bottom Terminal protection Terminal protection Terminal capacities Terminal capacities Terminal capacities Tightening torque of fixing screws Thickness of busbar material Terminal capacities N/m max. 2.4 Thickness of busbar material Tightening torque of fixing screws Tightening torque of fixing screws Tightening torque of fixing screws Thickness of busbar material | Mounting width per pole | | mm | 17.5 |
| Terminals top and bottom Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities mm² 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 | | | Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 |
| Terminal protection Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 Terminal capacities mm² 1 - 25 Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU) | Degree of Protection | | | IP20 |
| 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) | Terminals top and bottom | | | Twin-purpose terminals |
| Tightening torque of fixing screws N/m max. 2.4 Thickness of busbar material mm 0.8 (exept N 0.5 SU) | Terminal protection | | | Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6 |
| Thickness of busbar material mm 0.8 (exept N 0.5 SU) | Terminal capacities | | mm^2 | 1 - 25 |
| | Tightening torque of fixing screws | | N/m | max. 2.4 |
| Mounting position As required | 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 | 32 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 7.4 |
| 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 |

| C/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 lobserved. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must lobserved. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

Connectable conductor cross section multi-wired

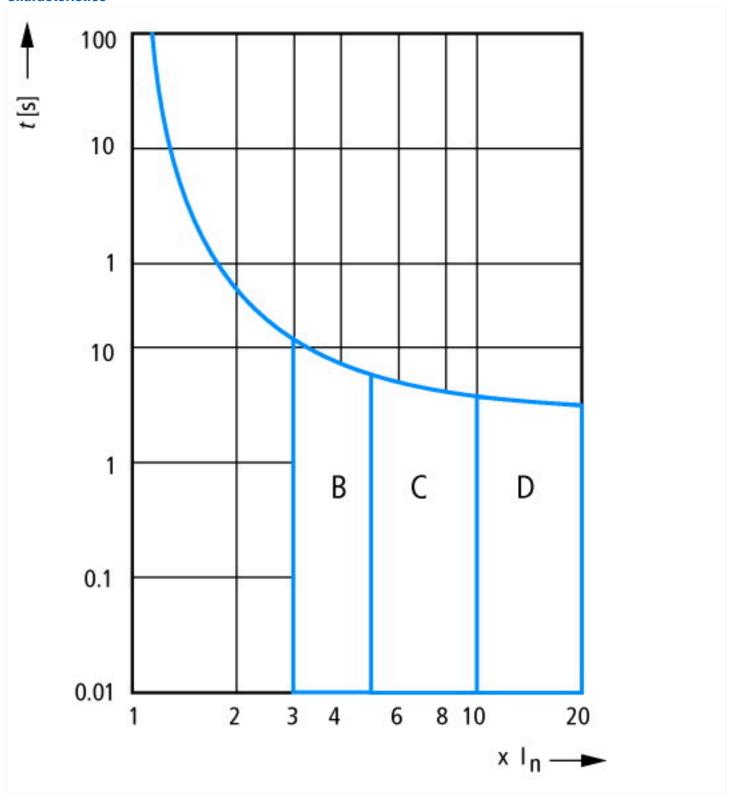
Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

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]) D Release characteristic 2 Number of poles (total) Number of protected poles 2 Rated current Α 32 ٧ 230 Rated voltage ٧ 440 Rated insulation voltage Ui kV Rated impulse withstand voltage Uimp 4 Rated short-circuit breaking capacity Icn EN 60898 at 230 $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icn EN 60898 at 400 $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 ${
m V}$ kA 25 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 $\rm V$ kΑ 25 Voltage type AC Frequency Hz 50 - 60 3 **Current limiting class** Suitable for flush-mounted installation No Concurrently switching N-neutral No 3 Over voltage category 2 Pollution degree Additional equipment possible Yes Width in number of modular spacings 2 Built-in depth mm 70.5 Degree of protection (IP) IP20 °C -25 - 75 Ambient temperature during operating

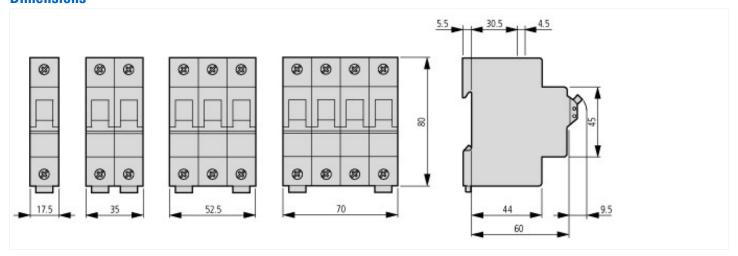
mm²

1 - 25

Characteristics



Dimensions



Additional product information (links)

Temperature dependency, derating

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