DATASHEET - FAZ-C40/2



Miniature circuit breaker (MCB), 40A, 2p, C-Char, AC

Powering Business Worldwide*

Part no. FAZ-C40/2
Catalog No. 278764
Eaton Catalog No. FAZ-C40/2
EL-Nummer 0001695172
(Norway)

Similar to illustration

Technical data

| F | lectrica | i |
|---|----------|---|
| | iectrica | |

| Standards | | | IEC/EN 60947-2 IEC/EN 60898 |
|---|-----------------|-----------------|---|
| Rated operational voltage | U _e | V | |
| | U _e | V AC | 240/415 |
| | | V DC | 60 (per pole) |
| Rated voltage according to UL | U_n | V AC | 480Y/277 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 15 |
| Breaking capacity according to UL | | kA | 5 (UL1077) |
| Max operational voltage according to IEC/EN 60947-2 | | V AC | 440 |
| 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 | Un | V AC | 415 |
| 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 |
| Operational switching capacity | | kA | 7.5 |
| Characteristic | | | B, C, D, K, S, Z |
| Max. back-up fuse | | A gL/gG | 125 |
| Selectivity Class | | | 3 |
| lifespan | | | |
| Lifespan | Operations | | > 10000 |
| Direction of incoming supply | | | as required |
| Mechanical | | | |
| Standard front dimension | | mm | 45 |
| Enclosure height | | mm | 80 |
| Mounting width per pole | | mm | 17.5 |
| 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 |
| Terminal capacities | | mm^2 | |
| | | mm^2 | 1 x 25 |
| | | mm ² | 2 x 10 |
| | | | |
| Thickness of busbar material | | mm | 0.8 2 |
| 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 | 40 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 7.5 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |

| Operating ambient temperature min. Operating ambient temperature max. EC/EN 61439 design verification 10.2 Strength of materials and parts | °C | -40 75 linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
|--|----|--|
| EC/EN 61439 design verification | °C | |
| • | | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| • | | |
| 10.2 Strength of materials and parts | | |
| 3 | | |
| 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 hea 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

Width in number of modular spacings

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]) С Release characteristic 2 Number of poles (total) Number of protected poles 2 Rated current 40 Rated voltage 400 Rated insulation voltage Ui 440 kV Rated impulse withstand voltage Uimp 4 kA Rated short-circuit breaking capacity Icn EN 60898 at 230 $\rm V$ 10 Rated short-circuit breaking capacity Icn EN 60898 at 400 $\rm V$ kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 $\rm V$ kΑ 15 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 $\rm V$ kΑ 15 Voltage type AC Frequency Hz 50 - 60 **Current limiting class** 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral Over voltage category 3 Pollution degree 2 Additional equipment possible Yes

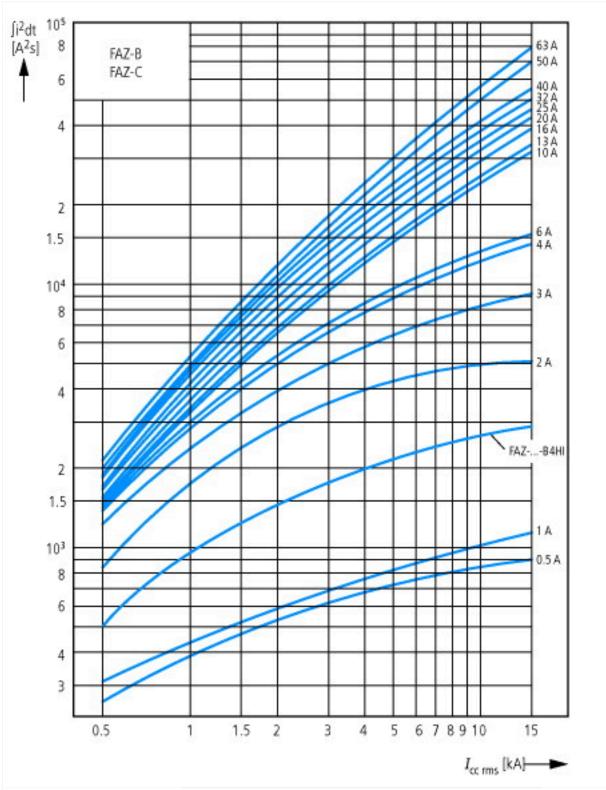
2

| 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 |

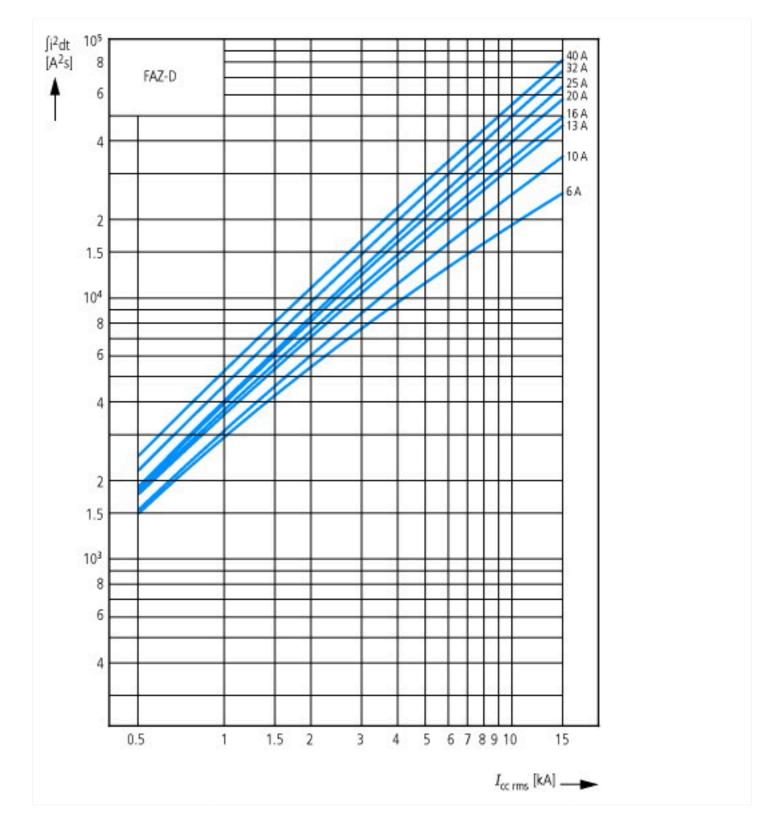
Approvals

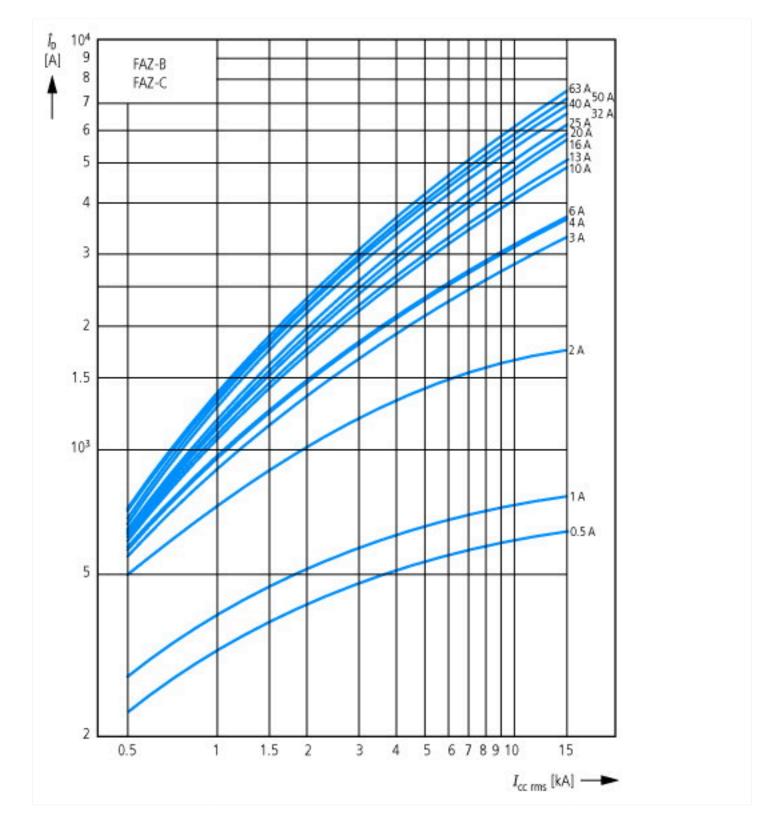
| DL File No. E177451 DL Category Control No. QVNU2, QVNU8 CSA File No. 204453 CSA Class No. North America Certification Conditions of Acceptability Supplementary Protector only Burtable for Current Limiting Circuit-Breaker E177451 QVNU2, QVNU8 204453 QUYNU2, QVNU8 20453 QUYNU2, QVNU8 20453 QUYNU2, QVNU8 20453 QUYNU2, QVNU8 204453 QUYNU2, QVNU8 20453 QUYNU2, QVNU8 204545 QUYNU2, | • • | |
|---|----------------------------------|--|
| DL Category Control No. CSA File No. CSA Class No. Solutions of Acceptability Supplementary Protector only Suitable for Current Limiting Circuit-Breaker CONUMB 204453 3215-30 UL recognized, CSA certified Supplementary Protector only Branch Circuits; not as BCPD No | Product Standards | IEC/EN 60947-2; IEC/EN 60898; UL 1077; CSA-C22.2 No. 235; CE marking |
| 204453 CSA File No. 204453 CSA Class No. 3215-30 UL recognized, CSA certified Conditions of Acceptability Supplementary Protector only Suitable for Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No | UL File No. | E177451 |
| SSA Class No. North America Certification UL recognized, CSA certified Conditions of Acceptability Supplementary Protector only Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No | UL Category Control No. | QVNU2, QVNU8 |
| North America Certification UL recognized, CSA certified Supplementary Protector only Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No | CSA File No. | 204453 |
| Conditions of Acceptability Supplementary Protector only Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No | CSA Class No. | 3215-30 |
| Suitable for Branch Circuits; not as BCPD Current Limiting Circuit-Breaker No | North America Certification | UL recognized, CSA certified |
| Current Limiting Circuit-Breaker No | Conditions of Acceptability | Supplementary Protector only |
| | Suitable for | Branch Circuits; not as BCPD |
| Max. Voltage Rating 480Y/277 VAC; 96 VDC | Current Limiting Circuit-Breaker | No |
| | Max. Voltage Rating | 480Y/277 VAC; 96 VDC |
| Degree of Protection IEC: IP20; UL/CSA Type: - | Degree of Protection | IEC: IP20; UL/CSA Type: - |

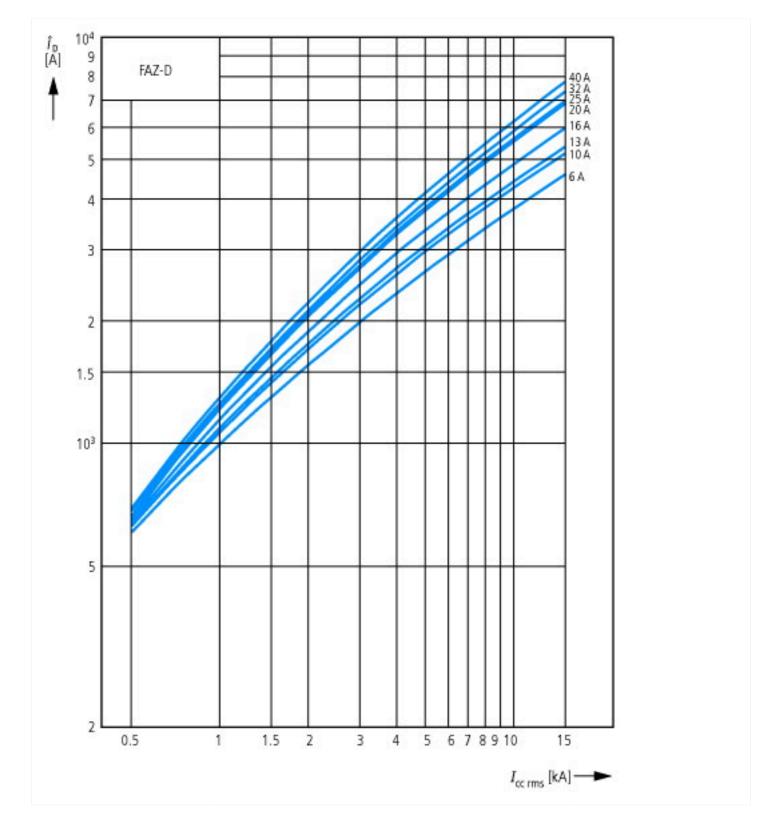
Characteristics

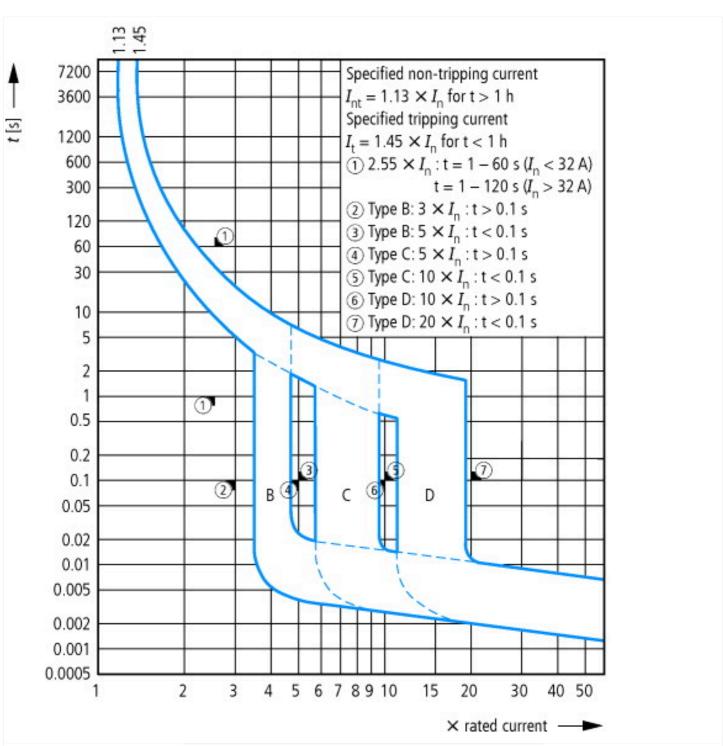


Let-through energy I²t According to IEC/EN 60898









Dimensions

