DATASHEET - FAZ-C6/2-DC



Miniature circuit breaker (MCB), 6A, 2p, C-Char, DC current



Part no. FAZ-C6/2-DC Catalog No. 279137 Eaton Catalog No. FAZ-C6/2-DC EL-Nummer 0001691503 (Norway)

 $Similar \ to \ illustration$

Technical data

| Electrical | | | |
|---|-----------------|-----------------|---|
| Standards | | | IEC/EN 60947-2 |
| Rated operational voltage | U _e | V | |
| | | V DC | 250 (per pole) |
| Rated switching capacity acc. to IEC/EN 60947-2 | I _{cu} | kA | 10 |
| Characteristic | | | С |
| Max. back-up fuse | | A gL/gG | 100 |
| Selectivity Class | | | 3 |
| lifespan | | | |
| Lifespan | Operations | | > 10000 |
| Direction of incoming supply | | | Polarity dependent |
| 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 | 6 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 2.9 |
| 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 $^{\circ}$ C, results in a 0.5% reduction of current carrying capacity |

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]) | | | | |
| Release characteristic | С | | | |
| Number of poles (total) | 2 | | | |
| Number of protected poles | 2 | | | |

| Rated current A 6 Rated voltage V 250 Rated insulation voltage Ui V 440 Rated insulation voltage Uimp KV 4 Rated short-circuit breaking capacity Icn EN 60988 at 230 V KA 0 Rated short-circuit breaking capacity Icn EN 60988 at 400 V KA 0 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V KA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V KA 10 Voltage type C C Voltage type C C Current limiting class S 3 Suitable for flush-mounted installation K No Concurrently switching N-neutral K 2 Over voltage category S 3 Pollution degree K 2 Additional equipment possible Yes With in number of modular spacings M 75 Built-in depth M 75 Degree of protection (IP) M 25-75 Connectable condu | | | |
|--|--|-----|----------|
| 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 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 10 Voltage type DC DC Voltage type B DC Current limiting class 3 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category 3 3 Pollution degree 2 4 Additional equipment possible Yes Width in number of modular spacings T 12 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 | Rated current | Α | 6 |
| 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 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V kA 10 Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V kA 10 Voltage type DC DC Voltage type DC 50 - 60 Current limiting class 3 3 Suitable for flush-mounted installation Mo No Concurrently switching N-neutral No No Over voltage category S 3 3 Pollution degree S 2 2 Additional equipment possible Yes Yes Width in number of modular spacings T 2 Built-in depth P 1P20 Ambient temperature during operating C -25-75 Connectable conductor cross section multi-wired mm 1-25 | Rated voltage | V | 250 |
| Rated short-circuit breaking capacity Icn EN 60898 at 430 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V Voltage type Voltage type Voltage type Voltage type Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in degth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Rated short-circuit breaking capacity Icn IEC 60987-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icn IEC 60947-2 at 200 V Rated short-circuit breaking capac | Rated insulation voltage Ui | V | 440 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | Rated impulse withstand voltage Uimp | kV | 4 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 200 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Voltage type Voltage type Requency | Rated short-circuit breaking capacity Icn EN 60898 at 230 V | kA | 0 |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Voltage Category Voltage | Rated short-circuit breaking capacity Icn EN 60898 at 400 V | kA | 0 |
| Voltage type DC Voltage type DC Frequency HZ 50 - 60 Current limiting class 3 3 Suitable for flush-mounted installation No No Concurrently switching N-neutral No No Over voltage category 3 3 Pollution degree 2 2 Additional equipment possible Yes 2 Width in number of modular spacings 2 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 | Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 10 |
| Voltage type Frequency Hz 50 - 60 Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired | Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | kA | 10 |
| Frequency Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Hz 50 - 60 No No No Ves Yes 2 2 4 7 7 7 7 7 7 7 7 7 7 7 7 | Voltage type | | DC |
| Current limiting class Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired 3 No No No 2 4 3 2 4 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 | Voltage type | | DC |
| Suitable for flush-mounted installation Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No No No No No 2 4 Degree of protection (IP) Protection (IP) No No 1 Pol Pol Pol Pol Pol Pol Pol | Frequency | Hz | 50 - 60 |
| Concurrently switching N-neutral Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired No Yes 2 Pollution degree mm 70.5 IP20 Connectable conductor cross section multi-wired No No Yes 2 2 And mm 70.5 Poly Poly Poly And Toly Poly P | Current limiting class | | 3 |
| Over voltage category Pollution degree Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating "C -25-75 Connectable conductor cross section multi-wired 3 Yes Yes 2 Built-in depth IP20 The protection (IP) IP20 The protection multi-wired "C -25-75 The protection multi-wired "C -25-75 The protection multi-wired "C -25-75 | Suitable for flush-mounted installation | | No |
| Pollution degree 2 Additional equipment possible Yes Width in number of modular spacings 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 | Concurrently switching N-neutral | | No |
| Additional equipment possible Width in number of modular spacings Built-in depth Degree of protection (IP) Ambient temperature during operating Connectable conductor cross section multi-wired Yes 2 1 1 1 1 1 1 1 1 1 1 1 1 | Over voltage category | | 3 |
| Width in number of modular spacings 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 | Pollution degree | | 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 | Additional equipment possible | | Yes |
| Degree of protection (IP) Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 | Width in number of modular spacings | | 2 |
| Ambient temperature during operating °C -25 - 75 Connectable conductor cross section multi-wired mm² 1 - 25 | Built-in depth | mm | 70.5 |
| Connectable conductor cross section multi-wired mm² 1 - 25 | Degree of protection (IP) | | IP20 |
| | Ambient temperature during operating | °C | -25 - 75 |
| Connectable conductor cross section solid-core mm ² 1 - 25 | Connectable conductor cross section multi-wired | mm² | 1 - 25 |
| | Connectable conductor cross section solid-core | mm² | 1 - 25 |

Dimensions

