

Miniature circuit breaker (MCB), 20 A, 1p, characteristic: C, DC

Part no. **FAZ-C20/1-DC**
 279129
EL Number **1691495**
(Norway)

| General specifications | | |
|--|--|---|
| Product name | | Eaton Moeller series xEffect - FAZ-DC MCB |
| Part no. | | FAZ-C20/1-DC |
| EAN | | 4015082791292 |
| Product Length/Depth | | 80 millimetre |
| Product height | | 75.5 millimetre |
| Product width | | 17.7 millimetre |
| Product weight | | 0.111 kilogram |
| Compliances | | RoHS conform |
| Certifications | | IEC/EN 60947-2 EN45545-2 IEC 61373 |
| Product Tradename | | xEffect - FAZ-DC |
| Product Type | | MCB |
| Product Sub Type | | None |
| Delivery program | | |
| Application | | Switchgear for DC applications |
| Number of poles | | Single-pole |
| Number of poles (total) | | 1 |
| Number of poles (protected) | | 1 |
| Tripping characteristic | | C |
| Release characteristic | | C |
| Amperage Rating | | 20 A |
| Type | | FAZ-DC Miniature circuit breaker |
| Technical Data - Electrical | | |
| Voltage type | | DC |
| Voltage rating at DC | | 250 V DC (per pole) |
| Rated operational voltage (Ue) - max | | 250 V |
| Rated insulation voltage (Ui) | | 440 V |
| Rated impulse withstand voltage (Uimp) | | 4 kV |
| Frequency rating - min | | 50 Hz |
| Frequency rating - max | | 60 Hz |
| Rated switching capacity (IEC/EN 60947-2) | | 10 kA |
| Rated short-circuit breaking capacity (EN 60898) at 230 V | | 0 kA |
| Rated short-circuit breaking capacity (EN 60898) at 400 V | | 0 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 230 V | | 10 kA |
| Rated short-circuit breaking capacity (IEC 60947-2) at 400 V | | 10 kA |
| Admissible back-up fuse - max | | 100 A gL/gG |
| Selectivity class | | 3 |
| Lifespan, electrical | | 10000 operations |
| Overvoltage category | | III |
| Pollution degree | | 2 |
| Direction of incoming supply | | Polarity dependent |
| Technical Data - Mechanical | | |
| Frame | | 45 mm |
| Enclosure width | | 80 mm |
| Width in number of modular spacings | | 1 |
| Built-in depth | | 70.5 mm |

| | | |
|--|--|---|
| Mounting width | | 17.5 mm |
| Mounting width per pole | | 17.5 mm |
| Mounting Method | | Top-hat rail IEC/EN 60715 |
| Mounting position | | As required |
| Degree of protection | | IP40 (when fitted) IP20 |
| Terminals (top and bottom) | | Twin-purpose terminals |
| Connectable conductor cross section (solid-core) - min | | 1 mm ² |
| Connectable conductor cross section (solid-core) - max | | 25 mm ² |
| Connectable conductor cross section (multi-wired) - min | | 1 mm ² |
| Connectable conductor cross section (multi-wired) - max | | 25 mm ² |
| Terminal capacity of screw terminals for main cable | | 10 mm ² (2x) |
| Terminal capacity (control cable) | | 25 mm ² (1x) |
| Terminal protection | | Finger and hand touch safe, DGUV VS3, EN 50274 |
| Busbar material thickness | | 0.8 mm - 2 mm |
| Design verification as per IEC/EN 61439 - technical data | | |
| Rated operational current for specified heat dissipation (I _n) | | 20 A |
| Heat dissipation per pole, current-dependent | | 0 W |
| Equipment heat dissipation, current-dependent | | 3.2 W |
| Static heat dissipation, non-current-dependent | | 0 W |
| Heat dissipation capacity | | 0 W |
| Ambient operating temperature - min | | -25 °C |
| Ambient operating temperature - max | | 75 °C |
| Additional information | | |
| Current limiting class | | 3 |
| Features | | Additional equipment possible |
| Special features | | Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity |
| Used with | | FAZ-DC Miniature circuit breaker |

Technical data ETIM 9.0

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@ss13-27-14-19-01 [AAB905019])

| | | |
|---|----|---------|
| Built-in depth | mm | 70.5 |
| Release characteristic | | C |
| Number of poles (total) | | 1 |
| Number of protected poles | | 1 |
| Rated current | A | 20 |
| Rated voltage | V | 250 |
| Rated insulation voltage U _i | V | 440 |
| Rated impulse withstand voltage U _{imp} | kV | 4 |
| Rated short-circuit breaking capacity I _{cn} according to EN 60898 at 230 V | kA | 0 |
| Voltage type | | DC |
| Rated short-circuit breaking capacity I _{cn} according to EN 60898 at 400 V | kA | 0 |
| Rated short-circuit breaking capacity I _{cu} according to IEC 60947-2 at 230 V | kA | 10 |
| Rated short-circuit breaking capacity I _{cu} according to IEC 60947-2 at 400 V | kA | 10 |
| Frequency | Hz | 50 - 60 |
| Power loss | W | 2.9 |
| Current limiting class | | 3 |
| Flush-mounted installation | | No |
| Concurrently switching neutral conductor | | No |
| Over voltage category | | 3 |
| Pollution degree | | 2 |
| Additional equipment possible | | Yes |

| | | | |
|---|--|-----------------|----------|
| Width in number of modular spacings | | | 1 |
| Degree of protection (IP) | | | IP20 |
| Ambient temperature during operating | | °C | -25 - 75 |
| Connectable conductor cross section multi-wired | | mm ² | 1 - 25 |
| Connectable conductor cross section solid-core | | mm ² | 1 - 25 |
| Explosion-proof | | | No |