

## Miniature circuit breaker (MCB), 4 A, 1p, characteristic: C, DC

**Part no.** FAZ-C4/1-NA-DC  
**113754**

**EL Number**  
**(Norway)** 1691684

| General specifications                                       |  |
|--|--|
| Product name   | Eaton Moeller series xEffect - FAZ-NA-DC MCB                     |
| Part no.   | FAZ-C4/1-NA-DC   |
| EAN  | 4015081131396  |
| Product Length/Depth   | 105 millimetre   |
| Product height   | 75.5 millimetre  |
| Product width  | 17.7 millimetre  |
| Product weight   | 0.122 kilogram   |
| Compliances  | RoHS conform   |
| Certifications   | IEC 60947-2<br>UL 489, CSA C22.2 No. 5<br>IEC 61373<br>EN45545-2 |
| Product Tradename  | xEffect - FAZ-NA-DC  |
| Product Type   | MCB  |
| Product Sub Type   | None   |
| Delivery program   |  |
| Application  | Switchgear for export to North America (UL-listed)               |
| Number of poles  | Single-pole  |
| Number of poles (total)                                      | 1  |
| Number of poles (protected)                                  | 1  |
| Tripping characteristic                                      | C  |
| Release characteristic                                       | C  |
| Amperage Rating  | 4 A  |
| Type   | FAZ-DC<br>Miniature circuit breaker                              |
| Technical Data - Electrical                                  |  |
| Voltage type   | DC   |
| Voltage rating at DC   | 250 V DC   |
| 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  |
| Overvoltage category   | III  |
| Pollution degree   | 2  |
| Technical Data - Mechanical                                  |  |
| Width in number of modular spacings                          | 1  |
| Built-in depth   | 70.5 mm  |
| Degree of protection   | IP20   |
| Connectable conductor cross section (solid-core) - min       | 1 mm <sup>2</sup>  |
| Connectable conductor cross section (solid-core) - max       | 25 mm <sup>2</sup>   |
| Connectable conductor cross section (multi-wired) - min      | 1 mm <sup>2</sup>  |
| Connectable conductor cross section (multi-wired) - max      | 25 mm <sup>2</sup>   |

| <b>Design verification as per IEC/EN 61439 - technical data</b>                  |  |  |
|--|--|--|
| Rated operational current for specified heat dissipation (In)                    |  | 4 A  |
| Heat dissipation per pole, current-dependent                                     |  | 0 W  |
| Equipment heat dissipation, current-dependent                                    |  | 1.4 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  |
| <b>Design verification as per IEC/EN 61439</b>                                   |  |  |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.   |
| 10.9.2 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.                         |
| <b>Additional information</b>  |  |  |
| 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<br>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  | 4    |
| Rated voltage   | V  | 250  |
| Rated insulation voltage Ui   | V  | 440  |
| Rated impulse withstand voltage Uimp  | kV | 4    |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V  | kA | 0    |
| Voltage type  |    | DC   |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V  | kA | 0    |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V   | kA | 10   |

|   |                 |          |
|---|-----------------|----------|
| Rated short-circuit breaking capacity I <sub>cu</sub> according to IEC 60947-2 at 400 V | kA              | 10       |
| Frequency   | Hz              | 50 - 60  |
| Power loss  | W               | 1.4      |
| 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 <sup>2</sup> | 1 - 25   |
| Connectable conductor cross section solid-core  | mm <sup>2</sup> | 1 - 25   |
| Explosion-proof   |                 | No       |