

## Miniature circuit breaker (MCB), 0.5 A, 1p, characteristic: K



**Part no.** FAZ-K0,5/1  
**278589**  
**EL Number** 1695309  
**(Norway)**

| General specifications                                       |  |  |
|--|--|--|
| Product name   |  | Eaton Moeller series xEffect - FAZ MCB   |
| Part no.   |  | FAZ-K0,5/1   |
| EAN  |  | 4015082785895  |
| Product Length/Depth   |  | 80 millimetre  |
| Product height   |  | 75.5 millimetre  |
| Product width  |  | 17.7 millimetre  |
| Product weight   |  | 0.11 kilogram  |
| Compliances  |  | UL CSA09 (with supplementary protector only)<br>RoHS conform   |
| Certifications   |  | UL (File No. E177451)<br>CSA-C22.2 No. 235<br>IEC/EN 60947-2<br>UL 1077<br>UL (Category Control Number QVNU2, QVNU8)<br>North America (UL recognized, CSA certified)<br>CSA (Class No. 3215-30)<br>IEC/EN 60898<br>CSA (File No. 204453)<br>CE marking<br>IEC 61373<br>EN45545-2 |
| Product Tradename  |  | xEffect - FAZ  |
| Product Type   |  | MCB  |
| Product Sub Type   |  | None   |
| Delivery program   |  |  |
| Application  |  | Branch circuits, not as BCPD<br>Switchgear for industrial and advanced commercial applications<br>xEffect - Switchgear for industrial and advanced commercial applications   |
| Number of poles  |  | Single-pole  |
| Number of poles (total)                                      |  | 1  |
| Number of poles (protected)                                  |  | 1  |
| Tripping characteristic                                      |  | K  |
| Release characteristic                                       |  | K  |
| Amperage Rating  |  | 0.5 A  |
| Type   |  | FAZ<br>Miniature circuit breaker   |
| Technical Data - Electrical                                  |  |  |
| Voltage type   |  | AC   |
| Voltage rating   |  | 240 V AC   |
| Voltage rating at DC   |  | 60 V DC (per pole)   |
| Voltage rating (UL CSA 13)                                   |  | 277 V AC; 48 V DC  |
| Rated operational voltage (Ue) - max                         |  | 230 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  |
| Operational switching capacity                               |  | 7.5 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                                |  | 125 A gL/gG  |

|  |  |  |   |
|--|--|--|---|
| Selectivity class  |  |  | 3   |
| Lifespan, electrical   |  |  | 10000 operations  |
| Overvoltage category   |  |  | III   |
| Pollution degree   |  |  | 2   |
| Direction of incoming supply   |  |  | As required   |
| 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 per pole  |  |  | 17.5 mm   |
| Mounting width   |  |  | 17.5 mm   |
| Mounting Method  |  |  | Top-hat rail IEC/EN 60715   |
| Mounting position  |  |  | As required   |
| Degree of protection   |  |  | IP20<br>IP20 (IEC)<br>UL/CSA Type: -<br>IP40 (when fitted)  |
| Terminals (top and bottom)   |  |  | Twin-purpose terminals  |
| 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>  |
| Terminal capacity of screw terminals for main cable                        |  |  | 10 mm <sup>2</sup> (2x)   |
| Terminal capacity (control cable)  |  |  | 25 mm <sup>2</sup> (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 <sub>n</sub> ) |  |  | 0.5 A   |
| Heat dissipation per pole, current-dependent                               |  |  | 0 W   |
| Equipment heat dissipation, current-dependent                              |  |  | 1.8 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<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  |  |    | K    |
| Number of poles (total)   |  |    | 1    |
| Number of protected poles   |  |    | 1    |
| Rated current   |  | A  | 0.5  |
| Rated voltage   |  | V  | 230  |
| Rated insulation voltage U <sub>i</sub>   |  | V  | 440  |
| Rated impulse withstand voltage U <sub>imp</sub>  |  | kV | 4    |
| Rated short-circuit breaking capacity I <sub>cn</sub> according to EN 60898 at 230 V  |  | kA | 0    |
| Voltage type  |  |    | AC   |

|   |                 |          |
|---|-----------------|----------|
| 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 Icu according to IEC 60947-2 at 400 V | kA              | 10       |
| Frequency   | Hz              | 50 - 60  |
| Power loss  | W               | 1.8      |
| 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       |