

## Miniature circuit breaker (MCB), 10 A, 2p, characteristic: K

**Part no.** FAZ-K10/2  
**278796**  
**EL Number** 1695328  
**(Norway)**

| General specifications                                       |  |  |
|--|--|--|
| Product name   |  | Eaton Moeller series xEffect - FAZ MCB   |
| Part no.   |  | FAZ-K10/2  |
| EAN  |  | 4015082787967  |
| Product Length/Depth   |  | 80 millimetre  |
| Product height   |  | 75.5 millimetre  |
| Product width  |  | 36 millimetre  |
| Product weight   |  | 0.222 kilogram   |
| Compliances  |  | UL CSA09 (with supplementary protector only)<br>RoHS conform   |
| Certifications   |  | North America (UL recognized, CSA certified)<br>UL (File No. E177451)<br>CSA-C22.2 No. 235<br>IEC/EN 60898<br>CSA (Class No. 3215-30)<br>IEC/EN 60947-2<br>CSA (File No. 204453)<br>UL (Category Control Number QVNU2, QVNU8)<br>CE marking<br>UL 1077<br>EN45545-2<br>IEC 61373 |
| 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  |  | Two-pole   |
| Number of poles (total)                                      |  | 2  |
| Number of poles (protected)                                  |  | 2  |
| Tripping characteristic                                      |  | K  |
| Release characteristic                                       |  | K  |
| Amperage Rating  |  | 10 A   |
| Type   |  | FAZ<br>Miniature circuit breaker   |
| Technical Data - Electrical                                  |  |  |
| Voltage type   |  | AC   |
| Voltage rating   |  | 240 V AC / 415 V AC  |
| Voltage rating at DC   |  | 60 V DC (per pole)   |
| Voltage rating (UL CSA 13)                                   |  | 480 Y/277 V AC; 96 V DC  |
| Rated operational voltage (Ue) - max                         |  | 400 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                     |  | 2  |
| 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>IP40 (when fitted)<br>UL/CSA Type: -<br>IP20 (IEC) |
| 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> ) |  | 10 A   |
| Heat dissipation per pole, current-dependent                               |  | 0 W    |
| Equipment heat dissipation, current-dependent                              |  | 3.6 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              |  | Miniature circuit breaker<br>FAZ  |

## 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)  |    | 2    |
| Number of protected poles  |    | 2    |
| Rated current  | A  | 10   |
| Rated voltage  | V  | 400  |
| 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 $I_{cn}$ 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               | 3.6      |
| 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  |                 | 2        |
| 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       |