

## Miniature circuit breaker (MCB), 3 A, 1p+N, characteristic: C, 6 kA



**Part no.** **FAZ6-C3/1N**  
**239057**

|                                                                                  |                                            |
|----------------------------------------------------------------------------------|--------------------------------------------|
| Product name                                                                     | Eaton Moeller series xEffect - FAZ6 MCB    |
| Part no.                                                                         | FAZ6-C3/1N                                 |
| EAN                                                                              | 4015082390570                              |
| Product Length/Depth                                                             | 85 millimetre                              |
| Product height                                                                   | 73 millimetre                              |
| Product width                                                                    | 35.4 millimetre                            |
| Product weight                                                                   | 0.216 kilogram                             |
| Compliances                                                                      | RoHS conform                               |
| Product Tradename                                                                | xEffect - FAZ6                             |
| Product Type                                                                     | MCB                                        |
| Product Sub Type                                                                 | None                                       |
| Number of poles (total)                                                          | 2                                          |
| Number of poles (protected)                                                      | 1                                          |
| Release characteristic                                                           | C                                          |
| Amperage Rating                                                                  | 3 A                                        |
| Voltage type                                                                     | AC                                         |
| 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 short-circuit breaking capacity (EN 60898) at 230 V                        | 6 kA                                       |
| Rated short-circuit breaking capacity (EN 60898) at 400 V                        | 6 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                                          |
| Width in number of modular spacings                                              | 2                                          |
| 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>                         |
| Rated operational current for specified heat dissipation (In)                    | 3 A                                        |
| Equipment heat dissipation, current-dependent                                    | 1.3 W                                      |
| Ambient operating temperature - min                                              | -25 °C                                     |
| Ambient operating temperature - max                                              | 75 °C                                      |
| 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.                         |
|                                                          |  |                                                                                                                                  |
| Current limiting class                                   |  | 3                                                                                                                                |
| Features                                                 |  | Concurrently switching N-neutral<br>Additional equipment possible                                                                |

## Technical data ETIM 8.0

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)  
(ecI@ss10.0.1-27-14-19-01 [AAB905014])

|                                                                             |                 |          |
|-----------------------------------------------------------------------------|-----------------|----------|
| Built-in depth                                                              | mm              | 70.5     |
| Release characteristic                                                      |                 | C        |
| Number of poles (total)                                                     |                 | 2        |
| Number of protected poles                                                   |                 | 1        |
| Rated current                                                               | A               | 3        |
| Rated voltage                                                               | V               | 230      |
| 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              | 6        |
| Voltage type                                                                |                 | AC       |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V    | kA              | 6        |
| 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  |
| Current limiting class                                                      |                 | 3        |
| Flush-mounted installation                                                  |                 | No       |
| Concurrently switching neutral conductor                                    |                 | Yes      |
| 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       |