



**Miniature circuit breaker (MCB), 16A, 4 p, type C characteristic, 6 kA**



**Part no.** FAZ6-C16/4  
**Catalog No.** 239216  
**Eaton Catalog No.** FAZ6-C16/4

Similar to illustration

## Design verification as per IEC/EN 61439

|                                                                                                                        |                  |   |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                  |   |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>   | A | 16                                                                                                                               |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub> | W | 8.8                                                                                                                              |
| IEC/EN 61439 design verification                                                                                       |                  |   |                                                                                                                                  |
| 10.2 Strength of materials and parts                                                                                   |                  |   |                                                                                                                                  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties                                                                                             |                  |   |                                                                                                                                  |
| 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.                         |

## Technical data ETIM 7.0

|                                                                                                                                                                                                                   |  |    |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|-----|
| 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]) |  |    |     |
| Release characteristic                                                                                                                                                                                            |  |    | C   |
| Number of poles (total)                                                                                                                                                                                           |  |    | 4   |
| Number of protected poles                                                                                                                                                                                         |  |    | 4   |
| Rated current                                                                                                                                                                                                     |  | A  | 16  |
| 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> EN 60898 at 230 V                                                                                                                                           |  | kA | 6   |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V                                                                                                                                           |  | kA | 6   |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V                                                                                                                                        |  | kA | 10  |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 400 V                                                                                                                                        |  | kA | 10  |

|                                                 |                 |          |
|-------------------------------------------------|-----------------|----------|
| Voltage type                                    |                 | AC       |
| Frequency                                       | Hz              | 50 - 60  |
| Current limiting class                          |                 | 3        |
| Suitable for flush-mounted installation         |                 | No       |
| Concurrently switching N-neutral                |                 | No       |
| Over voltage category                           |                 | 3        |
| Pollution degree                                |                 | 2        |
| Additional equipment possible                   |                 | Yes      |
| Width in number of modular spacings             |                 | 4        |
| Built-in depth                                  | mm              | 70.5     |
| 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   |