



## Miniature circuit breaker (MCB), 10A, 3 p, type D characteristic, 6 kA

**Part no.** FAZ6-D10/3  
**Catalog No.** 168080  
**Eaton Catalog No.** FAZ6-D10/3

Similar to illustration

### Design verification as per IEC/EN 61439

|                                                                                                                        |           |   |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-----------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |           |   |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | $I_n$     | A | 10                                                                                                                               |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$ | W | 4.6                                                                                                                              |
| 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 6.0

|                                                                                                                                                                                                                |  |    |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------|
| 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@ss8.1-27-14-19-01 [AAB905011]) |  |    |         |
| Release characteristic                                                                                                                                                                                         |  |    | D       |
| Number of poles (total)                                                                                                                                                                                        |  |    | 3       |
| Number of protected poles                                                                                                                                                                                      |  |    | 3       |
| Nominal rated current                                                                                                                                                                                          |  | A  | 10      |
| Nominal rated voltage                                                                                                                                                                                          |  | V  | 230     |
| Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 230 V                                                                                                                                               |  | kA | 6       |
| Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V                                                                                                                                               |  | kA | 6       |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 230 V                                                                                                                                            |  | kA | 10      |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V                                                                                                                                            |  | kA | 10      |
| Voltage type                                                                                                                                                                                                   |  |    | AC      |
| Current limiting class                                                                                                                                                                                         |  |    | 3       |
| Frequency                                                                                                                                                                                                      |  | Hz | 50 - 60 |

|                                         |  |    |      |
|-----------------------------------------|--|----|------|
| Concurrently switching N-neutral        |  |    | No   |
| Suitable for flush-mounted installation |  |    | No   |
| Over voltage category                   |  |    | 3    |
| Pollution degree                        |  |    | 2    |
| Width in number of modular spacings     |  |    | 3    |
| Built-in depth                          |  | mm | 70.5 |
| Additional equipment possible           |  |    | Yes  |
| Degree of protection (IP)               |  |    | IP20 |