



## Miniature circuit breaker (MCB), 50A, 4 p, type D characteristic, 6 kA

**Part no.** FAZ6-D50/4  
**Catalog No.** 168095  
**Eaton Catalog No.** FAZ6-D50/4

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 | 50   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$ | W | 6.8  |
| 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 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) (ecl@ss8.1-27-14-19-01 [AAB905011]) |  |    |         |
| Release characteristic   |  |    | D       |
| Number of poles (total)  |  |    | 4       |
| Number of protected poles  |  |    | 4       |
| Nominal rated current  |  | A  | 50      |
| 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 | 6       |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V  |  | kA | 6       |
| 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     |  |    | 4    |
| Built-in depth                          |  | mm | 70.5 |
| Additional equipment possible           |  |    | Yes  |
| Degree of protection (IP)               |  |    | IP20 |