



**Miniature circuit breaker (MCB), 20 A, 2p, characteristic: D, 6 kA**

**Part no.** FAZ6-D20/2  
**Catalog No.** 168073  
**Alternate Catalog No.** FAZ6-D20/2

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 | 20   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$ | W | 4.1  |
| 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) (ecl@ss10.0.1-27-14-19-01 [AAB905014]) |  |    |     |
| Release characteristic  |  |    | D   |
| Number of poles (total)   |  |    | 2   |
| Number of protected poles   |  |    | 2   |
| Rated current   |  | A  | 20  |
| Rated voltage   |  | V  | 230 |
| Rated insulation voltage $U_i$  |  | V  | 440 |
| Rated impulse withstand voltage $U_{imp}$   |  | kV | 4   |
| 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 Icu 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                            |                 | 2        |
| 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   |

## Additional product information (links)

|                                  |   |
|----------------------------------|---|
| Temperature dependency, derating | <a href="https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ6.pdf">https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ6.pdf</a> |
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