



**Miniature circuit breaker (MCB), 1A, 1pole+N, type D characteristic**

**Part no.** FAZ-D1/1N  
**Catalog No.** 278682  
**Alternate Catalog No.** FAZ-D1/1N  
**EL-Nummer (Norway)** 1666765

Similar to illustration

**Delivery program**

|   |          |    |  |
|---|----------|----|--|
| Basic function                                  |          |    | Miniature circuit-breakers                                     |
| Number of poles                                 |          |    | 1 pole+N   |
| Tripping characteristic                         |          |    | D  |
| Application                                     |          |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$    | A  | 1  |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA | 15   |
| Product range                                   |          |    | FAZ  |

**Technical data**

**Electrical**

|   |          |    |    |
|---|----------|----|----|
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA | 15 |
|---|----------|----|----|

**Design verification as per IEC/EN 61439**

|  |            |    |   |
|--|------------|----|---|
| Technical data for design verification   |            |    |   |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 1   |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 0.9   |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 0   |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0   |
| Operating ambient temperature min.   |            | °C | -40   |
| Operating ambient temperature max.   |            | °C | 75  |
|  |            |    | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| 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   |                 | 1        |
| Rated current   | A               | 1        |
| 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              | 10       |
| Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V  | kA              | 10       |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 230 V   | kA              | 15       |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V   | kA              | 15       |
| Voltage type  |                 | AC       |
| Frequency   | Hz              | 50 - 60  |
| Current limiting class  |                 | 3        |
| Suitable for flush-mounted installation   |                 | No       |
| Concurrently switching N-neutral  |                 | Yes      |
| 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 FAZ.pdf">https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf</a> |
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