



**Miniature circuit breaker (MCB), 25 A, 4p, characteristic: D**

**Part no.** FAZ-D25/4  
**Catalog No.** 279086  
**Alternate Catalog No.** FAZ-D25/4  
**EL-Nummer (Norway)** 1695242

Similar to illustration

**Delivery program**

|   |          |    |  |
|---|----------|----|--|
| Basic function                                  |          |    | Miniature circuit-breakers                                     |
| Number of poles                                 |          |    | 4 pole   |
| Tripping characteristic                         |          |    | D  |
| Application                                     |          |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$    | A  | 25   |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA | 15   |
| Product range                                   |          |    | FAZ  |

**Technical data**

**Electrical**

|   |          |            |                       |
|---|----------|------------|-----------------------|
| Standards                                       |          |            | EN 45545-2; IEC 61373 |
| Rated operational voltage                       | $U_e$    | V          |                       |
|   | $U_e$    | V AC       | 240/415               |
|   | $U_e$    | V DC       | 60 (per pole)         |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA         | 15                    |
| Operational switching capacity                  |          | kA         | 7.5                   |
| Characteristic                                  |          |            | B, C, D, K, S, Z      |
| Max. back-up fuse                               |          | A gL/gG    | 125                   |
| Selectivity Class                               |          |            | 3                     |
| lifespan  |          |            |                       |
|   | Lifespan | Operations | > 10000               |
| Direction of incoming supply                    |          |            | as required           |

**Mechanical**

|                              |  |                 |   |
|------------------------------|--|-----------------|---|
| Standard front dimension     |  | mm              | 45                                      |
| Enclosure height             |  | mm              | 80                                      |
| Mounting width per pole      |  | mm              | 17.5                                    |
| Mounting                     |  |                 | IEC/EN 60715 top-hat rail               |
| Degree of Protection         |  |                 | IP20, IP40 (when fitted)                |
| Terminals top and bottom     |  |                 | Twin-purpose terminals                  |
| Terminal protection          |  |                 | Finger and back-of-hand proof to BGV A2 |
| Terminal capacities          |  | mm <sup>2</sup> |   |
|                              |  | mm <sup>2</sup> | 1 x 25                                  |
|                              |  | mm <sup>2</sup> | 2 x 10                                  |
| Thickness of busbar material |  | mm              | 0.8 ... 2                               |
| Mounting position            |  |                 | As required                             |

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

|  |           |   |    |
|--|-----------|---|----|
| Technical data for design verification                   |           |   |    |
| Rated operational current for specified heat dissipation | $I_n$     | A | 25 |
| Heat dissipation per pole, current-dependent             | $P_{vid}$ | W | 0  |
| Equipment heat dissipation, current-dependent            | $P_{vid}$ | W | 10 |
| Static heat dissipation, non-current-dependent           | $P_{vs}$  | W | 0  |

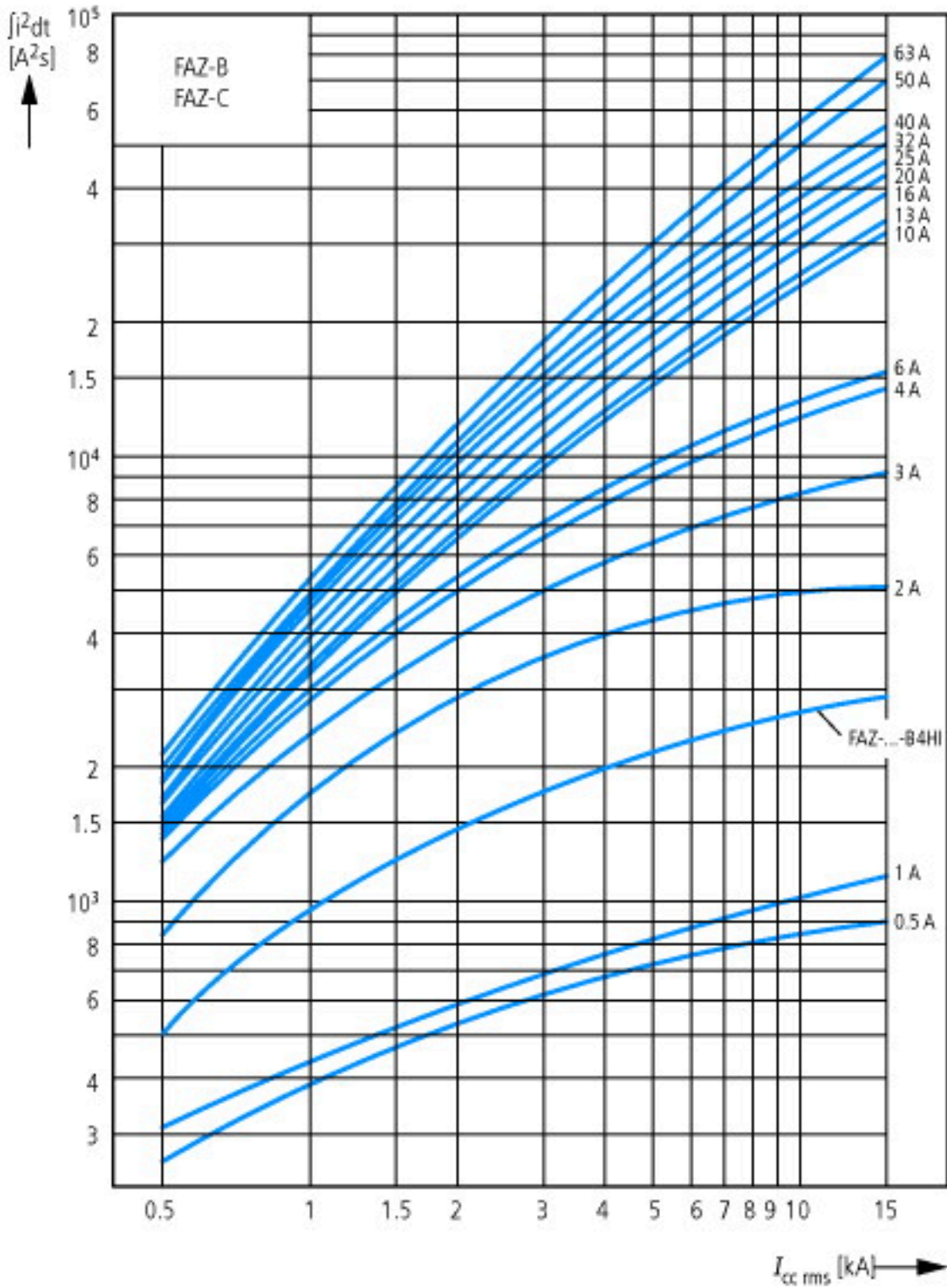
|  |                   |    |  |
|--|-------------------|----|--|
| Heat dissipation capacity  | P <sub>diss</sub> | W  | 0  |
| Operating ambient temperature min.   |                   | °C | -40  |
| Operating ambient temperature max.   |                   | °C | 75   |
|  |                   |    | 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)   |  |    | 4       |
| Number of protected poles   |  |    | 4       |
| Rated current   |  | A  | 25      |
| Rated voltage   |  | V  | 400     |
| 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 | 10      |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V   |  | kA | 10      |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V  |  | kA | 15      |
| Rated short-circuit breaking capacity I <sub>cu</sub> 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   |  |    | 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   |

## Characteristics



Let-through energy  $I^2t$   
According to IEC/EN 60898









Tripping characteristic at 30 °C:  
 B, C, D to IEC/EN 60898

## Dimensions



## Additional product information (links)

Temperature dependency, derating

<https://www.eaton.com/content/dam/eaton/technicaldocumentation/technical-data-tables/Derating table FAZ.pdf>