



**Miniature circuit breaker (MCB), 12A, 1p, B-Char, AC**

**Part no.** FAZT-B12/1  
**Catalog No.** 240792  
**Eaton Catalog No.** FAZT-B12/1

Similar to illustration

**Technical data**

**Electrical**

|   |            |      |                |
|---|------------|------|----------------|
| Standards   |            |      | IEC/EN 60947-2 |
| Rated voltage according to IEC/EN 60947-2   | $U_n$      | V AC | 240            |
| Rated switching capacity acc. to IEC/EN 60947-2   | $I_{cu}$   | kA   | 25             |
| Rated service short-circuit breaking capacity according to IEC/EN 60947-2                           | $I_{cs}$   |      | 12,5 kA        |
| Max operational voltage according to IEC/EN 60947-2   |            | V AC | 254            |
| Rated switching capacity according to IEC/EN 60947-2 (max operational voltage)                      | $I_{cu}$   | kA   | 15             |
| Rated service short-circuit breaking capacity according to IEC/EN 60947-2 (max operational voltage) | $I_{cs}$   |      | 7,5 kA         |
| Max operational voltage DC according to IEC/EN 60947-2  |            | V DC | 60/pole        |
| Rated voltage according to IEC/EN 60898-1   | $U_n$      | V AC | 240            |
| Rated switching capacity according to IEC/EN 60898-1  | $I_{cn}$   | kA   | 15             |
| Rated service short-circuit breaking capacity according to IEC/EN 60898-1                           | $I_{cs}$   |      | 7,5 kA         |
| Rated insulation voltage  | $U_i$      | V    | 440            |
| Rated frequency   | f          | Hz   | 50/60          |
| Characteristic  |            |      | B, C, D        |
| Direction of incoming supply  |            |      | as required    |
| lifespan  |            |      |                |
| Electrical  | Operations |      | ≥ 4000         |
| Mechanical  | Operations |      | ≥ 10000        |

**Mechanical**

|                                    |  |                 |   |
|------------------------------------|--|-----------------|---|
| Standard front dimension           |  | mm              | 45  |
| Enclosure height                   |  | mm              | 80  |
| Mounting width per pole            |  | mm              | 17.5  |
| Mounting                           |  |                 | Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 |
| Degree of Protection               |  |                 | IP20  |
| Terminals top and bottom           |  |                 | Twin-purpose terminals  |
| Terminal protection                |  |                 | Finger- and back-of-hand proof according to BGV A3 and ÖVE-EN 6       |
| Terminal capacities                |  | mm <sup>2</sup> | 1 - 25  |
| Tightening torque of fixing screws |  | N/m             | max. 2.4  |
| Thickness of busbar material       |  | mm              | 0.8 (except N 0.5 SU)   |
| 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  | 12  |
| Heat dissipation per pole, current-dependent             | $P_{vid}$  | W  | 0   |
| Equipment heat dissipation, current-dependent            | $P_{vid}$  | W  | 2.8 |
| 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.                         |

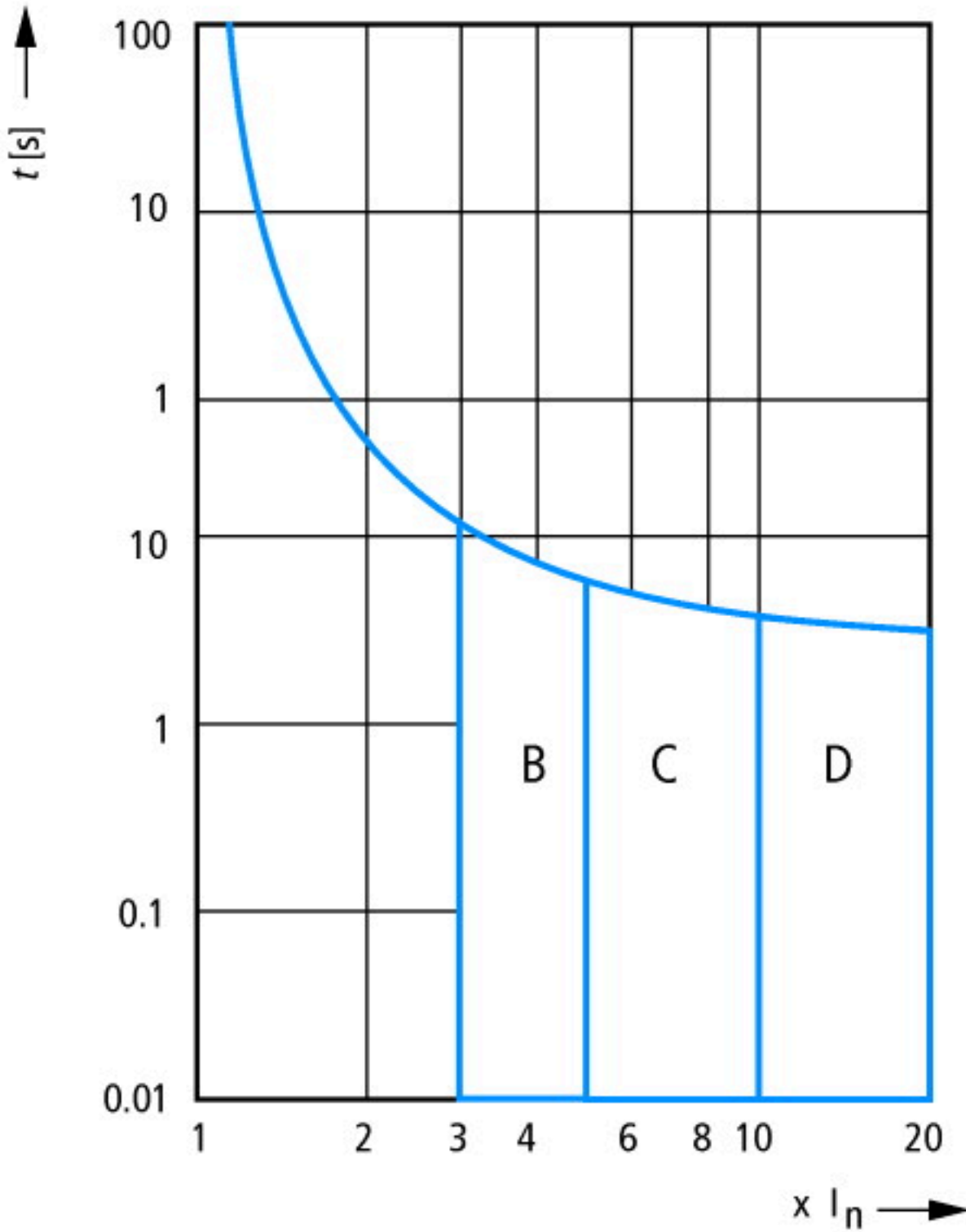
## Technical data ETIM 7.0

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   |    | B        |
| Number of poles (total)  |    | 1        |
| Number of protected poles                                      |    | 1        |
| Rated current  | A  | 12       |
| Rated voltage  | V  | 240      |
| Rated insulation voltage Ui                                    | V  | 440      |
| Rated impulse withstand voltage Uimp                           | kV | 4        |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V    | kA | 15       |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V    | kA | 15       |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 25       |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | kA | 25       |
| 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                            |    | 1        |
| Built-in depth   | mm | 70.5     |
| Degree of protection (IP)                                      |    | IP20     |
| Ambient temperature during operating                           | °C | -25 - 75 |

## Characteristics



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

## Dimensions

