



Over current switch, 7A, 1p, C-Char, DC current

Part no. **FAZ-C7/1-NA-DC**  
Article no. **113757**  
Catalog No. **FAZ-C7/1-NA-DC**

Similar to illustration

## Delivery program

|   |       |    |  |
|---|-------|----|--|
| Basic function                                  |       |    | Miniature circuit breakers                         |
| Number of poles                                 |       |    | 1 pole   |
| Tripping characteristic                         |       |    | C  |
| Application                                     |       |    | Switchgear for export to North America (UL-listed) |
| Rated current                                   | $I_n$ | A  | 7  |
| Rated switching capacity acc. to IEC/EN 60947-2 |       | kA | 10   |
| Product range                                   |       |    | FAZ-DC   |

## Technical data

### Electrical

|   |       |      |     |
|---|-------|------|-----|
| Rated operational voltage                       | $U_e$ | V    |     |
|   |       | V DC | 250 |
| Rated switching capacity acc. to IEC/EN 60947-2 |       | kA   | 10  |

## Design verification as per IEC/EN 61439

|  |            |    |   |
|--|------------|----|---|
| Technical data for design verification   |            |    |   |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 7   |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0   |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 1.4   |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 0   |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0   |
| Operating ambient temperature min.   |            | °C | -25   |
| 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 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   |  |    | C       |
| Number of poles (total)  |  |    | 1       |
| Number of protected poles  |  |    | 1       |
| Nominal rated current  |  | A  | 7       |
| Nominal rated voltage  |  | V  | 250     |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 230 V  |  | kA | 0       |
| Rated short-circuit breaking capacity I <sub>cn</sub> EN 60898 at 400 V  |  | kA | 0       |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 230 V   |  | kA | 10      |
| Rated short-circuit breaking capacity I <sub>cu</sub> IEC 60947-2 at 400 V   |  | kA | 10      |
| Voltage type   |  |    | DC      |
| 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  |  |    | 1       |
| Built-in depth   |  | mm | 70.5    |
| Additional equipment possible  |  |    | Yes     |
| Degree of protection (IP)  |  |    | IP20    |