

## DATASHEET - FAZ-C3/1-DC



## Miniature circuit breaker (MCB), 3 A, 1p, characteristic: C, DC

|                       |             |
|-----------------------|-------------|
| Part no.              | FAZ-C3/1-DC |
| Catalog No.           | 279123      |
| Alternate Catalog No. | FAZ-C3/1-DC |
| EL-Nummer (Norway)    | 1691489     |



Similar to illustration

## Delivery program

|   |          |    |                                |
|---|----------|----|--------------------------------|
| Basic function                                  |          |    | Miniature circuit-breakers     |
| Number of poles                                 |          |    | 1 pole                         |
| Tripping characteristic                         |          |    | C                              |
| Application                                     |          |    | Switchgear for DC applications |
| Rated current                                   | $I_n$    | A  | 3                              |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA | 10                             |
| Product range                                   |          |    | FAZ-DC                         |

## Technical data

## Electrical

|   |            |         |                       |
|---|------------|---------|-----------------------|
| Standards                                       |            |         | EN 45545-2; IEC 61373 |
| Rated operational voltage                       | $U_e$      | V       |                       |
|   |            | V DC    | 250 (per pole)        |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$   | kA      | 10                    |
| Characteristic                                  |            |         | C                     |
| Max. back-up fuse                               |            | A gL/gG | 100                   |
| Selectivity Class                               |            |         | 3                     |
| lifespan  |            |         |                       |
| Lifespan  | Operations |         | > 10000               |
| Direction of incoming supply                    |            |         | Polarity dependent    |

## 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 | 3   |
| Heat dissipation per pole, current-dependent             | $P_{vid}$  | W | 0   |
| Equipment heat dissipation, current-dependent            | $P_{vid}$  | W | 1.2 |
| 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 |    |     |

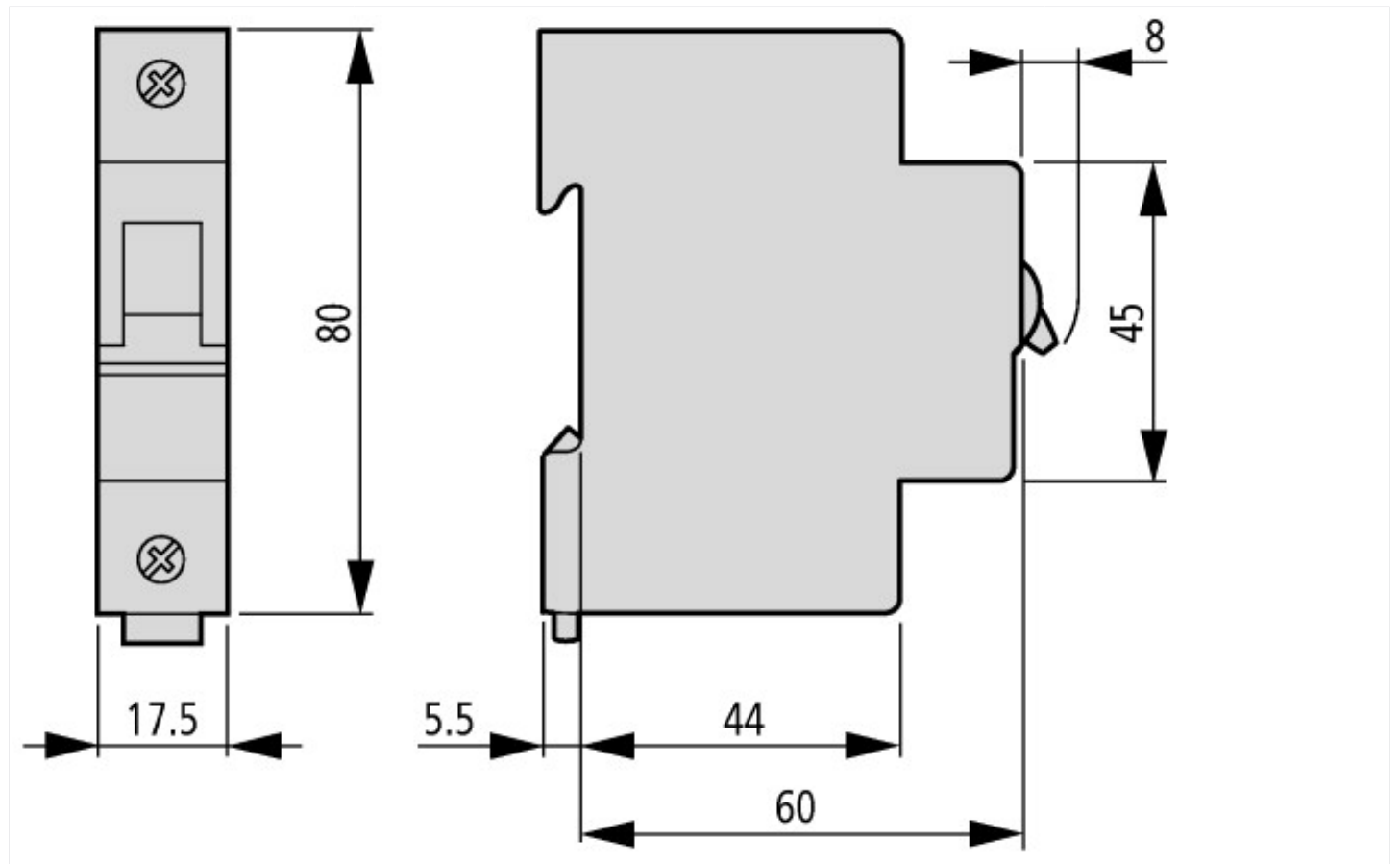
## Technical data ETIM 7.0

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  |                 | C        |
| Number of poles (total)   |                 | 1        |
| Number of protected poles   |                 | 1        |
| Rated current   | A               | 3        |
| Rated voltage   | V               | 250      |
| 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              | 0        |
| Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V    | kA              | 0        |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 230 V | kA              | 10       |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V | kA              | 10       |
| Voltage type  |                 | DC       |
| 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 |
| Connectable conductor cross section multi-wired                     | mm <sup>2</sup> | 1 - 25   |
| Connectable conductor cross section solid-core                      | mm <sup>2</sup> | 1 - 25   |

## Dimensions



## Additional product information (links)

Temperature dependency, derating

[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%20table%20FAZ.pdf)



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