



**Miniature circuit breaker (MCB), 20A, 1pole+N, type K characteristic**



**Part no.** FAZ-K20/1N  
**Catalog No.** 278713  
**Alternate Catalog No.** FAZ-K20/1N  
**EL-Nummer (Norway)** 1666796

Similar to illustration

**Delivery program**

|   |          |    |  |
|---|----------|----|--|
| Basic function                                  |          |    | Miniature circuit-breakers                                     |
| Number of poles                                 |          |    | 1 pole+N   |
| Tripping characteristic                         |          |    | K  |
| Application                                     |          |    | Switchgear for industrial and advanced commercial applications |
| Rated current                                   | $I_n$    | A  | 20   |
| Rated switching capacity acc. to IEC/EN 60947-2 | $I_{cu}$ | kA | 15   |
| Product range                                   |          |    | FAZ  |

**Technical data**

**Electrical**

|   |          |      |     |
|---|----------|------|-----|
| Rated operational voltage                       | $U_e$    | V    |     |
|   | $U_e$    | V AC |     |
| Rated operating voltage                         | $U_e$    | V AC | 240 |
| 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  | 20  |
| Heat dissipation per pole, current-dependent             | $P_{vid}$  | W  | 0   |
| Equipment heat dissipation, current-dependent            | $P_{vid}$  | W  | 7   |
| 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  |  |    | K       |
| Number of poles (total)   |  |    | 2       |
| Number of protected poles   |  |    | 1       |
| Rated current   |  | A  | 20      |
| 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 | 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 | 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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