



Miniature circuit breaker (MCB)

Part no. EMBS1100
Catalog No. EMBS1100

Delivery program

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|---|----------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 1 pole |
| Tripping characteristic | | | B |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | I_n | A | 100 |
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 20 |
| Product range | | | EM |

Technical data

Electrical

| | | | |
|---|----------|----|----|
| Rated switching capacity acc. to IEC/EN 60947-2 | I_{cu} | kA | 20 |
|---|----------|----|----|

Design verification as per IEC/EN 61439

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|--|------------|----|-----|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I_n | A | 100 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 9.1 |
| 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 | 55 |
| linear, per +1 °C, results in a 0.35% reduction of current carrying capacity | | | |

Technical data ETIM 7.0

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| 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 | 100 |
| Rated voltage | | V | 400 |
| 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 | 20 |
| Rated short-circuit breaking capacity I_{cu} IEC 60947-2 at 400 V | | kA | 20 |
| 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 | | 1.5 |
| Built-in depth | mm | 69.5 |
| Degree of protection (IP) | | IP20 |
| Ambient temperature during operating | °C | -25 - 55 |
| Connectable conductor cross section multi-wired | mm ² | 2.5 - 50 |
| Connectable conductor cross section solid-core | mm ² | 2.5 - 50 |