

Miniature circuit breaker (MCB), 25 A, 1p, characteristic: C

Part no. HL-C25/1
 Catalog No. 194733

Delivery program

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|--|----------|----|--|
| Basic function | | | Miniature circuit-breakers |
| Number of poles | | | 1 pole |
| Tripping characteristic | | | C |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | I_n | A | 25 |
| Rated switching capacity according to IEC/EN 60898-1 | I_{cn} | kA | 4.5 |
| Product range | | | HL |

Technical data

Electrical

| | | | |
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| Rated switching capacity according to IEC/EN 60898-1 | I_{cn} | kA | 4.5 |
|--|----------|----|-----|

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 | 25 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 3 |
| 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. |

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| 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 8.0

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)
(ecI@ss10.0.1-27-14-19-01 [AAB905014])

| | | |
|---|-----------------|----------|
| Built-in depth | mm | 44 |
| Release characteristic | | C |
| Number of poles (total) | | 1 |
| Number of protected poles | | 1 |
| Rated current | A | 25 |
| Rated voltage | V | 230 |
| Rated insulation voltage Ui | V | 440 |
| Rated impulse withstand voltage Uimp | kV | 4 |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 230 V | kA | 4.5 |
| Voltage type | | AC |
| Rated short-circuit breaking capacity Icn according to EN 60898 at 400 V | kA | 4.5 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 230 V | kA | 0 |
| Rated short-circuit breaking capacity Icu according to IEC 60947-2 at 400 V | kA | 0 |
| Frequency | Hz | 50 - 60 |
| Current limiting class | | 3 |
| Flush-mounted installation | | Yes |
| Concurrently switching neutral conductor | | No |
| Over voltage category | | 3 |
| Pollution degree | | 3 |
| Additional equipment possible | | Yes |
| Width in number of modular spacings | | 1 |
| Degree of protection (IP) | | IP20 |
| Ambient temperature during operating | °C | -25 - 75 |
| Connectable conductor cross section multi-wired | mm ² | 1 - 25 |
| Connectable conductor cross section solid-core | mm ² | 1 - 25 |
| Explosion-proof | | No |