

**Miniature circuit breaker (MCB), 6 A, 1p, characteristic: C**

Part no. mMCM-C6/1
Catalog No. 138876

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 | 6 |
| Rated switching capacity according to IEC/EN 60898-1 | I_{cn} | kA | 10 |
| Product range | | | mMCM |

Technical data**Electrical**

| | | | |
|--|------------|----|---------|
| Rated switching capacity according to IEC/EN 60898-1 | I_{cn} | kA | 10 |
| Rated insulation voltage | U_i | V | 440 |
| Rated impulse withstand voltage | U_{imp} | kV | 4 |
| lifespan | | | |
| Electrical | Operations | | ≥ 10000 |
| Mechanical | Operations | | ≥ 20000 |

References

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|---|--|--|---------------------|
| Auxiliary switch for subsequent installation | | | ZP-IHK 286052 |
| Tripping signal contact for subsequent installation | | | ZP-NHK 248437 |
| Remote control and automatic switching device | | | Z-FW/LP 248296 |
| Switching interlock | | | Z-IS/SPE-1TE 274418 |

Mechanical

| | | | |
|------------------------------|--|----|---|
| Standard front dimension | | mm | 45 |
| Device height | | mm | 80 |
| Mounting | | | Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 |
| Degree of Protection | | | IP20 |
| Terminals top and bottom | | | Open mouthed/lift terminals |
| Terminal protection | | | BGV A3, ÖVE-EN 6 |
| Thickness of busbar material | | mm | 0.8 - 2 |

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 | 6 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 1.5 |
| 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. |

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| 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 5.0

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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) (ecI@ss8-27-14-19-01 [AAB905010]) | | | |
| Release characteristic | | | C |
| Number of poles (total) | | | 1 |
| Rated current | | A | 6 |
| Rated voltage | | V | 230 |
| Rated short-circuit breaking capacity EN 60898 | | kA | 10 |
| Rated short-circuit breaking capacity IEC 60947-2 | | kA | 0 |
| Voltage type | | | AC |
| Current limiting class | | | 3 |
| Frequency | | Hz | 50 |
| Concurrently switching N-neutral | | | 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 |