DATASHEET - MMCM-C6/1N



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

mMCM-C6/1N Part no. Catalog No. 139356



Delivery program

| Basic function | | | Miniature circuit-breakers |
|--|-----------------|----|--|
| Number of poles | | | 1 pole+N |
| Tripping characteristic | | | C |
| Application | | | Switchgear for residential and commercial applications |
| Rated current | In | Α | 6 |
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 10 |
| Product range | | | mMCM |

Technical data

Electrical

| Liberion | | | |
|--|------------------|----|---------|
| Rated switching capacity according to IEC/EN 60898-1 | I _{cn} | kA | 10 |
| Rated insulation voltage | \mathbf{U}_{i} | V | 440 |
| Rated impulse withstand voltage | U_{imp} | kV | 4 |
| lifespan | | | |
| Electrical | Operations | | ≧ 10000 |
| Mechanical | Operations | | ≧ 20000 |
| References | | | |

Keterences

| 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

| mm | 45 |
|----|---|
| mm | 80 |
| | Quick attachment with 3 latch positions for top-hat rail IEC/EN 60715 |
| | IP20 |
| | Open mouthed/lift terminals |
| | BGV A3, ÖVE-EN 6 |
| mm | 0.8 - 2 |
| | mm |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation | In | Α | 6 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 1.6 |
| 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 | Meets the product standard's requirements. |
|--|--|
| and fire due to internal electric effects | weets 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 observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

| 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) | | 2 | |
| Number of protected poles | | 1 | |
| Rated current | Α | 6 | |
| Rated voltage | V | 230 | |
| Rated insulation voltage Ui | V | 440 | |
| Rated impulse withstand voltage Uimp | kV | 4 | |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V | kA | 10 | |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V | kA | 10 | |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 15 | |
| Rated short-circuit breaking capacity Icu 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 | mm² | 1 - 25 | |
| Connectable conductor cross section solid-core | mm² | 1 - 25 | |
| | | | |