



**Miniature circuit breaker (MCB), 20 A, 2p, characteristic: C**

**Part no.** PLS6-C20/2-MW  
**Catalog No.** 242881

Similar to illustration

**Delivery program**

|  |          |    |  |
|--|----------|----|--|
| Basic function                                       |          |    | Miniature circuit-breakers                             |
| Number of poles                                      |          |    | 2 pole   |
| Tripping characteristic                              |          |    | C  |
| Application  |          |    | Switchgear for residential and commercial applications |
| Rated current  | $I_n$    | A  | 20   |
| Rated switching capacity according to IEC/EN 60898-1 | $I_{cn}$ | kA | 6  |
| Product range  |          |    | PLS6   |

**Technical data**

**Electrical**

|  |          |    |   |
|--|----------|----|---|
| Rated switching capacity according to IEC/EN 60898-1 | $I_{cn}$ | kA | 6 |
|--|----------|----|---|

**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  | 6.6  |
| 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 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 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)<br>(ecl@ss10.0.1-27-14-19-01 [AAB905014]) |  |                 |          |
| Release characteristic   |  |                 | C        |
| Number of poles (total)  |  |                 | 2        |
| Number of protected poles  |  |                 | 2        |
| Rated current  |  | A               | 20       |
| 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              | 6        |
| Rated short-circuit breaking capacity $I_{cn}$ EN 60898 at 400 V   |  | kA              | 6        |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 230 V  |  | kA              | 0        |
| Rated short-circuit breaking capacity $I_{cu}$ IEC 60947-2 at 400 V  |  | kA              | 0        |
| 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  |  |                 | 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   |