## DATASHEET - PXL-C50/3

## Miniature circuit breaker (MCB), 50 A, 3p, characteristic: C



Part no.

Catalog No.

PXL-C50/3 236431



Similar to illustration

| Delivery program  |                   |    |  |
|---|-------------------|----|--|
| Basic function  |                   |    | Miniature circuit-breakers   |
| Number of poles   |                   |    | 3 pole   |
| ripping characteristic  |                   |    | С  |
| Application   |                   |    | Switchgear for residential and commercial applications                                       |
| Rated current   | I <sub>n</sub>    | А  | 50   |
| Rated switching capacity according to IEC/EN 60898-1  | I <sub>cn</sub>   | kA | 10   |
| Product range   |                   |    | PXL  |
| Fechnical data  |                   |    |  |
| Rated switching capacity according to IEC/EN 60898-1  | I <sub>cn</sub>   | kA | 10   |
| Design verification as per IEC/EN 61439   |                   |    |  |
| Technical data for design verification  |                   |    |  |
| Rated operational current for specified heat dissipation  | I <sub>n</sub>    | А  | 50   |
| Heat dissipation per pole, current-dependent  | P <sub>vid</sub>  | w  | 0  |
| Equipment heat dissipation, current-dependent   | P <sub>vid</sub>  | w  | 14.9   |
| Static heat dissipation, non-current-dependent  | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity   | P <sub>diss</sub> | w  | 0  |
| Operating ambient temperature min.  | ' diss            | °C | -25  |
|   |                   | °C | -23  |
| Operating ambient temperature max.  |                   | U  | <sup>75</sup><br>linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| EC/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<br>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.   |
| - *   |                   |    | · · ·  |

| 10.11 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, devi<br>(ecl@ss10.0.1-27-14-19-01 [AAB905014]) | ce / Miniature cir | rcuit breaker system (MCB) / Miniature circuit breaker (MCB) |
|---|--------------------|--|
| Release characteristic  |                    | c  |
| Number of poles (total)   |                    | 3  |
| Number of protected poles   |                    | 3  |
| Rated current   | А                  | 50   |
| Rated voltage   | V                  | 400  |
| 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                 | 0  |
| Rated short-circuit breaking capacity Icu 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   |                    | 3  |
| Built-in depth  | mm                 | 70.5   |
| Degree of protection (IP)   |                    | IP20   |
| Ambient temperature during operating  | °C                 | -25 - 55   |
| Connectable conductor cross section multi-wired   | mm²                | 1 - 25   |
| Connectable conductor cross section solid-core  | mm²                | 1 - 25   |
|   |                    |  |