

## Over current switch, 16A, 4p, C-Char, AC

Part no. PXL-C16/4 Article no. 236616



Similar to illustration

|  | program |
|--|---------|
|  |         |
|  |         |

| - 1  |  |    |  |
|--|--|----|--|
| Basic function                                       |  |    | Miniature circuit breakers                             |
| Number of poles                                      |  |    | 4 pole   |
| Tripping characteristic                              |  |    | С  |
| Application  |  |    | Switchgear for residential and commercial applications |
| Rated current  |  | Α  | 16   |
| Rated switching capacity according to IEC/EN 60898-1 |  | kA | 10   |
| Product range  |  |    | PXL  |

## **Design verification as per IEC/EN 61439**

| Design verification as per IEC/EN 61439  |  |    |  |
|--|--|----|--|
| Technical data for design verification   |  |    |  |
| Rated operational current for specified heat dissipation   |  | Α  | 16   |
| Heat dissipation per pole, current-dependent   |  | W  | 0  |
| Equipment heat dissipation, current-dependent  |  | W  | 8.8  |
| Static heat dissipation, non-current-dependent   |  | W  | 0  |
| Heat dissipation capacity  |  | 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 6.0**

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@ss8.1-27-14-19-01 [AAB905011])

| Number of poles (total)  Number of protected poles  Nominal rated current  Nominal rated current  Nominal rated voltage Rated short-circuit breaking capacity Icn EN 60898 at 230 V  Rated short-circuit breaking capacity Icn EN 60898 at 400 V  Rated short-circuit breaking capacity Icn EN 60998 at 400 V  Rated short-circuit breaking capacity Icn EN 60998 at 400 V  Rated short-circuit breaking capacity Icn EC 60947-2 at 230 V  Rated short-circuit breaking capacity Icn IEC 60947-2 at 400 V  Voltage type  Current limiting class  Frequency  Hz  So-60  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Built-in depth  Additional equipment possible  | [AAB905011])   |    |         |
|--|--|----|---------|
| Number of protected poles         4           Nominal rated current         A         16           Nominal rated voltage         V         400           Rated short-circuit breaking capacity Icn EN 60898 at 230 V         kA         10           Rated short-circuit breaking capacity Icu 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         AC           Current limiting class         3         3           Frequency         Hz         50 - 60           Concurrently switching N-neutral         No         No           Suitable for flush-mounted installation         No         No           Over voltage category         2         3           Pollution degree         2         2           Width in number of modular spacings         mm         70.5           Built-in depth         mm         70.5           Additional equipment possible         Yes   | Release characteristic   |    | С       |
| Nominal rated current Nominal rated voltage Nominal rated voltage Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class Frequency Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible   | Number of poles (total)  |    | 4       |
| Nominal rated voltage Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  V 400  kA 10  C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Number of protected poles                                      |    | 4       |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  KA  10  10  10  10  10  10  10  10  10  1   | Nominal rated current  | Α  | 16      |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree  Width in number of modular spacings  Additional equipment possible  kA  0  C  Current limiting class 3  S  Over voltage category Additional equipment possible  kA  0  Concurrently switching N-neutral No  No  Concurrently switching N-neutral No  No  Additional equipment possible  kA  10  0  AC  C  C  C  C  C  C  C  C  C  C  C  C  | Nominal rated voltage  | V  | 400     |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  Current limiting class  Frequency  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Additional equipment possible  kA  0  C  C  C  C  C  C  C  C  C  C  C  C   | Rated short-circuit breaking capacity Icn EN 60898 at 230 V    | kA | 10      |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V Voltage type  AC Current limiting class  Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth Additional equipment possible  KA  0  AC  AC  3  Frequency No  No  No  2  4  Built-in depth Mm 70.5  Additional equipment possible  | Rated short-circuit breaking capacity Icn EN 60898 at 400 V    | kA | 10      |
| Voltage type Current limiting class Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Built-in depth AC  AC  AC  AC  AC  Suitable for 60  No  No  2  4  2  Width in number of modular spacings Built-in depth Additional equipment possible  No  70.5  Yes   | Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 0       |
| Current limiting class  Frequency  Concurrently switching N-neutral  Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Additional equipment possible  John Concurrently switching N-neutral  No  2  2  Width in number of modular spacings  Mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm  | Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | kA | 0       |
| Frequency Concurrently switching N-neutral Suitable for flush-mounted installation Over voltage category Pollution degree Width in number of modular spacings Additional equipment possible  Hz 50 - 60  No No  No Suitable for flush-mounted installation No 2 2 4 4 Full time the time t | Voltage type   |    | AC      |
| Concurrently switching N-neutral  Suitable for flush-mounted installation  Over voltage category  Pollution degree  Width in number of modular spacings  Mo  2  Width in number of modular spacings  mm  70.5  Additional equipment possible   | Current limiting class   |    | 3       |
| Suitable for flush-mounted installation  Over voltage category  Pollution degree  Vidth in number of modular spacings  Built-in depth  Additional equipment possible  No  2  4  Fundament possible  No  3  7  4  Fundament possible  No  3  7  7  7  7  7  7  7  7  7  7  7  7   | Frequency  | Hz | 50 - 60 |
| Over voltage category     3       Pollution degree     2       Width in number of modular spacings     4       Built-in depth     mm     70.5       Additional equipment possible     Yes  | Concurrently switching N-neutral                               |    | No      |
| Pollution degree 2 Width in number of modular spacings 4 Built-in depth mm 70.5 Additional equipment possible Yes  | Suitable for flush-mounted installation                        |    | No      |
| Width in number of modular spacings 4  Built-in depth mm 70.5  Additional equipment possible Yes   | Over voltage category  |    | 3       |
| Built-in depth mm 70.5 Additional equipment possible Yes   | Pollution degree   |    | 2       |
| Additional equipment possible  Yes   | Width in number of modular spacings                            |    | 4       |
|  | Built-in depth   | mm | 70.5    |
| Degree of protection (IP)  | Additional equipment possible                                  |    | Yes     |
|  | Degree of protection (IP)                                      |    | IP20    |