



RCD/MCB combination switch, 16A, 0.3A, C-LS\_Char, 1Np, A-FI\_Char



Part no. **PXK-C16/1N/03-A**  
Article no. **236972**

Similar to illustration

Delivery program

|  |                |    |  |
|--|----------------|----|--|
| Basic function                                     |                |    | Combined RCD/MCB devices                               |
| Number of poles                                    |                |    | 1 pole+N   |
| Tripping characteristic                            |                |    | C  |
| Application  |                |    | Switchgear for residential and commercial applications |
| Rated current                                      | $I_n$          | A  | 16   |
| Rated switching capacity according to IEC/EN 61009 |                | kA | 10   |
| Rated fault current                                | $I_{\Delta N}$ | A  | 0.3  |
| Type   |                |    | Type A   |
| Tripping   |                | A  | non-delayed  |
| Product range                                      |                |    | PXK  |
| Sensitivity  |                |    | Pulse-current sensitive                                |
| Impulse withstand current                          |                |    | Partly surge-proof 250 A                               |

Technical data

Electrical

|             |  |  |                         |
|-------------|--|--|-------------------------|
| Sensitivity |  |  | Pulse-current sensitive |
|-------------|--|--|-------------------------|

Design verification as per IEC/EN 61439

|  |            |    |  |
|--|------------|----|--|
| Technical data for design verification   |            |    |  |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 16   |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 0  |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 3.6  |
| 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 | 40   |
|  |            |    | 0  |
| 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) / Earth leakage circuit breaker (EC000905)  |  |    |       |
| Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss8.1-27-14-22-07 [AFZ810012]) |  |    |       |
| Number of poles (total)   |  |    | 2     |
| Number of protected poles   |  |    | 1     |
| Nominal rated voltage   |  | V  | 240   |
| Nominal rated current   |  | A  | 16    |
| Rated fault current   |  | A  | 0.3   |
| Leakage current type  |  |    | A     |
| Current limiting class  |  |    | 3     |
| Rated short-circuit breaking capacity EN 60898  |  | kA | 10    |
| Rated short-circuit breaking capacity IEC 60947-2   |  | kA | 0     |
| Frequency   |  |    | 50 Hz |
| Release characteristic  |  |    | C     |
| Concurrently switching N-neutral  |  |    | Yes   |
| Over voltage category   |  |    | 3     |
| Pollution degree  |  |    | 2     |
| Width in number of modular spacings   |  |    | 2     |
| Built-in depth  |  | mm | 69.5  |
| Suitable for flush-mounted installation   |  |    | No    |
| Degree of protection (IP)   |  |    | IP20  |
| Surge current capacity  |  | kA | 0.25  |
| Voltage type  |  |    | AC    |
| Antinuisance tripping version   |  |    | No    |