# DATASHEET - PKE-XTUA-65

**Trip block, 16 - 65 A, Motor protection, Connection to SmartWire-DT: yes, For use with: PKE65 basic device**

Powering Business Worldwide

| | |
|---|---|
| **Part no.** | **PKE-XTUA-65** |
| | **138260** |
| **EL Number (Norway)** | **4355195** |

## General specifications

| | |
|---|---|
| Product name | Eaton Moeller® series PKE Trip block |
| Part no. | PKE-XTUA-65 |
| EAN | 4015081350407 |
| Product Length/Depth | 84.4 millimetre |
| Product height | 69.9 millimetre |
| Product width | 55 millimetre |
| Product weight | 0.238 kilogram |
| Certifications | IEC/EN 60947-4-1<br>UL File No.: E36332<br>VDE 0660<br>CSA-C22.2 No. 14-10<br>UL<br>UL 508<br>UL Category Control No.: NLRV<br>IEC/EN 60947<br>CSA File No.: 165628<br>CSA<br>CE<br>CSA Class No.: 3211-05 |
| Product Tradename | PKE |
| Product Type | Accessory |
| Product Sub Type | Trip block |
| Catalog Notes | This is a product for Environment A (Industrial). In environment B (household) this device may cause undesirable radio interference. In this case the user may be obliged to take appropriate measures. |

## Features & Functions

| | |
|---|---|
| Features | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| Functions | Motor protection for heavy starting duty<br>Overload release<br>Motor protection |
| Number of poles | Three-pole |

## General information

| | |
|---|---|
| Current flow times - min | 1000 (Class 20) AC-4 cycle operation, Main conducting paths<br>For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.<br>500 (Class 5) AC-4 cycle operation, Main conducting paths<br>900 (Class 15) AC-4 cycle operation, Main conducting paths<br>700 (Class 10) AC-4 cycle operation, Main conducting paths<br>Note: Going below the minimum current flow time can cause overheating of the load (motor). |
| Cut-out periods - min | ≤ 500 ms, main conducting paths, AC-4 cycle operation |
| Degree of protection | Device: IP20<br>Terminals: IP00 |
| Operating frequency | 60 Operations/h |
| Overload release current setting - min | 16 A |
| Overload release current setting - max | 65 A |
| Overvoltage category | III |
| Pollution degree | 3 |
| Product category | Accessories |
| Protection | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| Rated impulse withstand voltage (Uimp) | 6000 V AC |
| Temperature compensation | -5 - 40 °C to IEC/EN 60947, VDE 0660<br>-25 - 55 °C, Operating range |
| Voltage type | Self powered |

## Ambient conditions, mechanical

| | |
|---|---|
| Shock resistance | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| **Climatic environmental conditions** | |
| Altitude | Max. 2000 m |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 55 °C |
| Ambient operating temperature (enclosed) - min | 25 °C |
| Ambient operating temperature (enclosed) - max | 40 °C |
| Ambient storage temperature - min | 40 °C |
| Ambient storage temperature - max | 80 °C |
| Climatic proofing | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |
| **Electrical rating** | |
| Rated frequency - min | 50 Hz |
| Rated frequency - max | 60 Hz |
| Rated operational current (Ie) | 65 A |
| Rated operational voltage (Ue) at AC - max | 690 V |
| Rated uninterrupted current (Iu) | 65 A |
| Supply voltage at AC, 50 Hz - min | 690 V |
| Supply voltage at AC, 50 Hz - max | 690 V |
| **Short-circuit rating** | |
| Short-circuit release | Trip block fixed 15.5 x Ir<br>± 20% tolerance, Trip blocks<br>Delayed approx. 60 ms, Trip blocks |
| **Switching capacity** | |
| Switching capacity at AC-3 (up to 690 V) | 65 A |
| **Magnet system** | |
| Rated control supply voltage (Us) at AC, 50 Hz - min | 0 V |
| Rated control supply voltage (Us) at AC, 50 Hz - max | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - min | 0 V |
| Rated control supply voltage (Us) at AC, 60 Hz - max | 0 V |
| Rated control supply voltage (Us) at DC - min | 0 V |
| Rated control supply voltage (Us) at DC - max | 0 V |
| **Communication** | |
| Connection to SmartWire-DT | In conjunction with PKE-SWD-SP SmartWire DT PKE module<br>Yes |
| **Contacts** | |
| Number of auxiliary contacts (change-over contacts) | 0 |
| Number of auxiliary contacts (normally closed contacts) | 0 |
| Number of auxiliary contacts (normally open contacts) | 0 |
| **Design verification** | |
| Equipment heat dissipation, current-dependent Pvid | 9.3 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 3.1 W |
| Rated operational current for specified heat dissipation (In) | 65 A |
| Static heat dissipation, non-current-dependent Pvs | 0 W |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 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 9.0

Low-voltage industrial components (EG000017) / Trip block for power circuit-breaker (EC000617)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss13-27-37-04-10 [AKF008018])

| | | | |
|---|---|---|---|
| Type of motor protection | | | Electronic release |
| Number of poles | | | 3 |
| Rated permanent current Iu | | A | 65 |
| Rated switch current | | A | 65 |
| Overload release current setting | | A | 16 - 65 |
| Short-circuit release function | | | Delayed |
| Current setting delayed short-circuit release | | A | |
| Current setting undelayed short-circuit release | | A | |
| With ground fault protection function | | | |
| External power supply required | | | |
| Voltage type (supply voltage) | | | AC |
| Supply voltage AC 50 Hz | | V | 690 - 690 |
| Supply voltage AC 60 Hz | | V | 690 - 690 |
| Supply voltage DC | | V | |
| Number of auxiliary contacts as normally closed contact | | | 0 |
| Number of auxiliary contacts as normally open contact | | | 0 |
| Number of auxiliary contacts as change-over contact | | | 0 |
| Voltage type (operating voltage) | | | AC |
| Operating voltage AC 50 Hz | | V | 690 - 690 |
| Operating voltage AC 60 Hz | | V | 690 - 690 |
| Operating voltage DC | | V | 690 - 690 |
| Width | | mm | 55 |
| Height | | mm | 69.9 |
| Depth | | mm | 84.4 |


© 04/2023 by Eaton Industries GmbH