

# Specifications



Photo is representative



## Eaton 121728

Eaton Moeller® series PKE Trip block, 1 - 4 A, Motor protection, Connection to SmartWire-DT: yes, For use with: PKE12 basic device, PKE32 basic device

### General specifications

|                             |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series PKE Trip block                                                                                                                                                                       |
| <b>CATALOG NUMBER</b>       | 121728                                                                                                                                                                                                     |
| <b>MODEL CODE</b>           | PKE-XTUA-4                                                                                                                                                                                                 |
| <b>EAN</b>                  | 4015081195381                                                                                                                                                                                              |
| <b>PRODUCT LENGTH/DEPTH</b> | 41.6 mm                                                                                                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 64.2 mm                                                                                                                                                                                                    |
| <b>PRODUCT WIDTH</b>        | 45 mm                                                                                                                                                                                                      |
| <b>PRODUCT WEIGHT</b>       | 0.086 kg                                                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | UL 508<br>VDE 0660<br>CSA Class No.: 3211-05<br>UL File No.: E36332<br>CE<br>UL Category Control No.: NLRV<br>IEC/EN 60947-4-1<br>UL<br>CSA-C22.2 No. 14-10<br>IEC/EN 60947<br>CSA File No.: 165628<br>CSA |
| <b>CATALOG NOTES</b>        | 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.    |

## Ambient conditions, mechanical

|                         |                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------|
| <b>SHOCK RESISTANCE</b> | 25 g, Mechanical,<br>according to IEC/EN<br>60068-2-27, Half-<br>sinusoidal shock 10 ms |
|-------------------------|-----------------------------------------------------------------------------------------|

## Communication

|                                       |                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONNECTION TO<br/>SMARTWIRE-DT</b> | Yes<br>In conjunction with PKE-<br>SWD-32 SmartWire DT PKE<br>module<br>In conjunction with PKE-<br>SWD-SP SmartWire DT PKE<br>module |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|

## Climatic environmental conditions

|                                                               |                                                                                      |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>ALTITUDE</b>                                               | Max. 2000 m                                                                          |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MAX</b>                | 55 °C                                                                                |
| <b>AMBIENT STORAGE<br/>TEMPERATURE - MAX</b>                  | 80 °C                                                                                |
| <b>AMBIENT OPERATING<br/>TEMPERATURE - MIN</b>                | -25 °C                                                                               |
| <b>AMBIENT OPERATING<br/>TEMPERATURE<br/>(ENCLOSED) - MAX</b> | 40 °C                                                                                |
| <b>AMBIENT OPERATING<br/>TEMPERATURE<br/>(ENCLOSED) - MIN</b> | 25 °C                                                                                |
| <b>AMBIENT STORAGE<br/>TEMPERATURE - MIN</b>                  | 40 °C                                                                                |
| <b>CLIMATIC PROOFING</b>                                      | Damp heat, constant, to<br>IEC 60068-2-78<br>Damp heat, cyclic, to IEC<br>60068-2-30 |

## Contacts

|                                                                        |   |
|------------------------------------------------------------------------|---|
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (CHANGE-<br/>OVER CONTACTS)</b>    | 0 |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>CLOSED CONTACTS)</b> | 0 |
| <b>NUMBER OF AUXILIARY<br/>CONTACTS (NORMALLY<br/>OPEN CONTACTS)</b>   | 0 |

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION</b>                                                                  | Does not apply, since the                                                                                                        |

## Electrical rating

|                                                   |       |
|---------------------------------------------------|-------|
| <b>RATED FREQUENCY - MAX</b>                      | 60 Hz |
| <b>RATED FREQUENCY - MIN</b>                      | 50 Hz |
| <b>RATED OPERATIONAL CURRENT (IE)</b>             | 4 A   |
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b> | 690 V |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>           | 4 A   |
| <b>SUPPLY VOLTAGE AT AC, 50 HZ - MAX</b>          | 690 V |
| <b>SUPPLY VOLTAGE AT AC, 50 HZ - MIN</b>          | 690 V |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | entire switchgear needs to be evaluated.                           |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>             | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                              | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>      | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0.6 W                                                              |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 0.2 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 4 A                                                                |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

## Features & functions

|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>FEATURES</b>        | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)     |
| <b>FUNCTIONS</b>       | Motor protection for heavy starting duty<br>Overload release<br>Motor protection |
| <b>NUMBER OF POLES</b> | Three-pole                                                                       |

## General information

|                                 |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CURRENT FLOW TIMES - MIN</b> | 900 (Class 15) AC-4 cycle operation, Main conducting paths<br>Note: Going below the minimum current flow time can cause overheating of the load (motor).<br>500 (Class 5) 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>700 (Class 10) AC-4 cycle |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                               |                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                               | operation, Main conducting paths<br>1000 (Class 20) AC-4 cycle operation, Main conducting paths      |
| <b>CUT-OUT PERIODS - MIN</b>                  | ≤ 500 ms, main conducting paths, AC-4 cycle operation                                                |
| <b>DEGREE OF PROTECTION</b>                   | Terminals: IP00<br>Device: IP20                                                                      |
| <b>OPERATING FREQUENCY</b>                    | 60 Operations/h                                                                                      |
| <b>OVERLOAD RELEASE CURRENT SETTING - MAX</b> | 4 A                                                                                                  |
| <b>OVERLOAD RELEASE CURRENT SETTING - MIN</b> | 1 A                                                                                                  |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                  |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                    |
| <b>PRODUCT CATEGORY</b>                       | Accessories                                                                                          |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                            |
| <b>TEMPERATURE COMPENSATION</b>               | -5 - 40 °C to IEC/EN 60947, VDE 0660<br>-25 - 55 °C, Operating range                                 |
| <b>VOLTAGE TYPE</b>                           | Self powered                                                                                         |

## Magnet system

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 50  
HZ - MAX** 0 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 50  
HZ - MIN** 0 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 60  
HZ - MAX** 0 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT AC, 60  
HZ - MIN** 0 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT DC -  
MAX** 0 V

**RATED CONTROL SUPPLY  
VOLTAGE (US) AT DC -  
MIN** 0 V

## Switching capacity

**SWITCHING CAPACITY AT  
AC-3 (UP TO 690 V)** 4 A

## Short-circuit rating

### SHORT-CIRCUIT RELEASE

Trip block fixed 15.5 x I<sub>r</sub>  
± 20% tolerance, Trip  
blocks  
Delayed approx. 60 ms,  
Trip blocks

## Resources

### BROCHURES

[eaton-motor-starters-  
system-xstart-brochure-  
br03407001en-en-us.pdf](#)

[eaton-motor-protective-  
circuit-breaker-pke-and-  
communication-modul-  
pke-brochure-  
w12107613en-en-us.pdf](#)

### CATALOGUES

[eaton-product-overview-  
for-machinery-catalogue-  
ca08103003zen-en-us.pdf](#)

### CHARACTERISTIC CURVE

[eaton-manual-motor-  
starters-pke65-  
characteristic-curve-  
005.eps](#)

### DECLARATIONS OF CONFORMITY

[eaton-system-protective-  
circuit-breaker-  
declaration-of-conformity-  
eu250694en.pdf](#)

[eaton-system-protective-  
circuit-breaker-  
declaration-of-conformity-  
uk251177en.pdf](#)

### DRAWINGS

[eaton-manual-motor-  
starters-pke-trip-block-3d-  
drawing-002.eps](#)

[eaton-manual-motor-  
starters-mounting-3d-  
drawing.eps](#)

|                           |                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a>                                           |
| ECAD MODEL                | <a href="#">ETN.121728.edz</a>                                                                                |
| INSTALLATION INSTRUCTIONS | <a href="#">eaton-trip-block-pke-xtu-for-pke12-pke32-il034011zu.pdf</a>                                       |
| INSTALLATION VIDEOS       | <a href="#">Video Motor Protective Circuit Breaker PKE</a><br><a href="#">WIN-WIN with push-in technology</a> |
| MANUALS AND USER GUIDES   | <a href="#">eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf</a>                                |
| MCAD MODEL                | <a href="#">eaton-accessories-mcad-drawings-pke-xtu12.dwg</a><br><a href="#">DA-CS-pke_xtu12</a>              |
| SALES NOTES               | <a href="#">eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf</a>                                         |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



**Eaton Corporation plc** Eaton House  
 30 Pembroke Road  
 Dublin 4, Ireland  
 Eaton.com

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