# Specifications







## Eaton 138259

Eaton Moeller® series PKE Trip block, 16 - 65 A, Motor protection, Connection to SmartWire-DT: no, For use with: PKE65 basic device

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton Moeller® series PKE Trip block |
| **CATALOG NUMBER** | 138259 |
| **MODEL CODE** | PKE-XTU-65 |
| **EAN** | 4015081350391 |
| **PRODUCT LENGTH/DEPTH** | 84.4 mm |
| **PRODUCT HEIGHT** | 69.9 mm |
| **PRODUCT WIDTH** | 55 mm |
| **PRODUCT WEIGHT** | 0.238 kg |
| **CERTIFICATIONS** | UL<br>VDE 0660<br>CSA Class No.: 3211-05<br>IEC/EN 60947<br>IEC/EN 60947-4-1<br>UL Category Control No.: NLRV<br>CSA-C22.2 No. 14-10<br>UL 508<br>UL File No.: E36332<br>CSA<br>CSA File No.: 165628<br>CE |
| **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. |

## Ambient conditions, mechanical

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| **SHOCK RESISTANCE** | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |

## Climatic environmental conditions

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

## Communication

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| **CONNECTION TO SMARTWIRE-DT** | No |

## Contacts

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| **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

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| **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. |
| **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. |

## Electrical rating

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| **RATED FREQUENCY - MAX** | 60 Hz |
| **RATED FREQUENCY - MIN** | 50 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 - MAX** | 690 V |
| **SUPPLY VOLTAGE AT AC, 50 HZ - MIN** | 690 V |

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| **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. |
| **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 |

## Features & functions

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| **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

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| **CURRENT FLOW TIMES - MIN** | 500 (Class 5) AC-4 cycle operation, Main conducting paths<br>900 (Class 15) AC-4 cycle operation, Main conducting paths<br>1000 (Class 20) AC-4 cycle operation, Main conducting paths<br>Note: Going below the minimum current flow time can cause overheating of the load (motor).<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 |
| **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 - MAX** | 65 A |
| **OVERLOAD RELEASE CURRENT SETTING - MIN** | 16 A |
| **OVERVOLTAGE** | III |

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| **CATEGORY** | |
| **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 |
| **USED WITH** | Motor-protective circuit breaker |
| **VOLTAGE TYPE** | Self powered |

## Magnet system

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| **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 |

## Short-circuit rating

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| **SHORT-CIRCUIT RELEASE** | Delayed approx. 60 ms, Trip blocks<br>Trip block fixed 15.5 x Ir<br>± 20% tolerance, Trip blocks |

## Switching capacity

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| **SWITCHING CAPACITY AT AC-3 (UP TO 690 V)** | 65 A |

## Resources

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|---|---|
| **BROCHURES** | eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf<br>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-uk251177en.pdf |

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|---|---|
| | eaton-system-protective-circuit-breaker-declaration-of-conformity-eu250694en.pdf |
| **DRAWINGS** | eaton-manual-motor-starters-pke-trip-block-3d-drawing.eps<br><br>eaton-manual-motor-starters-mounting-3d-drawing.eps |
| **ECAD MODEL** | ETN.138259.edz |
| **INSTALLATION INSTRUCTIONS** | IL034013ZU |
| **INSTALLATION VIDEOS** | WIN-WIN with push-in technology<br><br>Video Motor Protective Circuit Breaker PKE |
| **MANUALS AND USER GUIDES** | eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf |
| **MCAD MODEL** | DA-CS-pke_xtu65<br><br>eaton-accessories-mcad-drawings-pke-xtu65.dwg |
| **SALES NOTES** | eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf |

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|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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