

# 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

<b>PRODUCT NAME</b>	Eaton Moeller® series PKE Trip block
<b>CATALOG NUMBER</b>	138259
<b>MODEL CODE</b>	PKE-XTU-65
<b>EAN</b>	4015081350391
<b>PRODUCT LENGTH/DEPTH</b>	84.4 mm
<b>PRODUCT HEIGHT</b>	69.9 mm
<b>PRODUCT WIDTH</b>	55 mm
<b>PRODUCT WEIGHT</b>	0.238 kg

UL  
VDE 0660  
CSA Class No.: 3211-05  
IEC/EN 60947  
IEC/EN 60947-4-1  
UL Category Control No.:  
NLRV  
CSA-C22.2 No. 14-10  
UL 508  
UL File No.: E36332  
CSA  
CSA File No.: 165628  
CE

<b>CERTIFICATIONS</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.
<b>CATALOG NOTES</b>	

## 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 Overload release Motor protection
<b>NUMBER OF POLES</b>	Three-pole

## General

<b>CURRENT FLOW TIMES - MIN</b>	500 (Class 5) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths 1000 (Class 20) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.
<b>CUT-OUT PERIODS - MIN</b>	700 (Class 10) AC-4 cycle operation, Main conducting paths
<b>DEGREE OF PROTECTION</b>	Device: IP20 Terminals: IP00
<b>OPERATING FREQUENCY</b>	60 Operations/h
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	16 A
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	65 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 -25 - 55 °C, Operating range
<b>USED WITH</b>	Motor-protective circuit breaker
<b>VOLTAGE TYPE</b>	Self powered

## Ambient conditions, mechanical

<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
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## Climatic environmental conditions

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

## Electrical rating

<b>RATED FREQUENCY - MIN</b>	50 Hz
<b>RATED FREQUENCY - MAX</b>	60 Hz
<b>RATED OPERATIONAL CURRENT (IE)</b>	65 A
<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	65 A
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MIN</b>	690 V
<b>SUPPLY VOLTAGE AT AC, 50 HZ - MAX</b>	690 V

## Short-circuit rating

<b>SHORT-CIRCUIT RELEASE</b>	Delayed approx. 60 ms, Trip blocks Trip block fixed 15.5 x Ir ± 20% tolerance, Trip blocks
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## Switching capacity

<b>SWITCHING CAPACITY AT AC-3 (UP TO 690 V)</b>	65 A
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## Magnet system

<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V

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

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

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

## Communication

**CONNECTION TO** SMARTWIRE-DT No

## Contacts

**NUMBER OF AUXILIARY**  
**CONTACTS (CHANGE-** 0  
**OVER CONTACTS)**

**NUMBER OF AUXILIARY**  
**CONTACTS (NORMALLY** 0  
**CLOSED CONTACTS)**

**NUMBER OF AUXILIARY**  
**CONTACTS (NORMALLY** 0  
**OPEN CONTACTS)**

## 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

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.

## Resources

### BROCHURES

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

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

### CATALOGUES

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

[Product Range Catalog](#)  
[Switching and protecting motors](#)

### CHARACTERISTIC CURVE

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

### DECLARATIONS OF CONFORMITY

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

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

### DRAWINGS

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

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

### ECAD MODEL

[ETN.138259.edz](#)

### INSTALLATION INSTRUCTIONS

[IL034013ZU](#)

### INSTALLATION VIDEOS

[Video Motor Protective Circuit Breaker PKE](#)  
[WIN-WIN with push-in technology](#)

### MANUALS AND USER GUIDES

[eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf](#)

### MCAD MODEL

[DA-CD-pke\\_xtu65](#)  
[DA-CS-pke\\_xtu65](#)

### SALES NOTES

[eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf](#)

<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>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.

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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