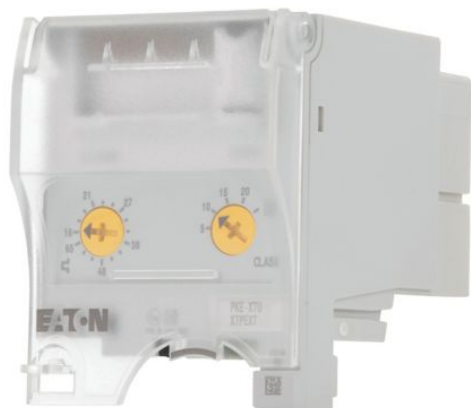


# Specifications



## 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
<b>CERTIFICATIONS</b>	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>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.



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## Features & Functions

### FEATURES

Phase-failure sensitivity  
(according to IEC/EN  
60947-4-1, VDE 0660 Part  
102)

### FUNCTIONS

Motor protection for  
heavy starting duty  
Overload release  
Motor protection

### NUMBER OF POLES

Three-pole

## General

### CURRENT FLOW TIMES - MIN

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.  
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  
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  
-25 - 55 °C, Operating  
range

### USED WITH

Motor-protective circuit  
breaker

### VOLTAGE TYPE

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

## Switching capacity

<b>SWITCHING CAPACITY AT AC-3 (UP TO 690 V)</b>	65 A
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## Short-circuit rating

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

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

## Communication

<b>CONNECTION TO SMARTWIRE-DT</b>	No
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## Contacts

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

## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	9.3 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	3.1 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	65 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<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 AGAINST ELECTRIC SHOCK</b>	Does not apply, since the 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.

## Resources

<b>BROCHURES</b>	<a href="#">eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf</a>  <a href="#">eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf</a>
<b>CATALOGUES</b>	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>  <a href="#">Product Range Catalog Switching and protecting motors</a>
<b>CHARACTERISTIC CURVE</b>	<a href="#">eaton-manual-motor-starters-pke65-characteristic-curve-005.eps</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-system-protective-circuit-breaker-declaration-of-conformity-uk251177en.pdf</a>  <a href="#">eaton-system-protective-circuit-breaker-declaration-of-conformity-eu250694en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-manual-motor-starters-mounting-3d-drawing.eps</a>  <a href="#">eaton-manual-motor-starters-pke-trip-block-3d-drawing.eps</a>
<b>ECAD MODEL</b>	<a href="#">ETN.138259.edz</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL034013ZU</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">Video Motor Protective Circuit Breaker PKE</a>  <a href="#">WIN-WIN with push-in technology</a>
<b>MANUALS AND USER GUIDES</b>	<a href="#">eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf</a>
<b>MCAD MODEL</b>	<a href="#">DA-CD-pke_xtu65</a>  <a href="#">DA-CS-pke_xtu65</a>
<b>SALES NOTES</b>	<a href="#">eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf</a>

<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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