

# Specifications



## Eaton 168799

Eaton Moeller® series PKE Trip block, 30 - 65 A, System protection, Connection to SmartWire-DT: yes, For use with: PKE65 basic device

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series PKE Trip block
<b>CATALOG NUMBER</b>	168799
<b>EAN</b>	4015081652907
<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>	IEC/EN 60947 VDE 0660
<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.
<b>MODEL CODE</b>	PKE-XTUACP-65



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## Features & Functions

<b>FUNCTIONS</b>	Line and cable protection
	System protection
	Overcurrent protection
	Short-circuit protection
<b>NUMBER OF POLES</b>	Three-pole

## General

<b>CURRENT FLOW TIMES - MIN</b>	700 (Class 10) 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).
	900 (Class 15) AC-4 cycle operation, Main conducting paths
	For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.
	500 (Class 5) 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 Device: IP20
<b>OPERATING FREQUENCY</b>	60 Operations/h
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	30 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>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
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<b>RATED FREQUENCY - MAX</b>	60 Hz
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<b>RATED OPERATIONAL CURRENT (IE)</b>	65 A
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<b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b>	690 V
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<b>RATED UNINTERRUPTED CURRENT (IU)</b>	65 A
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<b>SUPPLY VOLTAGE AT AC, 50 HZ - MIN</b>	690 V
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<b>SUPPLY VOLTAGE AT AC, 50 HZ - MAX</b>	690 V
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## Short-circuit rating

<b>SHORT-CIRCUIT RELEASE</b>	Delayed approx. 60 ms, Trip blocks Trip block adjustable 5 - 8 x I <sub>r</sub> 150 - 520 A, I <sub>rm</sub> , Setting range ± 20% tolerance, Trip blocks
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## Magnet system

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

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

<b>CONNECTION TO SMARTWIRE-DT</b>	Yes In conjunction with PKE- SWD-SP SmartWire DT PKE module
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## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID</b>	9.3 W
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<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
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<b>HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID</b>	3.1 W
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<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	65 A
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<b>STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS</b>	0 W
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<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
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<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
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<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
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<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE</b>	Meets the product standard's requirements.
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<b>BY INTERNAL ELECT. EFFECTS</b>	
<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.
<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.

## Resources

	<a href="#">eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf</a>
<b>BROCHURES</b>	<a href="#">eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-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-006.eps</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00005002.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-manual-motor-starters-pke-trip-block-3d-drawing.eps</a> <a href="#">eaton-manual-motor-starters-mounting-3d-drawing.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.PKE-XTUACP-65</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL034013ZU</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">WIN-WIN with push-in technology</a> <a href="#">Video Motor Protective Circuit Breaker PKE</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-CS-pke_xtua_65</a> <a href="#">DA-CD-pke_xtua_65</a>
<b>SALES NOTES</b>	<a href="#">eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf</a>

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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