# Specifications



# Eaton 168797

Eaton Moeller® series PKE Trip block, 15 - 36 A, System protection, Connection to SmartWire-DT: yes, For use with: PKE65 basic device

# General specifications

PRODUCT NAME	Eaton Moeller® series PKE Trip block
CATALOG NUMBER	168797
EAN	4015081652884
PRODUCT LENGTH/DEPTH	84.4 mm
PRODUCT HEIGHT	69.9 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	0.196 kg
CERTIFICATIONS	IEC/EN 60947 VDE 0660
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.
MODEL CODE	PKE-XTUWACP-36



Features & Functions		General	
FUNCTIONS NUMBER OF POLES	Line and cable protection Overcurrent protection System protection Short-circuit protection Three-pole		For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-
		CURRENT FLOW TIMES - MIN	out periods. 1000 (Class 20) AC-4 cycle operation, Main conducting paths 700 (Class 10) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time can cause overheating of the load (motor). 500 (Class 5) AC-4 cycle operation, Main conducting paths
		CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
		DEGREE OF PROTECTION	Terminals: IP00 Device: IP20
		OPERATING FREQUENCY	60 Operations/h
		OVERLOAD RELEASE CURRENT SETTING - MIN	15 A
		OVERLOAD RELEASE CURRENT SETTING - MAX	36 A
		OVERVOLTAGE CATEGORY	Ш
		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	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660

**VOLTAGE TYPE** 

Self powered

# Ambient conditions, mechanical

25 g, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms

# Climatic environmental conditions

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

Electrical rating	
RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL CURRENT (IE)	36 A
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	36 A
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	690 V
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	690 V

# Short-circuit rating

SHORT-CIRCUIT RELEASE	Delayed approx. 60 ms, Trip blocks Trip block adjustable 5 - 8 x lr 75 A - 288 A, Irm, Setting range ± 20% tolerance, Trip blocks
	blocks

#### Magnet system

 RATED CONTROL SUPPLY

 VOLTAGE (US) AT AC, 50
 0 ∨

 HZ - MIN
 0 ∨

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

 RATED CONTROL SUPPLY

 VOLTAGE (US) AT AC, 60
 0 ∨

 HZ - MIN
 0 ∨

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

#### Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

### Communication

CONNECTION TO SMARTWIRE-DT In conjunction with PKE-SWD-SP SmartWire DT PKE module Yes

BY INTERNAL ELECT. EFFECTS	
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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
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	ls 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.

## 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
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CATALOGUES	Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	<u>eaton-manual-motor-</u> <u>starters-pke65-</u> <u>characteristic-curve-</u> <u>006.eps</u>
DECLARATIONS OF CONFORMITY	DA-DC-00005002.pdf
DRAWINGS	eaton-manual-motor- starters-pke-trip-block-3d- drawing-002.eps eaton-manual-motor-
	starters-mounting-3d- drawing.eps
ECAD MODEL	DA-CE-ETN.PKE-XTUWACP- 36
INSTALLATION INSTRUCTIONS	<u>IL034013ZU</u>
	<u>Video Motor Protective</u> <u>Circuit Breaker PKE</u>
	<u>WIN-WIN with push-in</u> <u>technology</u>
MANUALS AND USER GUIDES	eaton-motor-protection- pke12-32-65- mn03402004z-de-de-en- us.pdf
MCAD MODEL	<u>DA-CS-pke_xtua_65</u> <u>DA-CD-pke_xtua_65</u>
SALES NOTES	eaton-pke-modbus-rtu- modul-flyer-fl034008en- en-us.pdf

#### **PROJECT NAME:**

**PROJECT NUMBER:** 

PREPARED BY:

DATE:



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