

Trip block, 3 - 12 A, Motor protection, Connection to SmartWire-DT: yes,  
For use with: PKE12 basic device, PKE32 basic device



Part no. PKE-XTUA-12  
121729  
EL Number 4355192  
(Norway)

General specifications		
Product name		Eaton Moeller® series PKE Trip block
Part no.		PKE-XTUA-12
EAN		4015081195398
Product Length/Depth		41.6 millimetre
Product height		64.2 millimetre
Product width		45 millimetre
Product weight		0.086 kilogram
Certifications		VDE 0660 UL File No.: E36332 IEC/EN 60947 CSA UL 508 CSA File No.: 165628 UL CSA Class No.: 3211-05 CSA-C22.2 No. 14-10 IEC/EN 60947-4-1 UL Category Control No.: NLRV CE
Product Tradename		PKE
Product Type		Accessory
Product Sub Type		Trip block
Catalog Notes		Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.
Features & Functions		
Features		Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Functions		Motor protection for heavy starting duty Motor protection Overload release
Number of poles		Three-pole
General information		
Current flow times - min		Note: Going below the minimum current flow time can cause overheating of the load (motor). 700 (Class 10) 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 1000 (Class 20) AC-4 cycle operation, Main conducting paths 900 (Class 15) 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		3 A
Overload release current setting - max		12 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		-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
Voltage type		Self powered
Ambient conditions, mechanical		

Shock resistance			25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
<b>Climatic environmental conditions</b>			
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
<b>Electrical rating</b>			
Rated frequency - min			50 Hz
Rated frequency - max			60 Hz
Rated operational current (Ie)			12 A
Rated operational voltage (Ue) at AC - max			690 V
Rated uninterrupted current (Iu)			12 A
<b>Short-circuit rating</b>			
Short-circuit release			Trip block fixed 15.5 x I <sub>r</sub> ± 20% tolerance, Trip blocks Delayed approx. 60 ms, Trip blocks
<b>Switching capacity</b>			
Switching capacity at AC-3 (up to 690 V)			12 A
<b>Magnet system</b>			
Rated control supply voltage (Us) at AC, 50 Hz - min			0 V
Rated control supply voltage (Us) at AC, 50 Hz - max			0 V
Rated control supply voltage (Us) at AC, 60 Hz - min			0 V
Rated control supply voltage (Us) at AC, 60 Hz - max			0 V
Rated control supply voltage (Us) at DC - min			0 V
Rated control supply voltage (Us) at DC - max			0 V
<b>Communication</b>			
Connection to SmartWire-DT			In conjunction with PKE-SWD-SP SmartWire DT PKE module In conjunction with PKE-SWD-32 SmartWire DT PKE module Yes
<b>Design verification</b>			
Equipment heat dissipation, current-dependent P <sub>vid</sub>			0.9 W
Heat dissipation capacity P <sub>diss</sub>			0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>			0.3 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )			12 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>			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.
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.
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.
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.

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Trip block for power circuit-breaker (EC000617)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Releasing block for circuit breakers (ecl@ss13-27-37-04-10 [AKF008018])			
Type of motor protection			Electronic release
Number of poles			3
Rated permanent current Iu		A	12
Rated switch current		A	
Overload release current setting		A	3 - 12
Short-circuit release function			Delayed
Current setting delayed short-circuit release		A	
Current setting undelayed short-circuit release		A	
With ground fault protection function			No
External power supply required			No
Voltage type (supply voltage)			
Supply voltage AC 50 Hz		V	
Supply voltage AC 60 Hz		V	
Supply voltage DC		V	
Number of auxiliary contacts as normally closed contact			
Number of auxiliary contacts as normally open contact			
Number of auxiliary contacts as change-over contact			
Voltage type (operating voltage)			
Operating voltage AC 50 Hz		V	
Operating voltage AC 60 Hz		V	
Operating voltage DC		V	
Width		mm	45
Height		mm	64.2
Depth		mm	41.6