

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



Powering Business Worldwide™

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
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)		12 A
Rated operational voltage (Ue) at AC - max		690 V
Rated uninterrupted current (Iu)		12 A
Short-circuit rating		
Short-circuit release		Trip block fixed 15.5 x Ir ± 20% tolerance, Trip blocks Delayed approx. 60 ms, Trip blocks
Switching capacity		
Switching capacity at AC-3 (up to 690 V)		12 A
Magnet system		
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
Communication		
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
Design verification		
Equipment heat dissipation, current-dependent Pvid		0.9 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		0.3 W
Rated operational current for specified heat dissipation (In)		12 A
Static heat dissipation, non-current-dependent Pvs		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 I _u		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