DATASHEET - PKE-XTUA-1,2

Trip block, 0.3 - 1.2 A, Motor protection, Connection to SmartWire-DT: yes,
For use with: PKE12 basic device

Powering Business Worldwide™

Part no.	**PKE-XTUA-1,2**
	121727
EL Number (Norway)	**4355178**

General specifications

Product name	Eaton Moeller® series PKE Trip block
Part no.	PKE-XTUA-1,2
EAN	4015081195374
Product Length/Depth	41.6 millimetre
Product height	64.2 millimetre
Product width	45 millimetre
Product weight	0.09 kilogram
Certifications	IEC/EN 60947-4-1 UL CSA Class No.: 3211-05 UL Category Control No.: NLRV CSA File No.: 165628 IEC/EN 60947 CSA UL 508 CSA-C22.2 No. 14-10 UL File No.: E36332 VDE 0660 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 Motor protection for heavy starting duty Overload release
Number of poles	Three-pole

General information

Current flow times - min	700 (Class 10) AC-4 cycle operation, Main conducting paths 500 (Class 5) 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 1000 (Class 20) 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.
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	0.3 A
Overload release current setting - max	1.2 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)	1.2 A
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	1.2 A
Short-circuit rating	
Short-circuit release	Delayed approx. 60 ms, Trip blocks ± 20% tolerance, Trip blocks Trip block fixed 15.5 x Ir
Switching capacity	
Switching capacity at AC-3 (up to 690 V)	1.2 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-32 SmartWire DT PKE module Yes In conjunction with PKE-SWD-SP SmartWire DT PKE module
Design verification	
Equipment heat dissipation, current-dependent Pvid	0.3 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.1 W
Rated operational current for specified heat dissipation (In)	1.2 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 Iu		A	1.2
Rated switch current		A	
Overload release current setting		A	0.3 - 1.2
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