DATASHEET - PKE-XTUWA-32

Trip block, 8 - 32 A, Motor protection, Connection to SmartWire-DT: yes, For use with: PKE65 basic device

Part no.	**PKE-XTUWA-32**
	138262
EL Number (Norway)	**4355197**

General specifications

Product name	Eaton Moeller® series PKE Trip block
Part no.	PKE-XTUWA-32
EAN	4015081350421
Product Length/Depth	84.4 millimetre
Product height	69.9 millimetre
Product width	55 millimetre
Product weight	0.196 kilogram
Certifications	UL Category Control No.: NLRV IEC/EN 60947 CSA Class No.: 3211-05 VDE 0660 UL File No.: E36332 IEC/EN 60947-4-1 CE CSA-C22.2 No. 14-10 UL CSA File No.: 165628 UL 508 CSA
Product Tradename	PKE
Product Type	Accessory
Product Sub Type	Trip block
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.

Features & Functions

Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Functions	Overload release Motor protection Motor protection for heavy starting duty
Number of poles	Three-pole

General information

Current flow times - min	1000 (Class 20) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths 700 (Class 10) AC-4 cycle operation, Main conducting paths 500 (Class 5) 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. Note: Going below the minimum current flow time can cause overheating of the load (motor).
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	8 A
Overload release current setting - max	32 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	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
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)	32 A
Rated operational voltage (Ue) at AC - max	690 V
Rated uninterrupted current (Iu)	32 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	Trip block fixed 15.5 x Ir Delayed approx. 60 ms, Trip blocks ± 20% tolerance, Trip blocks
Switching capacity	
Switching capacity at AC-3 (up to 690 V)	32 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 Yes
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
Design verification	
Equipment heat dissipation, current-dependent Pvid	3.9 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.3 W
Rated operational current for specified heat dissipation (In)	32 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	32
Rated switch current		A	32
Overload release current setting		A	8 - 32
Short-circuit release function			Delayed
Current setting delayed short-circuit release		A	
Current setting undelayed short-circuit release		A	
With ground fault protection function			
External power supply required			
Voltage type (supply voltage)			AC
Supply voltage AC 50 Hz		V	690 - 690
Supply voltage AC 60 Hz		V	690 - 690
Supply voltage DC		V	
Number of auxiliary contacts as normally closed contact			0
Number of auxiliary contacts as normally open contact			0
Number of auxiliary contacts as change-over contact			0
Voltage type (operating voltage)			AC
Operating voltage AC 50 Hz		V	690 - 690
Operating voltage AC 60 Hz		V	690 - 690
Operating voltage DC		V	690 - 690
Width		mm	55
Height		mm	69.9
Depth		mm	84.4

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