

Motor-protective circuit-breaker, Complete device with AK lockable rotary handle, Electronic, 8 - 32 A, 32 A, With overload release, Screw terminals

**Part no. PKE32/AK/XTU-32
158246**

General specifications	
Product name	Eaton Moeller® series PKE System-protective circuit-breaker
Part no.	PKE32/AK/XTU-32
EAN	4015081548347
Product Length/Depth	101 millimetre
Product height	120 millimetre
Product width	45 millimetre
Product weight	0.441 kilogram
Certifications	IEC/EN 60947-4-1 UL UL File No.: E36332 CE IEC/EN 60947 UL 60947-4-1 CSA Class No.: 3211-05 CSA UL Category Control No.: NLRV CSA-C22.2 No. 60947-4-1-14 VDE 0660 CSA File No.: 165628
Product Tradename	PKE
Product Type	System-protective circuit-breaker
Product Sub Type	None
Catalog Notes	IE3-ready devices are identified by the logo on their packaging.
Features & Functions	
Actuator type	Turn button
Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:	AK lockable rotary handle
Functions	Overload release Motor protection Phase failure sensitive Motor protection for heavy starting duty
Number of poles	Three-pole
General information	
Current flow times - min	700 (Class 10) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths 500 (Class 5) AC-4 cycle operation, Main conducting paths 1000 (Class 20) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time can cause overheating of the load (motor). 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	Terminals: IP00 IP20
Lifespan, electrical	50,000 operations (at 400V, AC-3)
Lifespan, mechanical	50,000 Operations (Main conducting paths)
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	Motor protective circuit breaker
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

Suitable for		Also motors with efficiency class IE3
Temperature compensation		-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
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
Terminal capacities		
Terminal capacity (flexible with ferrule)		2 x (1 - 6) mm ² , ferrule to DIN 46228 1 x (1 - 6) mm ² , ferrule to DIN 46228
Terminal capacity (solid)		1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
Terminal capacity (solid/stranded AWG)		14 - 10
Stripping length (main cable)		10 mm
Tightening torque		1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
Electrical rating		
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		32 A
Rated operational power at AC-3, 220/230 V, 50 Hz		7.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		15 kW
Rated operational power at AC-3, 440 V, 50 Hz		15 kW
Rated operational power at AC-3, 500 V, 50 Hz		18.5 kW
Rated operational power at AC-3, 690 V, 50 Hz		30 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		32 A
Short-circuit rating		
Short-circuit current rating (group protection)		100 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 100 A, Class J, 600 V High Fault, max. Fuse, SCCR (UL/CSA)
Short-circuit release		± 20% tolerance, Trip blocks Delayed approx. 60 ms, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks Trip block fixed 15.5 x Ir
Switching capacity		
Switching capacity		32 A, AC-3 up to 690 V 32 A, General use UL/CSA
Motor rating		
Assigned motor power at 115/120 V, 60 Hz, 1-phase		1.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase		5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase		3 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase		7.5 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase		15 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase		20 HP
Communication		
Connection		Screw terminals
Design verification		
Equipment heat dissipation, current-dependent Pvid		11.4 W
Heat dissipation capacity Pdiss		0 W

Heat dissipation per pole, current-dependent Pvid		3.8 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) / Motor protection circuit-breaker (EC000074)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecI@ss13-27-37-04-01 [AGZ529021])		
Overload release current setting	A	8 - 32
Adjustment range undelayed short-circuit release	A	496 - 496
With thermal overload protection		No
Phase failure sensitive		Yes
Switch off technique		Electronic
Rated operating voltage	V	690 - 690
Rated permanent current Iu	A	32
Rated operation power at AC-3, 230 V	kW	7.5
Rated operation power at AC-3, 400 V	kW	15
Power loss	W	
Type of electrical connection of main circuit		Screw connection
Type of control element		Turn button
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3
Rated short-circuit breaking capacity Icu at 400 V, AC	kA	0
Degree of protection (IP)		IP20
Height	mm	120
Width	mm	45
Depth	mm	101