Specifications

Eaton 158244

Eaton Moeller® series PKE12 Motorprotective circuit-breaker, Complete device with AK lockable rotary handle, Electronic, 1 - 4 A, With overload release

General specificatio	ns
PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit- breaker
CATALOG NUMBER	158244
EAN	4015081548323
PRODUCT LENGTH/DEPTH	101 mm
PRODUCT HEIGHT	120 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.425 kg
CERTIFICATIONS	CSA Class No.: 3211-05 IEC/EN 60947 CSA File No.: 165628 CE VDE 0660 UL 60947-4-1 CSA CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332 UL
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.
MODEL CODE	PKE12/AK/XTU-4



Features & Functions	S
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	Motor protection for heavy starting duty Motor protection Overload release Phase failure sensitive
NUMBER OF POLES	Three-pole

General	
CURRENT FLOW TIMES - MIN	500 (Class 5) AC-4 cycle operation, Main conducting paths 700 (Class 10) 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 cutout periods. 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
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	1 A
OVERLOAD RELEASE CURRENT SETTING - MAX	4 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 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable

Electrical rating	
RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL CURRENT (IE)	4 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0.75 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	1.5 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	4 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	Trip block fixed 15.5 x lr Delayed approx. 60 ms, Trip blocks ± 20% tolerance, Trip blocks Basic device fixed 15.5 x lu, Trip Blocks

Switching capacity	
SWITCHING CAPACITY	4 A, AC-3 up to 690 V

Motor rating		Comm
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.125 HP	CONNEC
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	0.75 HP	
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	0.33 HP	
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	0.75 HP	
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	2 HP	
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	3 HP	

Communication	
CONNECTION	Screw terminals

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Design verification		Resources	
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0.9 W	BROCHURES	eaton-motor-protective- circuit-breaker-pke-and- communication-modul-
HEAT DISSIPATION CAPACITY PDISS	0 W		pke-brochure- w12107613en-en-us.pdf
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.3 W		eaton-motor-starters- system-xstart-brochure- br03407001en-en-us.pdf
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A	CATALOGUES	Product Range Catalog Switching and protecting motors
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W		eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.	CHARACTERISTIC CURVE	eaton-manual-motor- starters-pke65- characteristic-curve-
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.		005.eps eaton-manual-motor- starters-pke65-
10.2.3.2 VERIFICATION OF RESISTANCE OF	Meets the product		characteristic-curve.eps eaton-manual-motor-
TO NORMAL HEAT	standard's requirements.		starters-pke32- dimensions-005.eps
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.		eaton-manual-motor- starters-pke65- characteristic-curve- 003.eps
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV)	Meets the product standard's requirements.	DECLARATIONS OF CONFORMITY	DA-DC-00004945.pdf
RADIATION			DA-DC-00004950.pdf
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.	DRAWINGS	eaton-general-ie-ready- dilm-contactor- standards.eps
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.		eaton-manual-motor- starters-pke12-3d- drawing.eps
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.		eaton-manual-motor- starters-mounting-3d-
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.	ECAD MODEL	drawing.eps ETN.158244.edz
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.	INSTALLATION INSTRUCTIONS	eaton-motor-protective- circuit-breaker-pke- il03402019z.pdf
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	ls the panel builder's responsibility.	
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.	
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.	
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls 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.

	eaton-trip-block-pke-xtu- for-pke12-pke32- il034011zu.pdf
	<u>IL034003ZU</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
	<u>Video Motor Protective</u> <u>Circuit Breaker PKE</u>
MANUALS AND USER GUIDES	eaton-motor-protection- pke12-32-65- mn03402004z-de-de-en- us.pdf
MCAD MODEL	DA-CS- pke12 xtu 12 ak new a DA-CD- pke12 xtu 12 ak new a
SALES NOTES	eaton-pke-modbus-rtu- modul-flyer-fl034008en- en-us.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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