## Specifications







## Eaton 121733

Eaton Moeller® series PKE12 Motorprotective circuit-breaker, Complete device with standard knob, Electronic, 3 - 12 A, With overload release

General specification	าร
PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit- breaker
CATALOG NUMBER	121733
EAN	4015081195435
PRODUCT LENGTH/DEPTH	101 mm
PRODUCT HEIGHT	102.5 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.42 kg
CERTIFICATIONS	IEC/EN 60947 UL CSA CSA Class No.: 3211-05 IEC/EN 60947-4-1 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 CE CSA File No.: 165628 VDE 0660 UL Category Control No.: NLRV UL File No.: E36332
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/XTU-12



Features & Function	าร
ACTUATOR TYPE	Turn button
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
FITTED WITH:	Standard knob
FUNCTIONS	Motor protection Phase failure sensitive Overload release Motor protection for heavy starting duty
NUMBER OF POLES	Three-pole

General	
CURRENT FLOW TIMES - MIN	1000 (Class 20) AC-4 cycle operation, Main conducting paths 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 cutout periods.  Note: Going below the minimum current flow time can cause overheating of the load (motor).  500 (Class 5) 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 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	3 A
OVERLOAD RELEASE CURRENT SETTING - MAX	12 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

2 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228 1 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228
2 x (1 - 6) mm <sup>2</sup> 1 x (1 - 6) mm <sup>2</sup>
14 - 10
10 mm
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)	12 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	5.5 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	12 A

Short-circuit rating	
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	100 A, Class J, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 100 kA, 600 V High Fault, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x lu, Trip Blocks Delayed approx. 60 ms, Trip blocks ± 20% tolerance, Trip blocks Trip block fixed 15.5 x lr

Switching capacity	
SWITCHING CAPACITY	12 A, General use UL/CSA 12 A, AC-3 up to 690 V
SWITCHING CAPACITY	•

Motor rating		
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1 HP	_
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP	
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP	
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP	
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	7.5 HP	•
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 HP	

Communication		
CONNECTION	Screw terminals	

Design verification		Resources	
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	3.6 W	BROCHURES	eaton-motor-protective- circuit-breaker-pke-and- communication-modul- pke-brochure-
HEAT DISSIPATION CAPACITY PDISS	0 W		w12107613en-en-us.pdf
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.2 W		eaton-motor-starters- system-xstart-brochure- br03407001en-en-us.pdf
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 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.eps
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.		eaton-manual-motor- starters-pke65- characteristic-curve-
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.		005.eps  eaton-manual-motor- starters-pke65-
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.		<u>characteristic-curve-</u> <u>003.eps</u>
		DECLARATIONS OF CONFORMITY	DA-DC-00004950.pdf DA-DC-00004945.pdf
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.	DRAWINGS	eaton-manual-motor- starters-dimensions- 002.eps
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.		eaton-manual-motor- starters-3d-drawing- 002.eps
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.		eaton-general-ie-ready- dilm-contactor- standards.eps
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.		eaton-manual-motor- starters-mounting-3d-
10.3 DEGREE OF PROTECTION OF	Does not apply, since the entire switchgear needs to	ECAD MODEL	drawing.eps  ETN.121733.edz
ASSEMBLIES	be evaluated.	LCAD MODEL	<u>IL034003ZU</u>
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.	INSTALLATION	eaton-motor-protective-
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.	INSTRUCTIONS	circuit-breaker-pke- il03402019z.pdf

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	Is the panel builder's responsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	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
INSTALLATION VIDEOS	Video Motor Protective Circuit Breaker PKE  WIN-WIN with push-in technology
MANUALS AND USER GUIDES	eaton-motor-protection- pke12-32-65- mn03402004z-de-de-en- us.pdf
MCAD MODEL	DA-CD-pke12_xtu  DA-CS-pke12_xtu
SALES NOTES	eaton-pke-modbus-rtu- modul-flyer-fl034008en- en-us.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



## **Eaton Corporation plc**

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