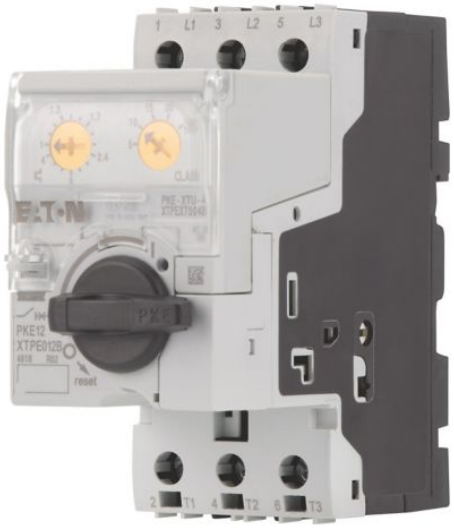
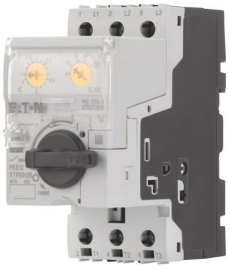
Specifications





Eaton 121732

Eaton Moeller® series PKE12 Motor-protective circuit-breaker, Complete device with standard knob, Electronic, 1 - 4 A, With overload release

General specifications	
PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit-breaker
CATALOG NUMBER	121732
MODEL CODE	PKE12/XTU-4
EAN	4015081195428
PRODUCT LENGTH/DEPTH	101 mm
PRODUCT HEIGHT	102.5 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.42 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA Std. C22.2 No. 14-10 UL 508 EN 60947-4-1 IEC 60947-4-1 VDE CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 IEC/EN 60947 CSA Class No.: 3211-05 UL 60947-4-1 CSA CSA File No.: 165628 UL UL Category Control No.: NLRV UL File No.: E36332 VDE 0660 CE
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

Powering Business Worldwide

	appropriate measures.
GLOBAL CATALOG	121732

Product specifications

FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
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.
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	Does not apply, since the entire switchgear needs to

Resources

BROCHURES	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf eaton-motor-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf
CATALOGS	Product Range Catalog Switching and protecting motors eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf eaton-motor-protective%20circuit-breakers-pke-product-range-catalog-ca03402001zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-manual-motor-starters-pke65-characteristic-curve.eps eaton-manual-motor-starters-pke65-characteristic-curve-005.eps eaton-manual-motor-starters-pke65-characteristic-curve-003.eps
DECLARATIONS OF CONFORMITY	eaton-system-protective-circuit-breaker-declaration-of-conformity-uk251177en.pdf eaton-system-protective-circuit-breaker-declaration-of-conformity-eu250694en.pdf
DRAWINGS	eaton-manual-motor-starters-dimensions-002.eps eaton-general-ie-ready-dilm-contactor-standards.eps eaton-manual-motor-starters-mounting-3d-drawing.eps

ASSEMBLIES	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.
FITTED WITH:	Standard knob
OPERATING FREQUENCY	60 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
ACTUATOR TYPE	Turn button
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	62 A
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	62 A
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR	0.125 HP

	eaton-manual-motor-starters-3d-drawing-002.eps
ECAD MODEL	ETN.121732.edz
INSTALLATION INSTRUCTIONS	IL034003ZU eaton-motor-protective-circuit-breaker-pke-il03402019z.pdf 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-CS-pke12_xtu DA-CD-pke12_xtu
SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

POWER AT 115/120 V, 60 HZ, 1-PHASE	
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
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0.9 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.3 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ALTITUDE	Max. 2000 m
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
CONNECTION	Screw terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
CURRENT FLOW TIMES - MIN	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). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods. 900 (Class 15) AC-4 cycle operation, Main conducting paths 1000 (Class 20) AC-4 cycle operation, Main

	conducting paths 700 (Class 10) AC-4 cycle operation, Main conducting paths
LIFESPAN, MECHANICAL	50,000 Operations (Main conducting paths)
OVERVOLTAGE CATEGORY	III
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
DEGREE OF PROTECTION	Terminals: IP00 IP20
NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
FUNCTIONS	Motor protection for heavy starting duty Phase failure sensitive Overload release Motor protection
TERMINAL CAPACITY (SOLID/STRANDED AWG)	14 - 10
SWITCHING CAPACITY	4 A, AC-3 up to 690 V
OVERLOAD RELEASE CURRENT SETTING - MAX	4 A
OVERLOAD RELEASE CURRENT SETTING - MIN	1 A
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	4 A
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	0.75 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	1.5 kW
RATED UNINTERRUPTED CURRENT (IU)	4 A
STATIC HEAT	0 W

DISSIPATION, NON-CURRENT-DEPENDENT PVS	
STRIPPING LENGTH (MAIN CABLE)	10 mm
PRODUCT CATEGORY	Motor protective circuit breaker
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ	1.5 kW
RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ	3 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	100 kA
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT RELEASE	± 20% tolerance, Trip blocks Trip block fixed 15.5 x Ir Delayed approx. 60 ms, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm² 2 x (1 - 6) mm²
RATED OPERATIONAL CURRENT (IE)	4 A
TEMPERATURE COMPENSATION	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
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)
TIGHTENING TORQUE	1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
SWITCH OFF TECHNIQUE	Electronic
TERMINAL CAPACITY (FLEXIBLE WITH	1 x (1 - 6) mm², ferrule to DIN 46228

FERRULE)	2 x (1 - 6) mm², ferrule to DIN 46228
POWER LOSS	0.9 W
RESISTANCE PER POLE	10 mΩ

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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