

Specifications



Eaton 168972

Eaton Moeller® series PKE32 System-protective circuit-breaker, Complete device with standard knob, 15 - 36 A, 36 A, With overload release, Screw terminals

General specifications

PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit-breaker
CATALOG NUMBER	168972
MODEL CODE	PKE32/XTUCP-36
EAN	4015081654635
PRODUCT LENGTH/DEPTH	101 mm
PRODUCT HEIGHT	102.5 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.436 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947

CATALOG NOTES

- For conductor cross-sections $\leq 6 \text{ mm}^2$, use BK25/3-PKZ0 on the incoming side and BK25/3-PKZ0-U on the secondary side.
- 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.



Powering Business Worldwide

Ambient conditions, mechanical

SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
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Communication

CONNECTION	Screw terminals
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Climatic environmental conditions

ALTITUDE	Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

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

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 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	Does not apply, since the

Electrical rating

RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL CURRENT (IE)	36 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED UNINTERRUPTED CURRENT (IU)	36 A

AGAINST ELECTRIC SHOCK	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.
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

Features & functions	
ACTUATOR TYPE	Turn button
FEATURES	Complete device with protection unit
FITTED WITH:	Standard knob
FUNCTIONS	Line and cable protection System protection Overload release
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 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 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 cut-out periods.
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
DEGREE OF PROTECTION	IP20 Terminals: IP00
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	50,000 Operations (Main conducting paths)
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
OPERATING FREQUENCY	60 Operations/h
OVERLOAD RELEASE CURRENT SETTING - MAX	36 A
OVERLOAD RELEASE CURRENT SETTING - MIN	15 A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Circuit-breaker PKE
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
RESISTANCE PER POLE	2.7 mΩ
SUITABLE FOR	DIN rail (top hat rail) mounting
TEMPERATURE COMPENSATION	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660

Short-circuit rating

SHORT-CIRCUIT RELEASE	Trip block adjustable 5 - 8 x I _r Delayed approx. 60 ms, Trip blocks ± 20% tolerance, Trip blocks Basic device fixed 15.5 x I _u , Trip Blocks
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Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	10 mm
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)	2 x (1 - 6) mm ² 1 x (1 - 6) mm ²

TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
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Resources

	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
BROCHURES	eaton-motor-protective-circuit-breaker-pke-and-communication-module-pke-brochure-w12107613en-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-manual-motor-starters-pke65-characteristic-curve.eps eaton-manual-motor-starters-pke65-characteristic-curve-003.eps
DECLARATIONS OF CONFORMITY	eaton-system-protective-circuit-breaker-declaration-of-conformity-eu250695en.pdf eaton-system-protective-circuit-breaker-declaration-of-conformity-uk251178en.pdf
DRAWINGS	eaton-manual-motor-starters-pke-trip-block-characteristic-curve-002-de.eps eaton-manual-motor-starters-dimensions-002.eps eaton-manual-motor-starters-3d-drawing-002.eps eaton-manual-motor-starters-mounting-3d-drawing.eps
ECAD MODEL	ETN.168972.edz
INSTALLATION INSTRUCTIONS	IL034013ZU eaton-motor-protective-circuit-breaker-pke-il03402019z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology Video Motor Protective Circuit Breaker PKE

MANUALS AND USER GUIDES	eaton-motor-protection-pke12-32-65-mn03402004z-de-de-en-us.pdf
MCAD MODEL	DA-CS-pke12_xtu eaton-breakers-mcad-drawings-pke12-xtu.dwg
SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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