



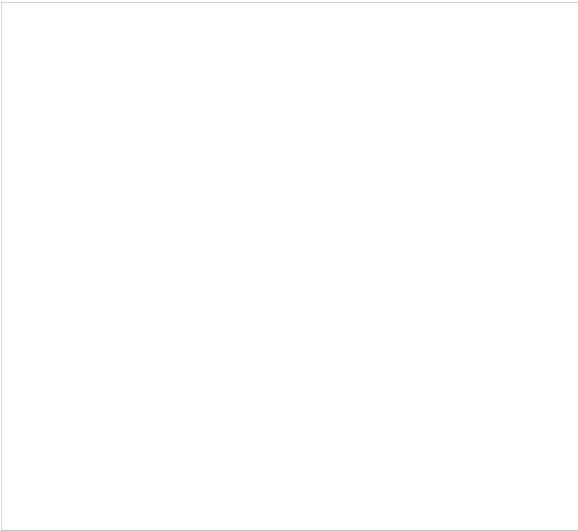
PKE ELECTRONIC MOTOR PROTECTION
CIRCUIT BREAKER
168973


Overview


Specifications


Resources

How to buy

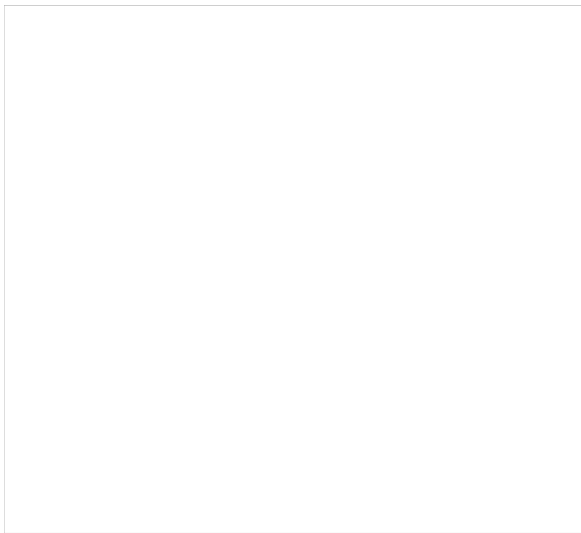
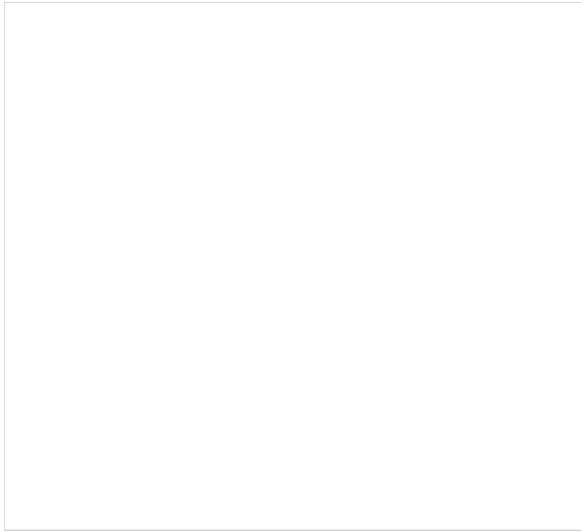
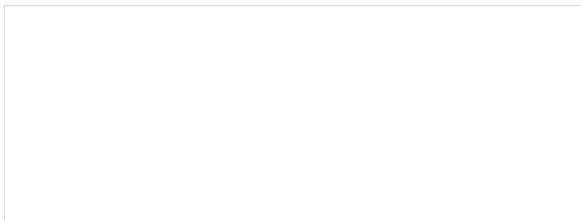


168973

Eaton Moeller® series PKE65 System-protective circuit breaker device with standard knob, 15 - 36 A, 36 A, With over

How to buy





General specifications

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GENERAL SPECIFICATIONS

Product specifications

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PRODUCT NAME	Eaton Moeller® series PKE System-protective circuit breaker
CATALOG NUMBER	168973
MODEL CODE	PKE65/XTUWCP-36
EAN	4015081654642
PRODUCT LENGTH/DEPTH	187 mm
PRODUCT HEIGHT	162 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.427 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	36 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 35) mm ² , ferrule to DIN 46228 2 x (0.75 - 25) mm ² , ferrule to DIN 46228
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	11 kA
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specification must be observed.
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	288 A
STRIPPING LENGTH (MAIN CABLE)	14 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA

10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
FITTED WITH:	Standard knob
CURRENT FLOW TIMES - MIN	Note: Going below the minimum current flow time of the load (motor). 900 (Class 15) AC-4 cycle operation, Main conduct For all combinations with an SWD activation, you the minimum current flow times and minimum cut- 500 (Class 5) AC-4 cycle operation, Main conductin 1000 (Class 20) AC-4 cycle operation, Main conduc 700 (Class 10) AC-4 cycle operation, Main conduct
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	1008 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	75 A
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
ACTUATOR TYPE	Turn button
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Other
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
FEATURES	Complete device with protection unit
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
NUMBER OF POLES	Three-pole
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	5 kA
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
RATED UNINTERRUPTED CURRENT (IU)	36 A

SHORT-CIRCUIT RELEASE	± 20% tolerance, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks Delayed approx. 60 ms, Trip blocks Trip block adjustable 5 - 8 x Ir
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.2 W
OPERATING FREQUENCY	60 Operations/h
PRODUCT CATEGORY	Circuit-breaker PKE
OVERLOAD RELEASE CURRENT SETTING - MIN	15 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	12 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	45 kA
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	6.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	36 A
SUITABLE FOR	DIN rail (top hat rail) mounting
TEMPERATURE COMPENSATION	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm ² 2 x (0.75 - 16) mm ²
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED FREQUENCY - MIN	50 Hz
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.
LIFESPAN, MECHANICAL	30,000 Operations (Main conducting paths)
OVERLOAD RELEASE CURRENT SETTING - MAX	36 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT	3 kA

500 V AC	500 V AC
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP20 Terminals: IP00
RATED FREQUENCY - MAX	60 Hz
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	1008 A
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
CONNECTION	Screw terminals
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device
FUNCTIONS	Overload release System protection Line and cable protection
TIGHTENING TORQUE	1 Nm, Screw terminals, Control circuit cables 3.3 Nm, Screw terminals, Main cable
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	15 kA
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	1 kA
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27 shock 10 ms
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
ALTITUDE	Max. 2000 m

Brochures

Catalogs

Certification reports

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

Installation videos

Manuals and user guides

mCAD model

168973



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.

