

PKE ELECTRONIC MOTOR PROTECTION CIRCUIT BREAKER

168973



Overview



Specifications



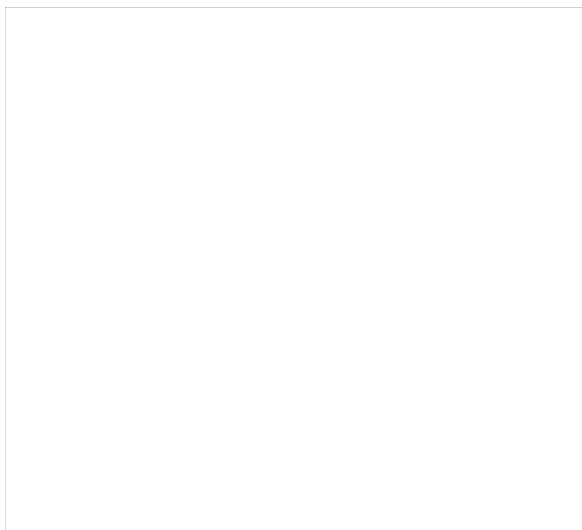
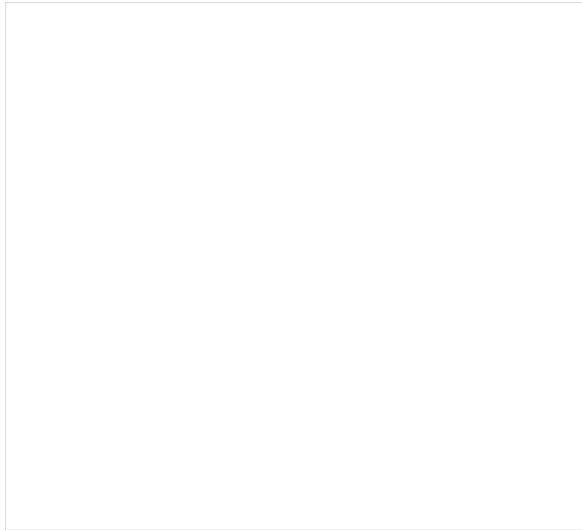
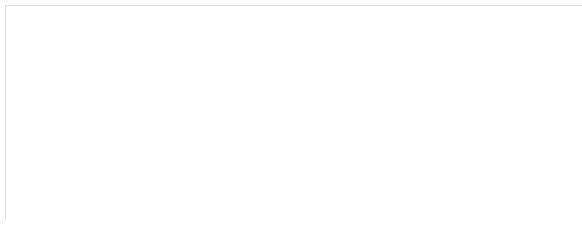
Resources

How to

168973



How to buy



GENERAL SPECIFICATIONS

General specifications

>

PRODUCT NAME

Eaton Moeller® series PKE System-protective circuit

Product specifications

>

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) mm², ferrule to DIN 46228
2 x (0.75 - 25) mm², 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 opera

10.2.5 LIFTING

Does not apply, since the entire switchgear needs to

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	<p>Note: Going below the minimum current flow time of the load (motor).</p> <p>900 (Class 15) AC-4 cycle operation, Main conductors</p> <p>For all combinations with an SWD activation, you the minimum current flow times and minimum cut-off times.</p> <p>500 (Class 5) AC-4 cycle operation, Main conductors</p> <p>1000 (Class 20) AC-4 cycle operation, Main conductors</p> <p>700 (Class 10) AC-4 cycle operation, Main conductors</p>
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 direct 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	<p>Damp heat, constant, to IEC 60068-2-78</p> <p>Damp heat, cyclic, to IEC 60068-2-30</p>
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 be certified.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be certified.
RATED UNINTERRUPTED CURRENT (IU)	36 A

SHORT-CIRCUIT RELEASE

± 20% tolerance, Trip blocks
Basic device fixed 15.5 x I_u, Trip Blocks
Delayed approx. 60 ms, Trip blocks
Trip block adjustable 5 - 8 x I_r

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) mm²
2 x (0.75 - 16) mm²

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

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 devi
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.

