

Specifications



Eaton 172735

Eaton Moeller® series PKE Function element for connecting interface to SmartWire-DT

General specifications

PRODUCT NAME	Eaton Moeller® series PKE Function element
CATALOG NUMBER	172735
MODEL CODE	PKE-SWD-CP
EAN	4015081692811
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	65 mm
PRODUCT WIDTH	67.5 mm
PRODUCT WEIGHT	0.028 kg
CERTIFICATIONS	IEC/EN 61131-2

Ambient conditions, mechanical

CONSTANT ACCELERATION	1 g, 8.4 - 150 Hz, according to IEC/EN 61131-2, Vibrations
CONSTANT AMPLITUDE	3,5 mm, 5 - 8.4 Hz, according to IEC/EN 61131-2, Vibrations
DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
MOUNTING POSITION	As PKE32/65
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Communication

ADDRESSING	Address set automatically
CONNECTION TO SMARTWIRE-DT	Yes
CONNECTION TYPE	SWD: Plug, 8-pole External device plug SWD4-8SF2-5, SmartWire-DT
LED INDICATOR	Status indication of SmartWire-DT network: Green LED
STATION	SmartWire-DT slave, SmartWire-DT network

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-30 °C
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures
RELATIVE HUMIDITY	5 - 95 % (non-condensing, IEC/EN 60068-2-30)

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	Meets the product standard's requirements.

ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	
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 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.
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC 61131-2, level 3, ESD
BURST IMPULSE	1 kV, SmartWire-DT cable, Signal cable, according to IEC/EN 61131-2, Level 3 1 kV, CAN/DP-bus cable, SmartWire-DT cables, according to IEC/EN 61131-2, Level 3
CONTACT DISCHARGE	4 kV, according to IEC/EN 61131-2, Level 2, ESD
ELECTROMAGNETIC FIELDS	10 V/m at 80 - 1000 MHz (according to IEC/EN 61131-2:2008) 1 V/m at 2.0 - 2.7 GHz (according to IEC/EN 61131-2:2008) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008)
RADIATED RFI	10 V (IEC/EN 61131-2:2008, Level 3)
RADIO INTERFERENCE CLASS	Class A (EN 55011)

General information

ACCESSORY/SPARE PART TYPE	Communication and measuring function
CURRENT CONSUMPTION	35 mA, SmartWire-DT network, 15-V-SWD supply
DEGREE OF PROTECTION	IP20
OVERVOLTAGE CATEGORY	II
POLLUTION DEGREE	2
PRODUCT CATEGORY	- Accessories - SmartWire-DT slave
TYPE	Function element

Features & functions

FUNCTIONS

Remote circuit-breaker de-energization
For attachment to PKE circuit-breakers
Display of Set short-circuit release value
Display of Contactor state PKE
Display of Trip indications (Overload, Short-circuit,...)
Display of Part no. of trip block
Display of All phase currents in %
For connecting the PKE circuit-breaker with PKE-XTU(W)ACP-... trip blocks to SmartWire-DT
Display of Thermal load as a %
System protection
Display of Set value of overload releases

Resources

BROCHURES

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

[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](#)

DECLARATIONS OF CONFORMITY

[eaton-accessory-declaration-of-conformity-uk251285en.pdf](#)

[eaton-accessory-declaration-of-conformity-eu250802en.pdf](#)

DRAWINGS

[eaton-manual-motor-starters-swd-pke-function-element-dimensions.eps](#)

[eaton-manual-motor-starters-pke-function-element-3d-drawing-002.eps](#)

ECAD MODEL	DA-CE-ETN.PKE-SWD-CP
INSTALLATION INSTRUCTIONS	IL120003ZU
INSTALLATION VIDEOS	Video Motor Protective Circuit Breaker PKE WIN-WIN with push-in technology
MANUALS AND USER GUIDES	MN05006001Z_EN MN05006002Z_EN MN05013002Z_EN
MCAD MODEL	pke_swd_cp_sp.stp eaton-accessories-mcad-drawings-pke-swd-cp-sp.dwg
SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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