

Specifications

Eaton 150614

Eaton Moeller® series PKE Function element, SmartWire-DT, PKE / XTPE

General specifications

PRODUCT NAME	Eaton Moeller® series PKE Function element
CATALOG NUMBER	150614
EAN	4015081468669
PRODUCT LENGTH/DEPTH	71 mm
PRODUCT HEIGHT	46.8 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.028 kg
CERTIFICATIONS	CSA UL CE UL508 CSA-C22.2 No. 14 CSA Class No.: 3211-07 UL Category Control No.: NKCR CSA File No.: 165628 IEC60847-4-1 UL File No.: E29184 IEC/EN 61131-2 UL Category Control No.: NLDX, NLDX7
MODEL CODE	PKE-SWD-SP

Features & Functions

FUNCTIONS

Motor protection
 Display of Set value of overload releases
 Display of Contactor state PKE
 Display of Trip indications (Overload, Short-circuit,...)
 Display of Part no. of trip block
 Display of Motor current in %
 Display of Thermal motor image in %
 Remote disconnection of motor-protective circuit-breaker
 Motor protection for heavy starting duty
 Display of Set time lag (CLASS)
 For connecting the motor-protective circuit-breaker with PKE-XTU(W)A-... trip blocks(motor protection) to SmartWire-DT

General

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

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 PKE12/35/65
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Climatic environmental conditions

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

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) 3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008) 1 V/m at 2.0 - 2.7 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)

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

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID 0 W

HEAT DISSIPATION CAPACITY PDISS 0 W

HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID 0 W

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 0 A

STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS 0.5 W

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 AGAINST ELECTRIC SHOCK Does not apply, since the entire switchgear needs to be evaluated.

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](#)

CATALOGUES

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[Product Range Catalog Switching and protecting motors](#)

[DA-DC-00004545.pdf](#)

[DA-DC-00004996.pdf](#)

[DA-DC-00004244.pdf](#)

[DA-DC-00004969.pdf](#)

[DA-DC-00004950.pdf](#)

[DA-DC-00005002.pdf](#)

[DA-DC-00004945.pdf](#)

[DA-DC-00004992.pdf](#)

DECLARATIONS OF CONFORMITY

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-SP](#)

INSTALLATION INSTRUCTIONS

[IL03407192Z](#)

INSTALLATION VIDEOS

[WIN-WIN with push-in technology](#)

[Video Motor Protective Circuit Breaker PKE](#)

MANUALS AND USER GUIDES

[MN05013002Z_EN](#)

[MN05006002Z_EN](#)

[MN05006001Z_EN](#)

MCAD MODEL

[pke_swd_cp_sp.stp](#)

[pke_swd_cp_sp.dwg](#)

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.
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.

SALES NOTES	eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf
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PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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