

Specifications

Eaton 126895

Eaton Moeller® series PKE Function element, SmartWire-DT, for PKE12/32, manual/auto

General specifications

PRODUCT NAME	Eaton Moeller® series PKE Function element
CATALOG NUMBER	126895
EAN	4015081244751
PRODUCT LENGTH/DEPTH	81 mm
PRODUCT HEIGHT	39 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.043 kg
CERTIFICATIONS	CSA-C22.2 No. 14 IEC/EN 61131-2 IEC/EN 60947 CE CSA CSA Class No.: 3211-07 CSA File No.: 165628 UL508 UL EN 50178 IEC60847-4-1 UL Category Control No.: NKCR UL File No.: E29184
MODEL CODE	PKE-SWD-32

Features & Functions

ELECTRIC CONNECTION TYPE

Spring clamp connection

FEATURES

Fieldbus connection over separate bus coupler possible

FUNCTIONS

Selectable overload relay function (ZMR) for switching off the contactor on overload
Activation Overload relay function (ZMR)
Motor protection for heavy starting duty
Display of Switch position contactor/PKE/1-0-A switch
Display of Thermal motor image in %
Contactor actuation
For connecting PKE motor-starter combination MSC-DEA... with PKE-XTUA-... trip blocks with a rated motor output of 15 kW/400 V to SmartWire-DT

Motor protection
Display of Part no. of trip block
Display of Motor current in %
Display of Set value of overload releases
Display of Trip indications (Overload, Short-circuit,...)
Display of Set time lag (CLASS)

OPERATING MODE

Manual operation possible

Address allocation via Rotary switch
Automatic operation possible

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General

ACCESSORIES

Connecting cable between module and trip block PKE-XTUA-... included with supplied equipment.

CABLE LENGTH

≤ 2.8 m, Connection auxiliary contact

CURRENT CONSUMPTION

58 mA, SmartWire-DT network, 15-V-SWD supply
See the contactor's pick-up current and holding current (max. 0.5 A), 24-V-DC-SWD control voltage Uaux

DEGREE OF PROTECTION

IP20

EXPLOSION SAFETY CATEGORY FOR DUST

None

EXPLOSION SAFETY CATEGORY FOR GAS

None

NUMBER OF INPUTS (DIGITAL)

0

NUMBER OF OUTPUTS (DIGITAL)

1

OVERVOLTAGE CATEGORY

II

POLLUTION DEGREE

2

PRODUCT CATEGORY

- Accessories
- SmartWire-DT slave

PROTOCOL

Other bus systems

TYPE

SmartWire-DT PKE module (motor-starter combinations)

VOLTAGE TYPE

DC

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 DILM7 to DILM32
SHOCK RESISTANCE	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts

Electro magnetic compatibility

AIR DISCHARGE	8 kV, according to IEC 61131-2, level 3, ESD
BURST IMPULSE	1 kV, CAN/DP-bus cable, SmartWire-DT cables, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, Signal cable, 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)

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)

Terminal capacities

TERMINAL CAPACITY	0.2 - 1.5 mm ² (AWG 24 - 16), solid 0.25 - 1.5 mm ² , flexible with ferrule
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Electrical rating

INPUT CURRENT AT SIGNAL 1	0 mA
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OUTPUT CURRENT	0.5 A
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SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 VAC
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SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
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SUPPLY VOLTAGE AT DC - MIN	15 VDC
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SUPPLY VOLTAGE AT DC - MAX	15 VDC
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Communication

ADDRESSING	Address set automatically
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CONNECTION	A2 connections must not be bridged.
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CONNECTION TO SMARTWIRE-DT	Yes
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CONNECTION TYPE	External device plug SWD4-8SF2-5, SmartWire-DT Push in terminals, Auxiliary contact SWD: Plug, 8-pole
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LED INDICATOR	Status indication of SmartWire-DT network: Green and orange LED
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STATION	SmartWire-DT slave, SmartWire-DT network
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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 0.9 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-protective-circuit-breaker-pke-and-communication-modul-pke-brochure-w12107613en-en-us.pdf](#)

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

CATALOGUES

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

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

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

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

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

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

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

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

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

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

DECLARATIONS OF CONFORMITY

DRAWINGS

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

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

ECAD MODEL

[ETN.PKE-SWD-32](#)

INSTALLATION INSTRUCTIONS

[IL03402024Z](#)

INSTALLATION VIDEOS

[Video Motor Protective Circuit Breaker PKE](#)

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

MANUALS AND USER GUIDES

[MN05006001Z_EN](#)

[MN05013002Z_EN](#)

[MN05006002Z_EN](#)

MCAD MODEL

[pke swd 32](#)

[pke swd 32.stp](#)

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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