

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
MODEL CODE	PKE-SWD-32
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

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

Communication

ADDRESSING	Address set automatically
CONNECTION	A2 connections must not be bridged.
CONNECTION TO SMARTWIRE-DT	Yes
CONNECTION TYPE	External device plug SWD4-8SF2-5, SmartWire-DT Push in terminals, Auxiliary contact SWD: Plug, 8-pole
LED INDICATOR	Status indication of SmartWire-DT network: Green and orange 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.
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

Electrical rating

OUTPUT CURRENT	0.5 A
SUPPLY VOLTAGE AT DC - MAX	15 VDC
SUPPLY VOLTAGE AT DC - MIN	15 VDC

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)

Features & functions

ELECTRIC CONNECTION TYPE	Spring clamp connection
FEATURES	Fieldbus connection over separate bus coupler possible 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

Terminal capacities

TERMINAL CAPACITY	0.2 - 1.5 mm² (AWG 24 - 16), solid 0.25 - 1.5 mm², flexible with ferrule
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General information

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

Resources

BROCHURES	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
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	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
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-uk251285en.pdf eaton-accessory-declaration-of-conformity-eu250802en.pdf
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	MN05013002Z_EN MN05006002Z_EN MN05006001Z_EN
MCAD MODEL	eaton-module-mcad-drawings-pke-swd-32.dwg pke_swd_32.stp
SALES NOTES	eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf eaton-pke-modbus-rtu-modul-flyer-fl034008en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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