DATASHEET - PKE-SWD-CP

Function element for connecting interface to SmartWire-DT

Part no.	**PKE-SWD-CP**
	172735
EL Number (Norway)	**4560851**

General specifications

Product name	Eaton Moeller® series PKE Function element
Part no.	PKE-SWD-CP
EAN	4015081692811
Product Length/Depth	75 millimetre
Product height	65 millimetre
Product width	67.5 millimetre
Product weight	0.028 kilogram
Certifications	IEC/EN 61131-2
Product Tradename	PKE
Product Type	Accessory
Product Sub Type	Function element

Features & Functions

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

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	SmartWire-DT slave Accessories
Type	Function element

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

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, 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	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) 10 V/m at 80 - 1000 MHz (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	External device plug SWD4-8SF2-5, SmartWire-DT SWD: Plug, 8-pole
LED indicator	Status indication of SmartWire-DT network: Green LED
Station	SmartWire-DT slave, SmartWire-DT network
Design verification	
Static heat dissipation, non-current-dependent Pvs	0 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.
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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Accessories/spare parts for low-voltage switch technology (EC002498)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Component for low-voltage switching technology (accessories) (ecl@ss13-27-37-13-92 [AKN570018])

Type of accessory/spare part	Communication and measuring function
Accessory	Yes
Spare part	No

© 04/2023 by Eaton Industries GmbH