

Part no. **PKE-SWD-32**
126895
EL Number **4520200**
(Norway)

General specifications		
Product name		Eaton Moeller® series PKE Function element
Part no.		PKE-SWD-32
EAN		4015081244751
Product Length/Depth		81 millimetre
Product height		39 millimetre
Product width		54 millimetre
Product weight		0.043 kilogram
Certifications		IEC/EN 60947 CSA File No.: 165628 CSA-C22.2 No. 14 IEC/EN 61131-2 CSA UL Category Control No.: NKCR UL CSA Class No.: 3211-07 CE UL508 EN 50178 IEC60847-4-1 UL File No.: E29184
Product Tradename		PKE
Product Type		Accessory
Product Sub Type		Function element
Catalog Notes		1 electrical interlock for the surface mounting of reversing starters. 1-0-A switch for manual or automatic operation. Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used.
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
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
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
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		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)
Terminal capacities		
Terminal capacity		0.2 - 1.5 mm ² (AWG 24 - 16), solid 0.25 - 1.5 mm ² , flexible with ferrule
Electrical rating		
Input current at signal 1		0 mA
Output current		0.5 A
Supply voltage at AC, 50 Hz - min		0 V AC
Supply voltage at AC, 50 Hz - max		0 V AC
Supply voltage at DC - min		15 V DC
Supply voltage at DC - max		15 V DC
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
Design verification		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		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.
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

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)		
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecI@ss13-27-24-26-04 [BAA055019])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	15 - 15
Voltage type (supply voltage)		DC
Number of digital inputs		0
Number of digital outputs		1
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	0
Permitted voltage at input	V	15 - 15
Type of voltage (input voltage)		DC
Type of digital output		Other
Output current	A	0.5
Permitted voltage at output	V	20.4 - 28.8
Type of output voltage		DC
Short-circuit protection, outputs available		No
Number of HW-interfaces industrial Ethernet		0
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces parallel		0
Number of HW-interfaces wireless		0
Number of HW-interfaces USB		0
Number of HW-interfaces other		2
With optical interface		No
Supporting protocol for EtherCAT		No

Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for Modbus		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for other bus systems		Yes
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
System accessory		Yes
Degree of protection (IP)		IP20
Type of electric connection		Spring clamp connection
Time delay at signal change	ms	10 - 84
Fieldbus connection over separate bus coupler possible		Yes
Rail mounting possible		No
Wall mounting/direct mounting		No
Front built-in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Certified for UL hazardous location class I		No
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Certified for UL hazardous location division 1		No
Certified for UL hazardous location division 2		No
Certified for UL hazardous location group A (acetylene)		No
Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group C (ethylene)		No
Certified for UL hazardous location group D (propane)		No
Certified for UL hazardous location group E (metal dusts)		No
Certified for UL hazardous location group F (carbonaceous dusts)		No

Certified for UL hazardous location group G (non-conductive dusts)			No
Width		mm	54
Height		mm	39
Depth		mm	81