

Function element, MSC-DEA / XTSEA

Part no. PKE-SWD-32
Article no. 126895

Delivery programme

Product range			SmartWire-DT slave
Subrange			SmartWire-DT PKE module (motor-starter combinations)
Basic function			Motor protection Motor protection for heavy starting duty
Product range			Accessories
Accessories			SmartWire-DT PKE module (motor-starter combinations)
Function			For connecting the motor-starter combination to SmartWire-DT, "expanded" 24 VDC version (MSC-DEA…) up to 15 kW.
Description			Surface-mounting to contactors. One module per contactor and PKE necessary. Additional SWD contactor module required fir actuation of reversing starter. 1 electrical interlock for the surface mounting of reversing starters. 1-0-A switch for manual or automatic operation. Selectable overload relay function (ZMR) for switching off the contactor on overload. Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used. For current consumption of the contactor coils > 3 A (UL/CSA > 2 A) use additional power feeder module. A2 connections must not be bridged.
Messages			Switch position contactor/PKE/1-0-A switch Motor current in % Thermal motor image in % Trip indications (Overload, Short-circuit,...) Set value of overload releases Set time lag (CLASS) Part no. of trip block
Commands			Contactor actuation Activation Overload relay function (ZMR)
Information about equipment supplied			Connecting cable between module and trip block PKE-XTUA-… included as standard.
For use with			DILM(C)7… - DILM(C)32 MSC-DEA
Connection to SmartWire-DT			yes
Connection type			Push in terminals

Approvals

Product Standards	UL508; CSA-C22.2 No. 14; IEC60847-4-1; CE marking
UL File No.	E29184
UL CCN	NKCR
CSA File No.	165628
CSA Class No.	3211-07
NA Certification	UL listed, CSA certified
Specially designed for NA	No

General

Standards			IEC/EN 61131-2 EN 50178 IEC/EN 60947
Dimensions (W x H x D)		mm	45 x 38 x 76
Weight		kg	0.04
Mounting			on DILM7…DILM32
Mounting position			as DILM7 to DILM32

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations (IEC/EN 61131-2:2008)			
Constant amplitude 3,5 mm		Hz	5 - 8.4
Constant acceleration 1 g		Hz	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	9
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3

Electromagnetic compatibility (EMC)

Overvoltage category			II
Pollution degree			2
Electrostatic discharge (IEC/EN 61131-2:2008)			
Air discharge (Level 3)		kV	8
Contact discharge (Level 2)		kV	4
Electromagnetic fields (IEC/EN 61131-2:2008)			
80 - 1000 MHz		V/m	10
1.4 - 2 GHz		V/m	3
2 - 2.7 GHz		V/m	1
Radio interference suppression SmartWire-DT			
Radio interference suppression			EN 55011 Class A
Burst (IEC/EN 61131-2:2008, Level 3)			
SmartWire-DT cables			
Signal lines		kV	1
CAN/DP-bus cable			
AS-Interface cables		kV	1
Radiated RFI (IEC/EN 61131-2:2008, Level 3)		V	10

Climatic environmental conditions

Operating ambient temperature (IEC 60068-2)		°C	
Ambient temperature		°C	-25 - +60
Condensation			Take appropriate measures to prevent condensation
Storage	ϑ	°C	-30 - +70
relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95

SmartWire-DT network

Station type			SmartWire-DT slave
Address allocation			automatic
Status SmartWire-DT		LED	green/orange
Connections			Plug, 8-pole
Connection			External device plug SWD4-8SF2-5
Current consumption		mW	
15-V-SWD supply		mA	58
24-V-DC-SWD control voltage	U_{aux}		See the contactor's pick-up current and holding current (max. 0.5 A).

Operating mode

Manual/automatic mode			yes
Setting			Rotary switch

Connection auxiliary contact

Cable length		m	2.8
Connection type			Push in terminals

Terminal capacities

Solid		mm^2	0.2 - 1.5 (AWG 24 - 16)
Flexible with ferrule		mm^2	0.25 - 1.5

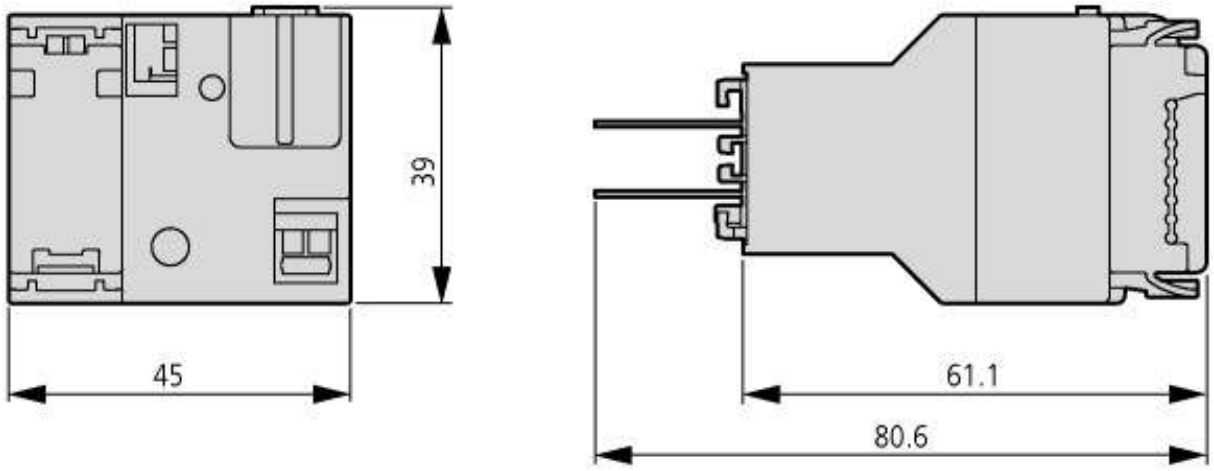
Technical data ETIM 4.0

Radiostandard Bluetooth			No
Short-circuit protective device, outputs available			No
Type of voltage (input voltage)			DC
Flush mounting plates possible			No
Height		mm	38
Performance level acc. to EN ISO 13849-1			A
Number of HW-interfaces other			2
Number of outputs			1
Supporting protocol for PROFIsafe			No
Supply voltage DC		V	15
Supply voltage AC 60 Hz		V	0
Supporting protocol for EtherNet/IP			No

IO link master		No
Number of HW-interfaces USB		0
Supporting protocol for TCP/IP		No
With optical interface		No
Wall mounting/direct mounting		No
Number of HW-interfaces serial TTY		0
Appendant apparatus (Ex ib)		No
Supporting protocol for other bus systems		YES
Supporting protocol for DeviceNet Safety		No
Protection type (IP)		IP20
Supporting protocol for PROFINET IO		No
Supporting protocol for Data-Highway		No
Voltage type of supply voltage		DC
Supporting protocol for CAN		No
Type of electric connection		Spring clamp connection
Category to EN 954-1		1
Number of inputs		0
Permitted voltage at input	V	15
Number of HW-interfaces RS232		0
Rack-mounting possible		No
Input current at signal 1	mA	0
Width	mm	45
System component		YES
Explosion safety category for dust		without
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for SUCONET		No
Supporting protocol for DeviceNet		No
Supporting protocol for SafetyBUS p		No
Fieldbus connection over separate bus terminal possible		YES
Depth	mm	77.3
SIL according to IEC 62061		0
Supporting protocol for EIB		No
SIL according to IEC 61508		0
Output current	A	0.5
Type of digital output		-
Radiostandard WLAN 802.11		No
Associated apparatus (Ex ia)		No
Delay time on signal change	ms	84
Number of HW-interfaces Wireless		0
Supporting protocol for MODBUS		No
Supporting protocol for SERCOS		No
Safety class according to DIN V 19250		0
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for LON		No
Supporting protocol for INTERBUS		No
Type of output voltage		DC
Supporting protocol for PROFIBUS		No
Number of Industrial Ethernet HW interfaces		0
Number of HW-interfaces PROFINET		0
Permitted voltage at output	V	28.8
Supporting protocol for AS-Interface Safety at Work		No
Number of HW-interfaces RS485		0
Explosion protection for gas		without
Supporting protocol for AS-Interface		No
Supporting protocol for PROFINET CBA		No

Supply voltage AC 50 Hz		V	0
Number of HW-interfaces parallel			0
Rail mounting possible			No
Number of HW-interfaces RS422			0
In-/outputs configurable			No
Suitable for safety functions			No

Dimensions



SmartWire-DT PKE module (motor-starter combinations)

Additional product information (links)

IL03402024Z (AWA1210-2706) SmartWire-DT: Function element for PKE12/32, MSC-DEA	
IL03402024Z (AWA1210-2706) SmartWire-DT: Function element for PKE12/32, MSC-DEA	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402024Z2010_08.pdf
MN05006001Z-EN(AWB2723-1613) SmartWire-DT, Unit	
MN05006001Z-DE (AWB2723-1613) SWD-Teilnehmer - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf
MN05006001Z-EN(AWB2723-1613) SmartWire-DT, Unit - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf
MN05006001Z-IT (AWB2723-1613) SmartWire-Darwin utenti - italiano	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf
Motor starters and "Special Purpose Ratings" for the North American market	http://www.moeller.net/binary/ver_techpapers/ver953en.pdf
Busbar Component Adapters for modern Industrial control panels	http://www.moeller.net/binary/ver_techpapers/ver960en.pdf

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