Function element, MSC-DEA / XTSEA

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

Powering Business Worldwide™

Program

Product range			SmartWire-DT slave
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.
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

Notes

- Take into account the max. current consumption of the contactor coils per SmartWire-Darwin line.
- A2 connections must not be bridged.
- Wiring sets DILM 12-XRL and PKZM0-XRM12 cannot be used.
- Additional SWD contactor module required fir actuation of reversing starter.

Approvals

UL approval	Yes
CSA approval	Yes
NA Certification	Request filed for UL and CSA

Part no.			PKE-SWD-32

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)		EN 55011 Class A
Burst (IEC/EN 61131-2:2008, Level 3)		
CAN/DP bus cable	kV	1
SmartWire-DT 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	°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
SmartWire-DT status LED	LED	green/orange
Connections		Plug, 8-pole
Connection		External device plug SWD4-8SF2-5
Current consumption	mA	58
Pick-up power		
for DILM 7-9	W	3
for DILM 12-15	W	4.5
for DILM 17-38	W	12
Pick-up current		
for DILM 7-9	mA	125
for DILM 12-15	mA	188
for DILM 17-38	mA	500
Holding power		
for DILM 7-9	W	3
for DILM 12-15	W	4.5
for DILM 17-38	W	0.5
Holding current		
for DILM 17-38	mA	21
for DILM 12-15	mA	188
for DILM 7-9	mA	125

Mode parameter

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

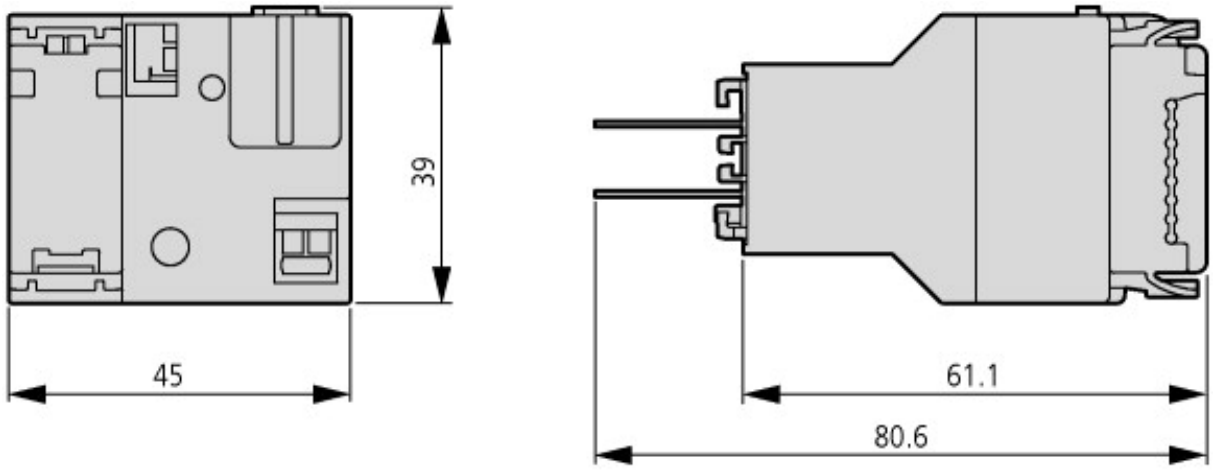
Technical data according to ETIM 4.0

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