Function element, contactor, SmartWire-DT, DIL/MSC



Part no. DIL-SWD-32-001

118560 4519766

EL Number

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series DIL-SWD SWD contactor module
Part no.	DIL-SWD-32-001
EAN	4015081168309
Product Length/Depth	72 millimetre
Product height	38 millimetre
Product width	45 millimetre
Product weight	0.04 kilogram
Certifications	IEC/EN 60947-4-1 IEC/EN 60947 EN 50178 UL File No.: E29184 IEC/EN 61131-2 CE CSA CSA Class No.: 3211-07 UL 508 CSA-C22.2 No. 14-05 CSA File No.: 2324643 UL UL Category Control No.: NKCR
Product Tradename	DIL-SWD
Product Type	Accessory
Product Sub Type	SWD contactor module
Catalog Notes	1 electrical interlock for the surface mounting of reversing starters Minimum length 8 mm.
Features & Functions	
Features	Fieldbus connection over separate bus coupler possible
Functions	Contactor actuation Display of Switch status Contactor, status of the digital inputs 1 and 2 For connecting the contactors to SmartWire-DT
Fitted with:	Own supply
Electric connection type	Spring clamp connection
General information	
Cable length	≤ 2.8 m, Connection auxiliary contact
Current consumption	40 mA, SmartWire-DT network
Degree of protection	IP20
Input current at signal 1	3 mA
Number of inputs (digital)	2
Number of outputs (digital)	1
Output current	0.5 A
Overvoltage category	II
Pollution degree	2
Product category	SmartWire-DT slave
Protocol	Other bus systems
Туре	SWD contactor modules
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 DILM38

Shock resistance	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms 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)
lectro magnetic compatibility	
Air discharge	8 kV, according to IEC 61131-2, level 3, ESD
Burst impulse	1 kV, Signal cable, according to IEC/EN 61131-2, Level 3 1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3
Contact discharge	4 kV, according to IEC/EN 61131-2, Level 2, ESD
Electromagnetic fields	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) 3 V/m at 1.4 - 2 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)
erminal capacities	
Terminal capacity	0.2 - 1.5 mm ² (24 - 16 AWG), solid 0.25 - 1.5 mm ² , flexible with ferrule
Electrical rating	
Rated operational voltage	15 V DC (auxiliary contact)
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
Magnet system	
Pick-up current	500 mA (for DILM 17-38) 188 mA (for DILM 12-15) 125 mA (for DILM 7-9)
Power consumption	3 W for DILM 7-9 (Pick-up power) 4.5 W for DILM 12-15 (Pick-up power) 4.5 W for DILM 12-15 (Sealing power) 12 W for DILM 17-38 (Pick-up power) 3 W for DILM 7-9 (Sealing power) 0.5 W for DILM 17-38 (Sealing power)
Sealing current	125 mA, SmartWire-DT network for DILM 7-9 21 mA, SmartWire-DT network for DILM 17-38 188 mA, SmartWire-DT network for DILM 12-15
Communication	
Addressing	Address set automatically
Connection to SmartWire-DT	Yes
Connection type	Push in terminals, Auxiliary contact SWD: Plug, 8-pole External device plug SWD4-8SF2-5, SmartWire-DT
LED indicator	Status indication of SmartWire-DT network: Green and orange LED
Station	SmartWire-DT slave, SmartWire-DT network
Contacts	
Number of auxiliary contacts	2
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Potential isolation	Connection auxiliary contact: no
Design verification	
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)	· · ·

Static heat dissipation, non-current-dependent Pvs	0.8 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 (ecl@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		2
Number of digital outputs		1
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	3
Permitted voltage at input	V	15 - 15
Type of voltage (input voltage)		DC
Type of digital output		None
Output current	А	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		1

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 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	45
Height	mm	38
Depth	mm	72