

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

Part no. DIL-SWD-32-001
118560
EL Number 4519766
(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
Type		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, 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, 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)
Terminal 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 P _{vid}		0 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		0 W
Rated operational current for specified heat dissipation (I _n)		0 A

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 8.0

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - digital I/O module (EC001599)		
Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O module (ecl@ss10.0.1-27-24-26-04 [BAA055014])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	15 - 15
Voltage type of 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	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		1

With optical interface		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 Wi-Fi 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 exchange	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
Width	mm	45
Height	mm	38
Depth	mm	72