

**Part no.**                    **DIL-SWD-32-002**  
                                      **118561**  
**EL Number**                **4519767**  
**(Norway)**

<b>General specifications</b>		
Product name		Eaton Moeller® series DIL-SWD SWD contactor module
Part no.		DIL-SWD-32-002
EAN		4015081168316
Product Length/Depth		72 millimetre
Product height		38 millimetre
Product width		45 millimetre
Product weight		0.037 kilogram
Certifications		UL 508 CSA-C22.2 No. 14-05 IEC/EN 60947-4-1 EN 50178 CE UL CSA Class No.: 3211-07 UL Category Control No.: NKCR CSA File No.: 2324643 CSA IEC/EN 60947 UL File No.: E29184 IEC/EN 61131-2
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 1-0-A switch for manual or automatic operation. Minimum length 8 mm.
<b>Features &amp; Functions</b>		
Features		Fieldbus connection over separate bus coupler possible
Functions		Display of Contactor switching position, status of the digital inputs 1 and 2, 1-0-A switch position For connecting the contactors to SmartWire-DT Contactor actuation
Fitted with:		Own supply
Electric connection type		Spring clamp connection
Operating mode		Address allocation via Rotary switch Control mode
<b>General information</b>		
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
<b>Ambient conditions, mechanical</b>		
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
<b>Climatic environmental conditions</b>		
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)
<b>Electro magnetic compatibility</b>		
Air discharge		8 kV, according to IEC 61131-2, level 3, ESD
Burst impulse		1 kV, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3 1 kV, 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		3 V/m at 1.4 - 2 GHz (according to IEC/EN 61131-2:2008) 10 V/m at 80 - 1000 MHz (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)
<b>Terminal capacities</b>		
Terminal capacity		0.2 - 1.5 mm <sup>2</sup> (24 - 16 AWG), solid 0.25 - 1.5 mm <sup>2</sup> , flexible with ferrule
<b>Electrical rating</b>		
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
<b>Magnet system</b>		
Pick-up current		125 mA (for DILM 7-9) 188 mA (for DILM 12-15) 500 mA (for DILM 17-38)
Power consumption		3 W for DILM 7-9 (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) 4.5 W for DILM 12-15 (Pick-up power) 0.5 W for DILM 17-38 (Sealing power)
Sealing current		188 mA, SmartWire-DT network for DILM 12-15 21 mA, SmartWire-DT network for DILM 17-38 125 mA, SmartWire-DT network for DILM 7-9
<b>Communication</b>		
Addressing		Address set automatically
Connection to SmartWire-DT		Yes
Connection type		SWD: Plug, 8-pole Push in terminals, Auxiliary contact 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
<b>Contacts</b>		
Number of auxiliary contacts		2
<b>Safety</b>		
Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Connection auxiliary contact: no
<b>Design verification</b>		
Equipment heat dissipation, current-dependent P <sub>vid</sub>		0 W
Heat dissipation capacity P <sub>diss</sub>		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		0.8 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