DATASHEET - EU1M-SWD-NOP



SWD T-Connector Universal module IP69K

Part no. **EU1M-SWD-NOP**
174716

General specifications	
Product name	Eaton SWD4 Accessory Plug-in connection
Part no.	EU1M-SWD-NOP
EAN	4015081712021
Product Length/Depth	85.6 millimetre
Product height	20.1 millimetre
Product width	41.1 millimetre
Product weight	0.05 kilogram
Certifications	UL File No.: E170645 UL IEC/EN 61131-2 CSA
Product Tradename	SWD4
Product Type	Accessory
Product Sub Type	Plug-in connection
Catalog Notes	Substitute module for configured but not yet installed SWD modules (IP67)
Features & Functions	
Functions	For configured but not yet installed SWD modules connected to the SWD ribbon cable SWD4-..LR5-2S
General information	
Current consumption	45 mA, SmartWire-DT network, 24 V, without sensor and without I/O supply
Degree of protection	IP69 IP69 (according to IEC/EN 60529, EN 50178, VBG 4)
Overvoltage category	II
Pollution degree	3
Product category	SmartWire-DT slave
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 required
Shock resistance	30 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 9 Impacts
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-3 Dry heat to IEC 60068-2-2
Environmental conditions	Condensation: permissible
Operating temperature - min	-25 °C
Operating temperature - max	70 °C
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, SmartWire-DT cable, according to IEC/EN 61131-2, Level 3 1 kV, Signal cable, according to IEC/EN 61131-2, Level 3 2 kV, Supply 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) 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)
Radiated RFI	10 V (IEC/EN 61131-2:2008, Level 3)
Radio interference class	Class A (EN 55011)
Surge rating	1 kV, Surge I/O cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC 0.5 kV, Surge power cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC

Electrical rating

Power loss	0.9 W

Communication

Connection to SmartWire-DT	Yes
Connection type	SWD-OUT: M12 socket (A-keyed), 5 pole SWD-IN : M12 plug (A-keyed), 5 pole 5-pin M12 socket (A-keyed), Supply and I/O sensor
Data transfer rate	Setting automatically 2 MBit/s, SmartWire-DT
LED indicator	Status indication of SmartWire-DT network: Green LED
Station	SmartWire-DT slave, SmartWire-DT network

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)	0 A
Static heat dissipation, non-current-dependent Pvs	0.9 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	Meets the product standard's requirements.
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.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
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) / Accessories/spare parts for controls (EC002584)

Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Panel (HMI, accessories) (ecl@ss13-27-33-02-92 [AFX005008])

Type of electrical accessory/spare part	Adapter
Type of mechanical accessory/spare part	Other
Accessory	Yes
Spare part	No

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