SWD Block module I/O module IP69K, 24 V DC, 8 outputs with separate power supply, 4 M12 I/O sockets



Part no. EU6E-SWD-8XD-1 183270

General specifications	
Product name	Eaton EU6E Digital module
Part no.	EU6E-SWD-8XD-1
EAN	4015081782031
Product Length/Depth	34 millimetre
Product height	156.8 millimetre
Product width	60.8 millimetre
Product weight	0.25 kilogram
Certifications	CSA UL IEC/EN 61131-2
Product Tradename	EU6E
Product Type	Digital module
Product Sub Type	None
Catalog Notes	with supply
eatures & Functions	
Electric connection type	Screw connection
Features	Short-circuit protection (sensor supply) Fieldbus connection over separate bus coupler possible Overload proof (with diagnostics) Overload protection (sensor supply)
Functions	Short-circuit protection, outputs available For connection of digital I/O signals
eneral information	
Current consumption	70 mA, Max. current consumption per M12 I/O plug, Sensor supply, SmartWire-D network 74 mA, SmartWire-DT network, 24 V, without sensor and without I/O supply
Degree of protection	IP69K
Overvoltage category	II II
Pollution degree	3
Product category	SmartWire-DT slave
Residual ripple	≤ 5 % (input voltage)
Туре	Digital modules
Voltage type	DC
mbient 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, Impacts
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °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 Operating temperature - max	-25 °C 55 °C
Relative humidity	5 - 95 % (non-condensing, IEC/EN 60068-2-30)
Electro magnetic compatibility	3 - 33 % (Horr-condensing, IEG/EN 00000-2-30)
	9 kV according to IEC 61121 2 Javel 2 ECD
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 2 kV, Supply 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)
Surge rating	0.5 kV, Surge power cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC 1 kV, Surge I/O cables, Surge (IEC/EN 61131-2:2008, Level 1), EMC
Electrical rating	
Input current at signal 1	0 mA
Output current	0.5 A
Power loss	1.7 W
Rated operational voltage	24 V DC (-15 %/+ 20 % - power supply)
Short-circuit tripping current	Max. 1.2 A over 3 ms, Digital semi-conductor outputs
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	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Communication	
Connection to SmartWire-DT	Yes
Connection type	SWD-IN: M12 plug (A-keyed), 5 pole 5-pin M12 socket (A-keyed), Supply and I/O sensor SWD-OUT: M12 socket (A-keyed), 5 pole
Data transfer rate	Setting automatically 2 MBit/s, SmartWire-DT
LED indicator	Status indication of SmartWire-DT network: Green LED
Protocol	Other bus systems
Station	SmartWire-DT slave, SmartWire-DT network
nput/Output	
Lamp load	≤ 3 W (at RLL)
Number of inputs (digital)	0
Number of outputs (digital)	8
Output	8 Transistor Outputs
Switching capacity	IEC/EN 60947-5-1, utilization category DC-13, Digital outputs
Safety	
Explosion safety category for dust	None
Explosion safety category for gas	None
Protection against polarity reversal	Yes
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	1.7 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

Supporting protocol for CAN
Supporting protocol for INTERBUS

Supporting protocol for ASI

Supporting protocol for KNX

Programmable logic controllers PLC (EG000024) / Fieldbus, decentr. periphery - digital	al I/O module (EC00159	99)
Electric engineering, automation, process control engineering / Control, Process Conmodule (ecl@ss13-27-24-26-04 [BAA055019])	ntrol System (PCS) / Fi	ield bus, decentralized peripheral / Field bus, decentralized peripheral - digital I/O
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type (supply voltage)		DC
Number of digital inputs		0
Number of digital outputs		8
Digital inputs configurable		No
Digital outputs configurable		No
Input current at signal 1	mA	0
Permitted voltage at input	V	20.4 - 28.8
Type of voltage (input voltage)		DC
Type of digital output		Other
Output current	Α	0.5
Permitted voltage at output	V	20.4 - 28.8
Type of output voltage		DC
Short-circuit protection, outputs available		Yes
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		0
With optical interface		No
Supporting protocol for EtherCAT		No
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No

No

No

No

No

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