Product data sheet





safety module, Harmony XPS, zero speed monitoring with time delay, 24V AC or DC, screw

XPSUVN11AP

Main

Range of product	nge of product Harmony Safety Automation				
product or component type	Safety module				
safety module name	XPSUVN				
safety module application	For zero speed detection				
Function of module	Monitoring 3-phase motor Monitoring 3-phase motor with star-delta starting Monitoring 3-phase motor with variable number of poles Monitoring 3-phase motor with variable number of poles and star-delta starting Monitoring dc motor Monitoring servo motor Monitoring 3-phase motor supplied by variable speed drive Monitoring 3-phase motor supplied by servo drive Controlling enegization to open of guard switch type XCSE, XCSLE, XCSLF, XCST				
Safety level	Can reach PL e/category 3 for normally open relay contact ISO 13849-1 Can reach SILCL 3 for normally open relay contact IEC 62061 Can reach SIL 3 for normally open relay contact IEC 61508				
Safety reliability data	MTTFd > 30 years ISO 13849-1 Dcavg = 98.9 % ISO 13849-1 PFHd = 2.39E-9 1/h ISO 13849-1 HFT = 1 IEC 62061 PFHd = 2.39E-9 1/h IEC 62061 SFF > 99% IEC 62061 HFT = 1 IEC 61508-1 PFHd = 2.39E-9 1/h IEC 61508-1 SFF > 99% IEC 61508-1 Type = B IEC 61508-1				
Product certifications	TÜV cULus				
[Us] rated supply voltage	24 V AC - 1510 % 24 V DC - 2020 %				
Output type	Relay, 1 NO, volt-free				
Number of additional circuits	2 solid state outputs				
Complementary					
maximum power consumption in W	2.0 W				
Power consumption in VA	5.5 VA				

maximum power consumption in W	2.0 W
Power consumption in VA	5.5 VA
Input voltage	690 V

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Input detection threshold	50 mV			
	65 mV			
	85 mV			
	110 mV			
	140 mV			
	180 mV			
	230 mV			
	300 mV			
	400 mV			
	500 mV			
	300 1114			
Time delay	0.5 s			
	1 s			
	2 s			
	3 s			
	5 s			
	8 s			
	12 s			
	20 s			
	35 s			
	60 s			
	003			
[le] rated operational current	5 A AC-1 for normally open relay contact			
	3 A AC-15 for normally open relay contact			
	5 A DC-1 for normally open relay contact			
	3 A DC-13 for normally open relay contact			
FIAIR 2 conventional free air the model				
[Ith] conventional free air thermal current	6 A NO relay output circuit			
Associated fuse rating	6 A gG relay output IEC 60947-1			
Standards	IEC 60947-5-1			
	IEC 61508-1 functional safety standard			
	IEC 61508-2 functional safety standard			
	IEC 61508-3 functional safety standard			
	IEC 61508-4 functional safety standard			
	IEC 61508-5 functional safety standard			
	IEC 61508-6 functional safety standard			
	IEC 61508-7 functional safety standard			
	ISO 13849-1 functional safety standard			
	IEC 62061 functional safety standard			
Minimum output current	·			
<u> </u>	10 mA relay output			
Minimum output voltage	5 V relay output			
[Ui] rated insulation voltage	690 V phase to phase 2)IEC 60947-1			
	400 V phase to earth 2)IEC 60947-1			
[Uimp] rated impulse withstand voltage	4 kV II IEC 60947-1			
Local signalling	LED groop power power ON			
Looal digitality	LED green power power ON			
	LED red error error			
	LED yellow state status			
	LED yellow L12 input line comparison			
	LED yellow L32 input line comparison			
Connections - terminals	Removable screw terminal block solid or flexible 0.22.5 mm²			
	Removable screw terminal block solid of flexible vizh2.5 mm² single conductor			
	Removable screw terminal block solid or flexible 0.21.5 mm² twin conductor			
	Removable screw terminal block flexible with ferrule 2 x 0.251 mm² without cable			
	end, with bezel			
	Removable screw terminal block flexible with ferrule 2 x 0.51.5 mm² with cable end,			
	with bezel			
mounting support	35 mm symmetrical DIN rail			
Depth	4.7 in (120 mm)			
Height	3.9 in (100 mm)			
Width	0.9 in (22.5 mm)			
net weight	0.4 lb(US) (0.2 kg)			

Environment

IP degree of protection	IP20 terminals)IEC 60529 IP40 housing)IEC 60529 IP54 mounting area)IEC 60529	
Ambient air temperature for operation	-13131 °F (-2555 °C)	
Ambient air temperature for storage	-40158 °F (-4070 °C)	
Relative humidity	595 % non-condensing	

Packing Units

Unit Type of Package 1	PCE			
Number of Units in Package 1	1			
Package 1 Height	2.7 in (6.9 cm)			
Package 1 Width	5.3 in (13.5 cm)			
Package 1 Length	6.2 in (15.7 cm)			
Package 1 Weight	9.1 oz (259.0 g)			
Unit Type of Package 2	S03			
Number of Units in Package 2	16			
Package 2 Height	11.8 in (30 cm)			
Package 2 Width	11.8 in (30 cm)			
Package 2 Length	15.7 in (40 cm)			
Package 2 Weight	10.708 lb(US) (4.857 kg)			

Sustainability Screen Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

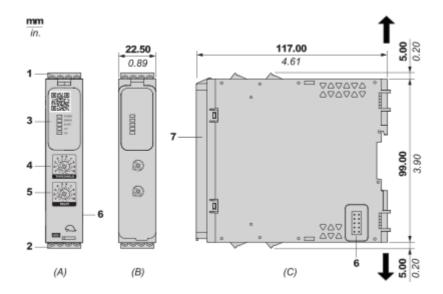
Certifications & Standards

Reach Regulation	Pro-active compliance (Product out of EU RoHS legal scope)		
Eu Rohs Directive			
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
Circularity Profile	End of Life Information		

Dimensions Drawings

Dimensions

Front and Side Views

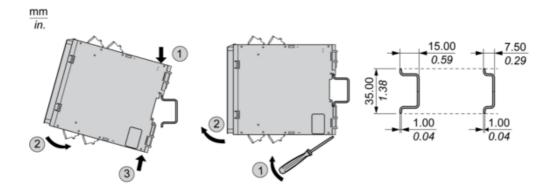


- (A): Product drawing
- (B) : Screw clamp terminal
- (C): Side view
- (1): Removable terminal blocks, top
- (2): Removable terminal blocks, bottom
- (3): LED indicators
- (4): Voltage threshold selector
- (5): Activation delay selector
- (6): Connector for optional output extension module XPSUEP (lateral)
- (7): Sealable transparent cover

mm in.	7.0–8.0 0.28–0.31					
	mm²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	3 2016
		(,c@)		Nm	0.5 0.6	
Ø 3,5 mm (0.14 in)				lb-in	4,4 5,3	

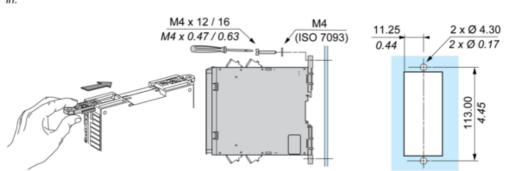
Mounting and Clearance

Mounting to DIN rail



Screw-mounting



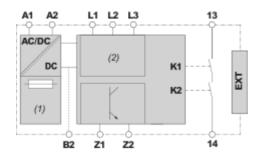


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Connections and Schema

Wiring Diagram



(1): A1-A2 (Power supply)

(2): L1-L2-L3 (Input channels of safety-related analog input)

13-14: Terminals of the safety-related outputs

B2: Terminal for common reference potential for 24 Vdc signals. The power supplies of the connected equipment must have a common reference potential to be connected to this terminal. In the case of XPSUVN31A•, terminal B2 must be grounded. In the case of XPSUVN11A•, the safety module is already grounded via the PELV power supply unit connected to terminals A1 and A2.

Z1: Pulsed output for diagnostics, not safety-related

Z2: Solid state output, not safety-related

EXIT: Connector for output extension module XPSUEP