Specifications





Safety module, Harmony Safety Automation, Zero speed monitoring with time delay, 24V AC/DC, screw

XPSUVN11AP

EAN Code: 3606482034051

Main

Range 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 conforming to ISO 13849-1 Can reach SILCL 3 for normally open relay contact conforming to IEC 62061 Can reach SIL 3 for normally open relay contact conforming to IEC 61508				
Safety Reliability Data	MTTFd > 30 years conforming to ISO 13849-1 Dcavg = 98.9 % conforming to ISO 13849-1 PFHd = 2.39E-9 1/h conforming to ISO 13849-1 HFT = 1 conforming to IEC 62061 PFHd = 2.39E-9 1/h conforming to IEC 62061 SFF > 99% conforming to IEC 62061 HFT = 1 conforming to IEC 61508-1 PFHd = 2.39E-9 1/h conforming to IEC 61508-1 SFF > 99% conforming to IEC 61508-1 Type = B conforming to IEC 61508-1				
Product Certifications	TÜV cULus				
[Us] Rated Supply Voltage	24 V AC - 1510 % 24 V DC - 2020 %				
Output Type	Relay, 1 NO circuit(s), volt-free				
Number Of Additional Circuits	2 solid state outputs				

Complementary

Power Consumption In W	2.0 W
Power Consumption In Va	5.5 VA
Input Voltage	690 V

Input Detection Threshold	50 mV			
	65 mV			
	85 mV			
	110 mV			
	140 mV			
	180 mV			
	230 mV			
	300 mV			
	400 mV			
	500 mV			
Time Delay	0.5 s			
Time Belay	1s			
	2 s			
	3 s			
	5 s			
	8 s			
	12 s			
	20 s			
	35 s			
	60 s			
[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			
[Ith] Conventional Free Air Thermal Current	6 A for NO relay output circuit			
Associated Fuse Rating	6 A gG for relay output conforming to 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	10 mA for relay output			
Minimum Output Voltage	5 V for relay output			
[Ui] Rated Insulation Voltage	690 V phase to phase (pollution degree 2) conforming to IEC 60947-1 400 V phase to earth (pollution degree 2) conforming to IEC 60947-1			
[Uimp] Rated Impulse Withstand	4 kV overvoltage category II conforming to IEC 60947-1			
Voltage				
Local Signalling	LED green with power marking for power ON			
	LED red with error marking for error			
	LED yellow with state marking for status			
	LED yellow with L12 marking for input line comparison			
	LED yellow with L32 marking for input line comparison			
Connections - Terminals	Removable screw terminal block solid or flexible cable: 0.22.5 mm ²			
	Removable screw terminal block flexible with ferrule cable: 0.252.5 mm ² single			
	conductor			
	Removable screw terminal block solid or flexible cable: 0.21.5 mm ² twin conductor			
	Removable screw terminal block flexible with ferrule cable: 2 x 0.251 mm ² without			
	cable end, with bezel			
	Removable screw terminal block flexible with ferrule cable: 2 x 0.51.5 mm ² with			
	cable end, with bezel			
Mounting Support	35 mm symmetrical DIN rail			
Depth	120 mm			
Height	100 mm			
Width	22.5 mm			
Net Weight	0.2 kg			

Environment

Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP54 (mounting area) conforming to IEC 60529	
Ambient Air Temperature For Operation	-2555 °C	
Ambient Air Temperature For Storage	-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	6.9 cm
Package 1 Width	13.5 cm
Package 1 Length	15.7 cm
Package 1 Weight	259.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	16
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.857 kg

Contractual warranty

Warranty

18 months

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.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

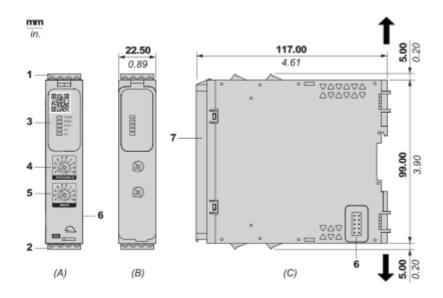
Certifications & Standards

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
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



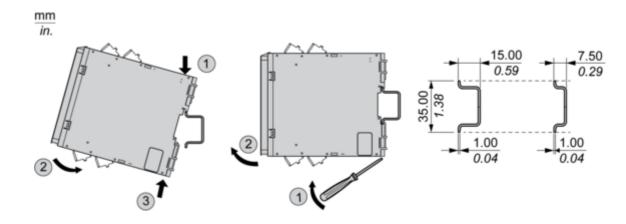
- (A) : Product drawing
- (B) : Screw clamp terminal
- (C) : Side view
- (1): Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3): LED indicators
- (4) : Voltage threshold selector
- (5) : Activation delay selector
- (6) : Connector for optional output extension module XPSUEP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

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

XPSUVN11AP

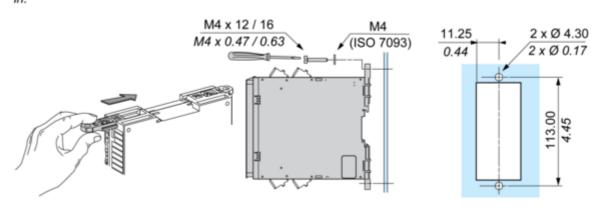
Mounting and Clearance

Mounting to DIN rail

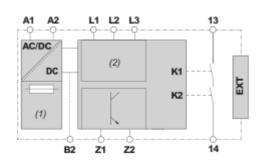


Screw-mounting

mm in.



Connections and Schema



(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