

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

XPSUVN11AP

Product availability : Stock - Normally stocked in distribution facility

#### Main

Harmony Safety Automation				
Safety module				
XPSUVN				
For zero speed detection				
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				
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				
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				
ΤÜV				
cULus				
24 V AC - 1510 %				
24 V DC - 2020 %				
Relay, 1 NO, volt-free				
Relay, 1 NO, voit-flee				

#### 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

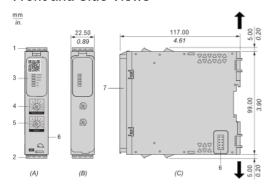
	400 mV 500 mV				
Time delay	0.5 s 1 s 2 s 3 s 5 s 8 s 12 s 20 s 35 s 60 s				
[le] rated operational current	5 A AC-1 3 A AC-15 5 A DC-1 3 A DC-13				
[Ith] conventional free air thermal current	6 A NO relay output circuit				
Associated fuse rating	6 A gG relay output IEC 60947-1				
Standards	IEC 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 IEC 62061 functional safety standard				
Minimum output current	10 mA relay output				
Minimum output voltage	5 V relay output				
[Ui] rated insulation voltage	690 V phase to phase 2)EN/IEC 60947-1 400 V phase to earth 2)EN/IEC 60947-1				
[Uimp] rated impulse withstand voltage	4 kV II EN/IEC 60947-1				
Local signalling  Connections - terminals	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  Removable screw terminal block solid or flexible 0.22.5 mm² Removable screw terminal block flexible with ferrule 0.252.5 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	4.72 in (120 mm)				
Height	3.94 in (100 mm)				
Width	0.89 in (22.5 mm)				
Net weight	0.44 lb(US) (0.2 kg)				
Environment					
IP degree of protection	IP20 terminals)EN/IEC 60529 IP40 housing)EN/IEC 60529 IP54 mounting area)EN/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				
Ordering and shipping de	etails				
Category	22477-SAFETY MODULES (PREVENTA)				

GTIN	3606482034051				
Nbr. of units in pkg.	1				
Package weight(Lbs)	9.35 oz (265 g)				
Returnability	Yes				
Packing Units					
Unit Type of Package 1	PCE				
Package 1 Height	2.52 in (6.4 cm)				
Package 1 width	5.24 in (13.3 cm)				
Package 1 Length	6.02 in (15.3 cm)				
Unit Type of Package 2	S03				
Number of Units in Package 2	16				
Package 2 Weight	10.72 lb(US) (4.861 kg)				
Package 2 Height	11.81 in (30 cm)				
Package 2 width	11.81 in (30 cm)				
Package 2 Length	15.75 in (40 cm)				
Package 3 Height	11.81 in (30 cm)				
Offer Sustainability					
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For mo information go to www.P65Warnings.ca.gov				
REACh Regulation	REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Mercury free	Yes				
RoHS exemption information	Yes				
China RoHS Regulation	China RoHS declaration				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End of Life Information				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.				

**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

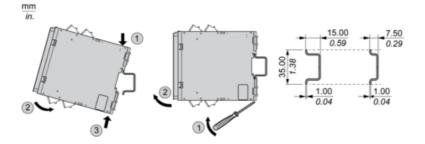
mm in.	7.0–8.0 0.28–0.31	11	44	== ==	æ	- @>-
	mm <sup>2</sup>	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
			()06	(1) (1)	Nm	0.5 0.6
Ø 3,5 mm (0.14 in)		C.06	سرره	lb-in	4,4 5,3	

### **Product data sheet**

# XPSUVN11AP

Mounting and Clearance

### Mounting to DIN rail

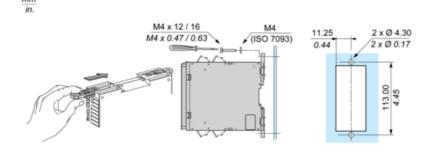


# **Product data sheet**

# XPSUVN11AP

Mounting and Clearance

### **Screw-mounting**

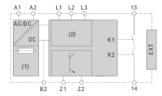


### Product data sheet

### XPSUVN11AP

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

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