

Product data sheet

Specifications



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

XPSUVN11AC

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 657.00 USD

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 energization 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 - 15...10 % 24 V DC - 20...20 %
Output type	Relay, 1 NO, volt-free
Number of additional circuits	2 solid state outputs

Complementary

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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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
[Ie] 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 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	10 mA relay output
Minimum output voltage	5 V relay output
[Uij] 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 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 spring terminal block solid or flexible 0.2...2.5 mm ² Removable spring terminal block flexible with ferrule 0.25...2.5 mm ² single conductor Removable spring terminal block solid or flexible 0.2...1.5 mm ² twin conductor Removable spring terminal block flexible with ferrule 2 x 0.25...1 mm ² without cable end, with bezel Removable spring terminal block flexible with ferrule 2 x 0.5...1.5 mm ² 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	-13...131 °F (-25...55 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Relative Humidity	5...95 % non-condensing

Ordering and shipping details

Category	US1SAF222477
Discount Schedule	SAF2
GTIN	3606482039315
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.500 cm)
Package 1 Width	5.31 in (13.500 cm)
Package 1 Length	6.10 in (15.500 cm)
Package 1 Weight	9.242 oz (262.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	10.955 lb(US) (4.969 kg)

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)

[How we assess product sustainability >](#)



Transparency

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

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](#)

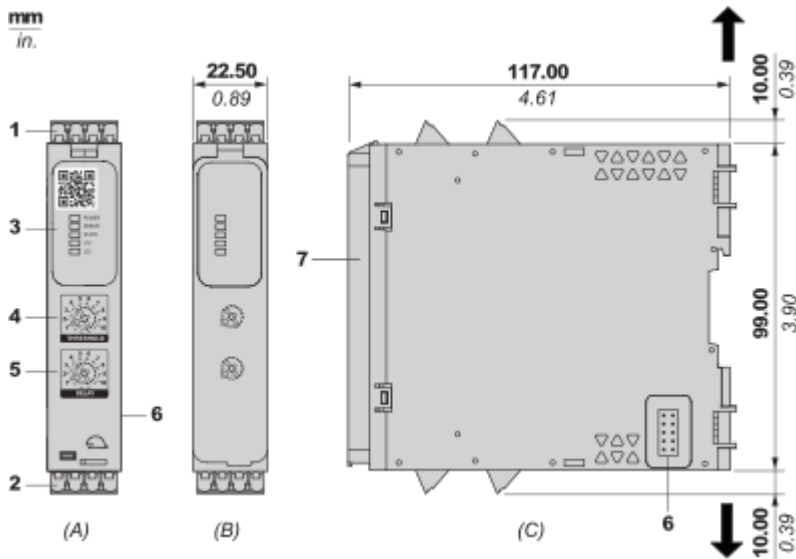
California Proposition 65 **WARNING:** This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Scip Number 152cf799-1df7-4892-81b4-4c890187f1d1

Dimensions Drawings

Dimensions

Front and Side Views

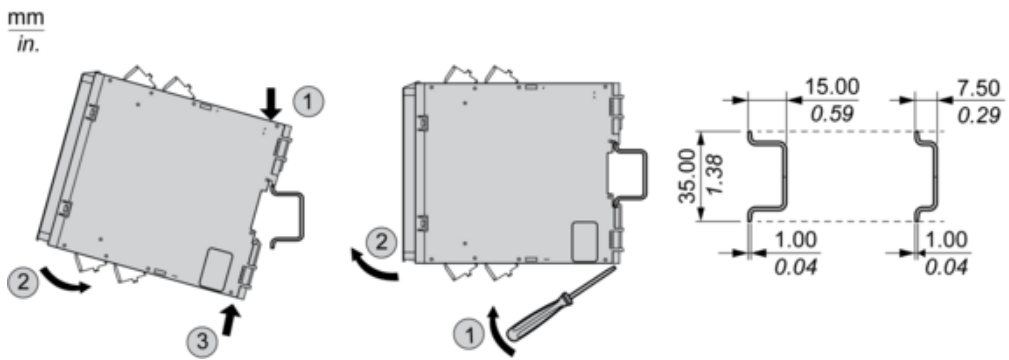


- (A) : Product drawing
- (B) : Spring terminal
- (C) : Side view
- (1) : Removable terminal blocks, top
- (2) : Removable terminal blocks, bottom
- (3) : LED indicators
- (4) : Voltage threshold selector
- (5) : Activation delay selector
- (6) : Connector for optional output extension module XPSUEP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

mm in.	12.0 0.47					
	mm ²	0,2...2,5	0,25...2,5	0,2...1,5	0,25...1	0,5...1,5
	AWG	24...12	24...12	24...16	24...18	20...16

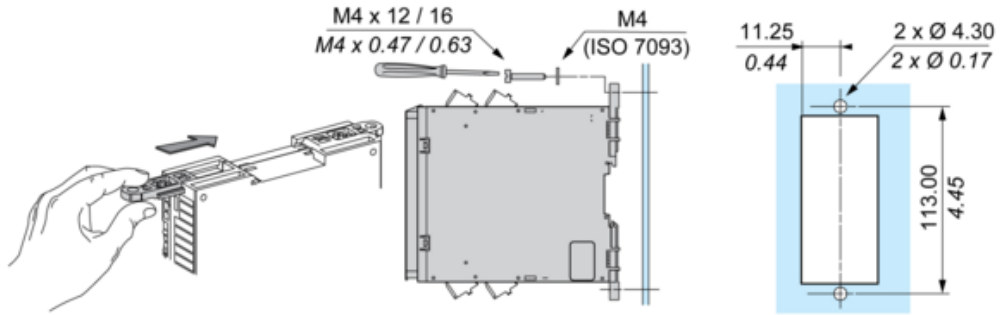
Mounting and Clearance

Mounting to DIN rail



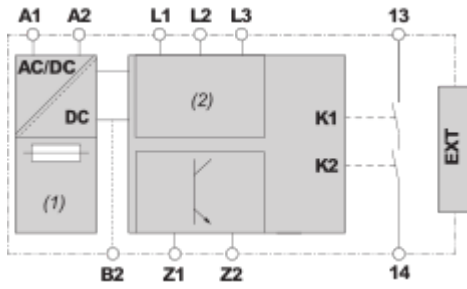
Screw-mounting

mm
in.



Connections and Schema

Wiring Diagram



(1) : A1-A2 (Power supply)

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

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

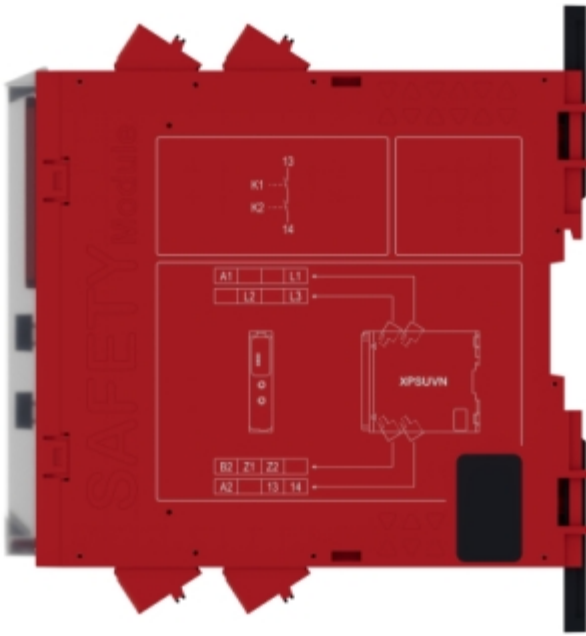
EXIT : Connector for output extension module XPSUEP

Image of product / Alternate images

Alternative







Harmony
XPSUVN11AC
 Safety module

Rated Voltage Un : 24 V AC +10%/15% DC +7.20%
 Frequency range AC : 50 Hz -5% ... 60 Hz +5%
 Power consumption : 3 W / 6.5 VA

AC-15 : Un 250 V AC, In 3 A (INC), Ie 1 A (INC)
 DC-13 : Un 24 V DC, In 3 A (INC), Ie 1 A (INC)

Σ Ib ≤ 2 x 10 A

IEC 60947-5-1 GB/T 14048.5

IEC 61008 - up to SIL 3
 ISO 13849-1 - PL e Category 4
 Response time : ≤ 20 ms
 See instruction sheet

Surrounding air temperature : -25 °C to +55 °C
 Degree of Protection : IP 40 / IP 20 (Terminals)
 Use minimum 75°C copper conductors only

SN: XXXXXXXXXX
 PV: 00 RL: 00 SV: 00
 PP:YYYY@www

Schneider Electric Schneiderstr. 1
 DE 97928 Marktstedenfeld

UL
 5554079
 IND CONT
 EQ

EAC

CCC

R-R-SE: XPSUVN11AC

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