

XPSUVN11AP

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



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, X-CST
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 - 15...10 % 24 V DC - 20...20 %
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 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 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 EN/IEC 60947-1 400 V phase to earth (pollution degree 2) conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	4 KV overvoltage category II conforming to EN/IEC 60947-1
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: 0.2...2.5 mm ² Removable screw terminal block flexible with ferrule cable: 0.25...2.5 mm ² single-conductor Removable screw terminal block solid or flexible cable: 0.2...1.5 mm ² twin conductor Removable screw terminal block flexible with ferrule cable: 2 x 0.25...1 mm ² without cable end, with bezel Removable screw terminal block flexible with ferrule cable: 2 x 0.5...1.5 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 EN/IEC 60529 IP40 (housing) conforming to EN/IEC 60529 IP54 (mounting area) conforming to EN/IEC 60529
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-40...70 °C
Relative humidity	5...95 % non-condensing

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	265 G
Package 1 Height	6.4 Cm
Package 1 width	13.3 Cm
Package 1 Length	15.3 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Weight	4.861 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm
Package 3 Height	30 Cm

Offer Sustainability

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
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

Product Life Status : **Commercialised**