



# Preventa module Cat.4 features XPSUAK + delayed outputs 48-240vac/dc spring

XPSUAT33A3AC

EAN Code: 3606489601706

#### Main

Range of product	Harmony Safety Automation		
Product or component type	Safety module  XPSUAT		
Safety module name			
Safety module application	Monitoring antivalent contacts		
-	For emergency stop, guard and light curtain monitoring		
	Monitoring of pressure-sensitive 4-wire protective devices		
Function of module	Emergency stop button with 2 NC contacts		
	Guard monitoring with 1 or 2 limit switches		
	Monitoring 2 PNP sensors		
	Magnetic switch monitoring		
	Light curtain monitoring		
	RFID switch		
	Monitoring of electro-sensitive protection equipment (ESPE)		
	Sensing mat/edges		
	Proximity sensor monitoring		
	Monitoring 1 PNP + 1 NPN sensor		
Safety level	Can reach PL e/category 4 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		
	Can reach PL c/category 1 for normally closed relay contact conforming to ISO 13849-1		
	Can reach SILCL 1 for normally closed relay contact conforming to IEC 62061		
	Can reach SIL 1 for normally closed relay contact conforming to IEC 61508		
Safety reliability data	MTTFd > 30 years conforming to ISO 13849-1		
•	Dcavg >= 99 % conforming to ISO 13849-1		
	PFHd = 1.47E-09 conforming to ISO 13849-1 for SS0		
	PFHd = 1.48E-09 conforming to ISO 13849-1 for SS1		
	HFT = 1 conforming to IEC 62061		
	PFHd = 1.47E-09 conforming to IEC 62061 for SS0		
	PFHd = 1.48E-09 conforming to IEC 62061 for SS1		
	SFF > 99% conforming to IEC 62061		
	HFT = 1 conforming to IEC 61508-1		
	PFHd = 1.47E-09 conforming to IEC 61508-1 for SS0		
	PFHd = 1.48E-09 conforming to IEC 61508-1 for SS1		
	SFF > 99% conforming to IEC 61508-1		
	Type = B conforming to IEC 61508-1		
Electrical circuit type	NC pair		
	PNP pair		
	Antivalent pair		
	OSSD pair		
Connections - terminals	Removable spring terminal block, 0.22.5 mm² solid or flexible		
	Removable spring terminal block, 0.252.5 mm² flexible with ferrule single conductor		
	Removable spring terminal block, 0.21.5 mm² solid or flexible twin conductor		
	Removable spring terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with beze		
	Removable spring terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable end, with bezel		
[Us] rated supply voltage	48240 V AC/DC - 1010 %		
Osj rated supply voltage	70270 V NOIDO - 1010 /0		

#### Complementary

Synchronisation time between	0.5 s
inputs	2 s

	4 s				
Type of start	Automatic/manual/monitored				
Power consumption in W	4 W 48 V DC				
Power consumption in VA	10 VA 240 V AC 50/60 Hz				
Input protection type	Internal, electronic				
Safety outputs	1 NC configurable 3 NO configurable 3 NO immediate				
Safety inputs	2 positive safety input 24 V DC 8 mA 1 negative safety input				
Maximum wire resistance	500 Ohm				
Time delay range	0900 s off delay				
Input compatibility	Normally closed circuit conforming to ISO 14119 XC limit switch conforming to ISO 14119 Mechanical contact conforming to ISO 14119 Normally closed circuit conforming to ISO 13850 Antivalent pair conforming to ISO 14119 OSSD pair conforming to IEC 61496-1-2 3-wire proximity sensors PNP				
[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 3 A AC-1 for normally closed relay contact 1 A AC-15 for normally closed relay contact 3 A DC-1 for normally closed relay contact 1 A DC-13 for normally closed relay contact				
Control outputs	4 on/off configurable pulsed output				
Input/Output type	Pulsed output for diagnostics 24 V DC, 20 mA Z1, not safety-related Semiconductor output 24 V DC, 20 mA Z2, not safety-related				
[Ith] conventional free air thermal current	16 A				
Associated fuse rating	10 A gG for NO relay output circuit conforming to IEC 60947-1				
Minimum output current	20 mA for relay output				
Minimum output voltage	24 V for relay output				
Maximum response time on input open	20 ms				
[Ui] rated insulation voltage	250 V (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				
Mounting support	35 mm symmetrical DIN rail				
Depth	120 mm				
Height	100 mm				
Width	45 mm				
Net weight	0.350 kg				

## **Environment**

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 61508-7 functional safety standard IEC 62061 functional safety standard			
Product certifications	TÜV cULus			
IP degree of protection	IP54 (mounting area) conforming to EN/IEC 60947-1			

IP40 (housing) conforming to EN/IEC 60947-1	
IP20 (terminals) conforming to EN/IEC 60947-1	

Ambient air temperature for storage	-2585 °C
Relative humidity	595 % non-condensing

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.800 cm
Package 1 Width	14.000 cm
Package 1 Length	15.800 cm
Package 1 Weight	460.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.170 kg

# Offer Sustainability

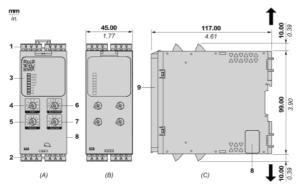
Sustainable offer status	Green Premium product				
REACh Regulation	REACh Declaration				
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration				
Mercury free	Yes				
China RoHS Regulation	China RoHS declaration				
RoHS exemption information	Yes				
Environmental 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				
PVC free	Yes				

Contractual warranty		
Warranty	18 months	

## **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): Start function selector

(5): Function selector

(6): Delay factor selector

(7): Delay base selector

(8): Connector for optional output extension module (lateral)

(9): Sealable transparent cover

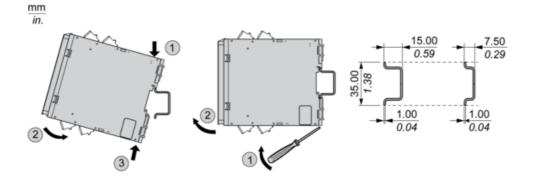
mm in.	0.47		₩ ₩			
	mm²	0,22,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	2412	2412	2416	2418	2016

# **Product datasheet**

# XPSUAT33A3AC

Mounting and Clearance

## Mounting to DIN rail



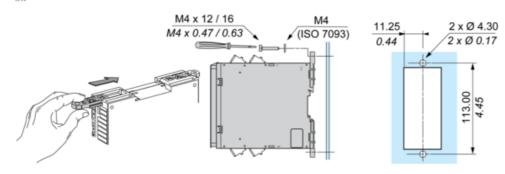
# **Product datasheet**

# XPSUAT33A3AC

Mounting and Clearance

### **Screw-mounting**

mm in

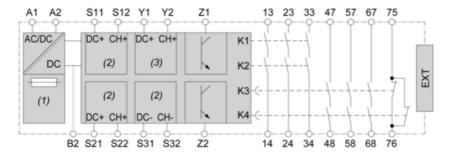


### **Product datasheet**

# XPSUAT33A3AC

Connections and Schema

#### Wiring Drawing



(1): A1-A2 (Power supply)

(2): S11-S12-S21-S22-S31-S32 (Single-channel safety input)

(3): Y1-Y2 (Start)

13-23-33-47-57-67-75-14-24-34-48-58-68-76 : Output

**EXT**: Connector for optional extension module

**B2**: Common ground terminal

Z1: Pulsed output for diagnostics, not safety-related

**Z2**: Solid state output, not safety-related

#### Recommended replacement(s)