



safety module, Harmony XPS, estop or guard, connected to supply terminals 48 to 240V AC or DC, no inputs, screw

XPSBAC34AP

Main

Range of product	t Harmony Safety Automation				
Product or component type	Safety module				
Safety module name	XPSBAC				
Safety module application	For emergency stop and protective guard applications				
Function of module	Emergency stop button with 2 NC contacts Guard monitoring with 1 or 2 limit switches				
Safety level	Can reach PL e/category 4 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 Can reach PL c/category 1 for normally closed relay contact ISO 13849-1 Can reach SILCL 1 for normally closed relay contact IEC 62061 Can reach SIL 1 for normally closed relay contact IEC 61508				
Safety reliability data	MTTFd > 30 years for normally open relay contact ISO 13849-1 Dcavg >= 99 % for normally open relay contact ISO 13849-1 PFHd = 1.01E-09 for normally open relay contact ISO 13849-1 HFT = 1 for normally open relay contact IEC 62061 PFHd = 1.01E-09 for normally open relay contact IEC 62061 SFF > 99% for normally open relay contact IEC 62061 HFT = 1 for normally open relay contact IEC 62061 HFT = 1 for normally open relay contact IEC 61508-1 PFHd = 1.01E-09 for normally open relay contact IEC 61508-1 SFF > 99% for normally open relay contact IEC 61508-1 Type = B for normally open relay contact IEC 61508-1 MTTFd > 30 years for normally closed relay contact ISO 13849-1 DC > 60 % for normally closed relay contact ISO 13849-1 PFHd = 1.01E-09 for normally closed relay contact ISO 13849-1 HFT=0 for normally closed relay contact IEC 62061 PFHd = 1.01E-09 for normally closed relay contact IEC 62061 HFT=0 for normally closed relay contact IEC 62061 HFT=0 for normally closed relay contact IEC 62061 FFHd = 1.01E-09 for normally closed relay contact IEC 62061 FFHd = 1.01E-09 for normally closed relay contact IEC 62061 FFHd = 1.01E-09 for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1 SFF > 60% for normally closed relay contact IEC 61508-1				
Electrical circuit type	NC pair				
Connections - terminals	Removable screw terminal block, 0.22.5 mm² solid or flexible Removable screw terminal block, 0.252.5 mm² flexible with ferrule single conductor Removable screw terminal block, 0.21.5 mm² solid or flexible twin conductor Removable screw terminal block, 2 x 0.251 mm² flexible with ferrule without cable end, with bezel Removable screw terminal block, 2 x 0.51.5 mm² flexible with ferrule with cable end, with bezel				
[Us] rated supply voltage	48240 V AC - 1510 % 48240 V DC - 2020 %				

Complementary

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Synchronisation time between inputs	Unlimited		
Type of start	Automatic/manual/monitored		
Power consumption in W	2.0 W 48 240 V DC		

5-Aug-2023 Life Is On Schneider 2

Power consumption in VA	6.0 VA 48240 V AC 50/60 Hz					
Input protection type	Internal, electronic					
Safety outputs	4 NO + 1 NC					
Safety inputs	0					
Input compatibility	Normally closed circuit ISO 14119 XC limit switch ISO 14119 Mechanical contact ISO 14119 Normally closed circuit ISO 13850					
Input terminal	Power supply					
[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	0					
[Ith] conventional free air thermal current	6 A					
Associated fuse rating	10 A gG NO relay output circuit IEC 60947-1					
Minimum output current	10 mA relay output					
Minimum output voltage	5 V relay output					
Response time	60 ms at 48240 V AC/DC					
[Ui] rated insulation voltage	300 V 2)EN/IEC 60947-1					
[Uimp] rated impulse withstand voltage	4 kV II EN/IEC 60947-1					
Local signalling	LED green power power ON LED red error error LED yellow state status LED yellow start1 start input LED yellow start2 start input					
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)					
Product weight	0.44 lb(US) (0.200 kg)					
Environment						
Ambient air temperature for operation	-13131 °F (-2555 °C)					
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	IP20 terminals)EN/IEC 60529 IP40 housing)EN/IEC 60529 IP54 mounting area)EN/IEC 60529					
Relative humidity	595 % non-condensing					

Packing Units

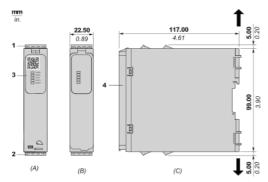
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	6.10 in (15.5 cm)
Package 1 Weight	10.76 oz (305.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	12.36 lb(US) (5.607 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				

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): Sealable transparent cover

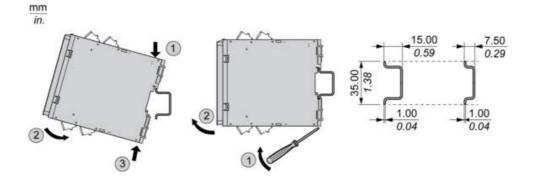
	0-8.0					- BD-
	mm²	0,2 2,5	0,252,5	0,21,5	0,251	0,51,5
	AWG	24 12	2412	2416	2418	2016
Ø 3,5 mm (0.14 in)		()c@		Nm	0.5 0.6	
				Ib-in	4,4 5,3	

Product data sheet

XPSBAC34AP

Mounting and Clearance

Mounting to DIN rail



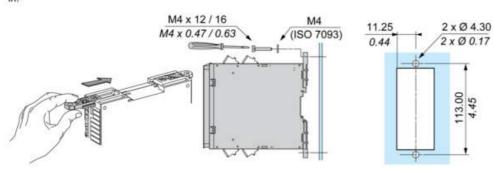
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Mounting and Clearance

Screw-mounting

mm in

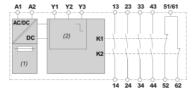


Product data sheet

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Connections and Schema

Wiring Diagram



(1): A1-A2 (Power supply)

(2): Y1 (Control output of Start/Restart input), Y2 (Input channel for automatic/manual start/restart), Y3 (Input channel for monitored start/restart with falling edge)

13-14-23-24-33-34-43-44-51/61-52-62: Terminals of the safety-related outputs

Recommended replacement(s)