Product datasheet Characteristics

ZB5AZ102

single contact block with body/fixing collar 1NC screw clamp terminal



Main

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Range of product	Harmony XB5	
Product or component type	Complete body/contact assembly	
Device short name	ZB5	
Fixing collar material	Plastic	
Sale per indivisible quantity	1	3
Head type	Standard	1
Contacts type and composition	1 NC	
Contact operation	Slow-break	4
Contact block type	Single	
Connections - terminals	Screw clamp terminals <= $2 \times 1.5 \text{ mm}^2$ with cable end EN 60947-1 Screw clamp terminals >= $1 \times 0.22 \text{ mm}^2$ without cable end EN 60947-1	

Complementary

Complementary				
CAD overall width	30 mm			
CAD overall height	42 mm	1		
CAD overall depth	32 mm			
Terminals description ISO n°1	(11-12)NC			
Product weight	0.021 kg			
Device composition	Body Fixing collar			
Contacts usage	Standard contacts			
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K			
Operating travel	1.5 mm (NC changing electrical state) 4.3 mm (total travel)			
Operating force	2 N (NC changing electrical state)			
Mechanical durability	1000000 cycles			
Tightening torque	0.81.2 N.m conforming to EN 60947-1			
Shape of screw head	Cross head compatible with Philips no 1 screwdriver Cross head compatible with pozidriv No 1 screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Slotted head compatible with flat Ø 5.5 mm screwdriver			
Contacts material	Silver alloy (Ag/Ni)			
	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1			

[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1			
[Ui] rated insulation voltage	600 V (degree of pollution: 3) conforming to EN 60947-1			
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 60947-1			
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1			
Electrical durability	100000 cycles, AC-15, 2 A at 230 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 3 A at 120 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 4 A at 24 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: <= 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C			
Electrical reliability	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4			

Environment

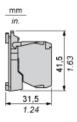
Protective treatment	TH
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4070 °C
IP degree of protection	IP20 conforming to IEC 60529
Standards	EN/IEC 60947-5-1 JIS C 4520 EN/IEC 60947-1 CSA C22.2 No 14 EN/IEC 60947-5-4 UL 508
Product certifications	UL BV LROS (Lloyds register of shipping) DNV CSA RINA GL
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

Contractual warranty

Warranty period

18 months

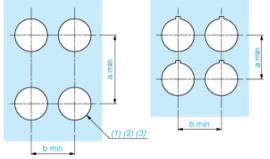
Dimensions



ZB5AZ102

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

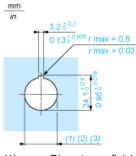
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) (3) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)

Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

Detail of Lug Recess



- (1) (2) (3) Diameter on finished panel or support
- For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. \emptyset 22.5 mm recommended (\emptyset 22.3 $_0^{+0.4}$) / \emptyset 0.89 in. recommended (\emptyset 0.88 in. $_0^{+0.016}$)