Product datasheet Characteristics

ZB5AZ104

single contact block with body/fixing collar 2NC screw clamp terminal



Main

Man			
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		
Contacts type and composition	2 NC		
Contacts operation	Slow-break		
Contact block type	Single		
Connections - terminals	Screw clamp terminals <= 2 x 1.5 mm² with cable end EN 60947-1 Screw clamp terminals >= 1 x 0.22 mm² without cable end EN 60947-1		

Complementary

Main		
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	
Contacts type and composition	2 NC	
Contacts operation	Slow-break	
Contact block type	Single	
Connections - terminals	Screw clamp terminals <= 2 x 1.5 mm ² with cable end EN 60947-1 Screw clamp terminals >= 1 x 0.22 mm ² without cable end EN 60947-1	
	Screw clamp terminals >= 1 x 0.22 mm² without cable end EN 60947-1	
	Screw clamp terminals >= 1 x 0.22 mm² without cable end EN 60947-1	
Complementary	Screw clamp terminals >= 1 x 0.22 mm² without cable end EN 60947-1	
	Screw clamp terminals >= 1 x 0.22 mm² without cable end EN 60947-1 30 mm	
CAD overall width		
	30 mm	
CAD overall height	30 mm 42 mm	
CAD overall width CAD overall height CAD overall depth	30 mm 42 mm 32 mm (11-12)NC Body	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition	30 mm 42 mm 32 mm (11-12)NC	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar Standard contacts	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition Contacts usage Positive opening	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar Standard contacts	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition Contacts usage Positive opening Operating travel	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar Standard contacts With positive opening conforming to EN/IEC 60947-5-1 appendix K 1.5 mm (NC changing electrical state)	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition Contacts usage Positive opening Operating travel Mechanical durability	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar Standard contacts With positive opening conforming to EN/IEC 60947-5-1 appendix K 1.5 mm (NC changing electrical state) 4.3 mm (total travel)	
CAD overall width CAD overall height CAD overall depth Terminals description ISO n°1 Device composition Contacts usage	30 mm 42 mm 32 mm (11-12)NC Body Fixing collar Standard contacts With positive opening conforming to EN/IEC 60947-5-1 appendix K 1.5 mm (NC changing electrical state) 4.3 mm (total travel) 5000000 cycles	

Short circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1			
[lth] 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	1000000 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, 0.5 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C			
Electrical reliability IEC 60947-5-4	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	-2570 °C
IP degree of protection	IP20 conforming to IEC 60529
Standards	CSA C22.2 No 14 EN/IEC 60947-5-4 UL 508 JIS C 4520 EN/IEC 60947-1 EN/IEC 60947-5-1
Product certifications	BV GL LROS (Lloyds register of shipping) RINA DNV CSA UL
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

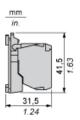
Contractual warranty

Contractadi Warranty	
Warranty period	18 months

Product datasheet Dimensions Drawings

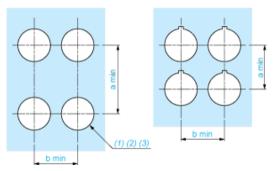
ZB5AZ104

Dimensions



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

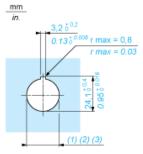
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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



- 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. $_0$ $^{+0.016}$)