Product datasheet

Specifications



Complete body/contact assembly, Harmony XB5, single contact, with body/fixing collar, plastic, screw clamp terminals, 1NC, set of 100

ZB5AZ102TQ

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	100			
Head type	Standard			
Contacts type and composition	1 NC			
Contact operation	Slow-break			
Contact block type	Single			
Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 6094 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1				

Complementary

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Terminals description ISO n°1	(11-12)NC	
Device composition	Body	
	Fixing collar	
Contacts usage	Standard contacts	
Positive opening	With conforming to 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 IEC 60947-1	
Shape of screw head	Cross compatible with Philips no 1 screwdriver	
	Cross compatible with pozidriv No 1 screwdriver	
	Slotted compatible with flat Ø 4 mm screwdriver	
	Slotted compatible with flat Ø 5.5 mm screwdriver	
Contacts material	Silver alloy (Ag/Ni)	
Short-circuit protection	10 A cartridge fuse type gG conforming to IEC 60947-5-1	
[Ith] conventional free air thermal current	I 10 A conforming to IEC 60947-5-1	
[Ui] rated insulation voltage	600 V (pollution degree 3) conforming to IEC 60947-1	
[Uimp] rated impulse withstand	6 kV conforming to IEC 60947-1	

voltage

[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to 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 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 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 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 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 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 IEC 60947-5-1 appendix C
Electrical reliability	Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4 Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4

Environment

Protective treatment	тн			
Ambient air temperature for storage	-4070 °C			
Ambient air temperature for operation	-4070 °C			
IP degree of protection	IP20 conforming to IEC 60529			
Standards	IEC 60947-5-1 UL 508 IEC 60947-1 CSA C22.2 No 14 JIS C8201-5-1 IEC 60947-5-4 JIS C8201-1			
Product certifications	LROS (Lloyds register of shipping) DNV BV 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			

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.400 cm
Package 1 Width	3.400 cm
Package 1 Length	4.400 cm
Package 1 Weight	14.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	100
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	1.830 kg

Contractual warranty

Warranty

18 months

🜔 Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

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Environmental Data explained >

How we assess product sustainability >

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)

Environmental Disclosure

Product Environmental Profile

Use Better

$^{\mbox{\footnotesize \ensuremath{\mathfrak{S}}}}$ Materials and Substances	
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration

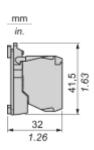
Use Again

$^{\circlearrowright}$ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product datasheet

Dimensions Drawings

Dimensions

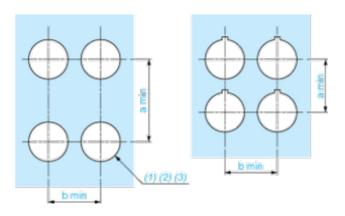


Product datasheet

Mounting and Clearance

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

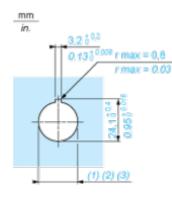


(1) Diameter on finished panel or support

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

5				0
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) Diameter on finished panel or support

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