



Main

Commercial Status	Commercialised
Range of product	Harmony XAL Harmony XAPS
Product or component type	Contact block
Device short name	ZENL
Product destination	For XB5 Ø 22 mm control and signalling units For XAPS control station
Mounting of block	Rear mounting
Sale per indivisible quantity	5
Contacts type and composition	1 NO

Complementary

Assembly style	For customer assembly
Product weight	0.015 kg
Contacts operation	Slow-break
Positive opening	Without
Operating travel	4.3 mm (total travel) 2.6 mm (NO changing electrical state)
Operating force	2.3 N (NO changing electrical state)
Operating torque	0.05 N.m (NO changing electrical state)
Connections - terminals	Screw clamp terminals $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 Screw clamp terminals $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1
Tightening torque	0.8...1.2 N.m conforming to EN 60947-1
Shape of screw head	Slotted, flat Ø 5.5 mm Slotted, flat Ø 4 mm Cross, pozidriv No 1 Cross, Philips no 1
Contacts material	Silver alloy (Ag/Ni)
Resistance across terminals	$\leq 25 \text{ MOhm}$
Short circuit protection	10 A cartridge fuse, gG conforming to EN/IEC 60947-5-1
[I _{th}] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1
[U _i] rated insulation voltage	600 V, degree of pollution: 3 conforming to EN/IEC 60947-1
[U _{imp}] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
[I _e] rated operational current	1.2 A at 600 V AC-15, A600 conforming to EN/IEC 60947-5-1 0.55 A at 125 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 0.1 A at 600 V DC-13, Q600 conforming to EN/IEC 60947-5-1 6 A at 120 V AC-15, A600 conforming to EN/IEC 60947-5-1 3 A at 240 V AC-15, A600 conforming to EN/IEC 60947-5-1
Electrical durability	1000000 cycles DC-13 at 0.5 A 24 V at 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles DC-13 at 0.2 A 110 V at 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles AC-15 at 4 A 24 V at 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles AC-15 at 3 A 120 V at 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles AC-15 at 2 A 230 V at 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C

Electrical reliability IEC 60947-5-4	$\Lambda < 10\text{exp}(-6)$ at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\text{exp}(-8)$ at 17 V and 5 mA conforming to EN/IEC 60947-5-4
Additional information	Mounting on integrated plate in the box
Electrical composition code	MR1 (quantity ≤ 2) SR2 (quantity ≤ 2) SR1 (quantity ≤ 3)

Environment

Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
IP degree of protection	IP20 conforming to IEC 60529
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14
Vibration resistance	5 gn (f = 12...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (11 ms half sine wave acceleration) conforming to IEC 60068-2-27 30 gn (18 ms half sine wave acceleration) conforming to IEC 60068-2-27