

Product data sheet

Characteristics

ZBE102N

Single contact block, Harmony XB5N XB7N, silver alloy, screw clamp terminal, 1 NC



Main

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| Range of product | Harmony XB5N/XB7N |
| Product or component type | Contact block with protected terminals |
| Device short name | ZBE |
| Sale per indivisible quantity | 20 |
| Contact block type | Single |

Complementary

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| Fixing collar material | Plastic |
| Terminals description ISO n°1 | (11-12)NC |
| Net weight | 0.011 kg |
| Contacts type and composition | 1 NC |
| Contact operation | Slow-break |
| Contacts usage | Standard contacts |
| Positive opening | With conforming to IEC 60947-5-1 appendix K |
| Operating travel | 2.6 Mm (NC changing electrical state) 4.3 mm (total travel) |
| Operating force | 3.5 N NC changing electrical state |
| Operating torque | 0.14 N.m |
| Torque value | 0.14 N.m |
| Mechanical durability | 5000000 cycles |
| Connections - terminals | Screw clamp terminal, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to IEC 60947-1 Screw clamp terminal, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to IEC 60947-1 |
| Tightening torque | 0.8...1.2 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 $\varnothing 4 \text{ mm}$ screwdriver Slotted compatible with flat $\varnothing 5.5 \text{ mm}$ screwdriver |
| Contacts material | Silver alloy (Ag/Ni) |
| Short-circuit protection | 10 A cartridge fuse type gG conforming to IEC 60947-5-1 |
| [I _{th}] conventional free air thermal current | 10 A conforming to IEC 60947-5-1 |
| [U _i] rated insulation voltage | 600 V (pollution degree 3) conforming to IEC 60947-1 |
| [U _{imp}] rated impulse withstand voltage | 6 kV conforming to IEC 60947-1 |
| [I _e] 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 |

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| 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, AC-15, 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 | $\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4 $\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4 |

Environment

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| Protective treatment | Standard version |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -25...70 °C |
| Standards | IEC 60947-5-4 IEC 60947-1 IEC 60947-5-1 IS 13947-5-1 |
| Product certifications | CE |
| Vibration resistance | 5 gn (f= 2...500 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

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|------------------------------|--------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.0 cm |
| Package 1 Width | 2.8 cm |
| Package 1 Length | 3.2 cm |
| Package 1 Weight | 11.0 g |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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