

Product datasheet

Specifications



III selector switch, Harmony XB5N
XB7N, plastic, red, 22mm, short
handle, 3 pos, spring return middle,
24V AC DC, 1NO 1NC

XB5AK154B5N

Main

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| Range Of Product | Harmony XB5N/XB7N |
| Product Or Component Type | Illuminated selector switch |
| Device Short Name | XB5N |
| Bezel Material | Dark grey plastic |
| Fixing Collar Material | Plastic |
| Head Type | Standard |
| Mounting Diameter | 22.5 mm |
| Sale Per Indivisible Quantity | 20 |
| Shape Of Signaling Unit Head | Round |
| Type Of Operator | To centre 3 spring return |
| Operator Profile | Red standard handle (white) |
| Operator Position Information | 3 positions +/- 45° |
| Contacts Type And Composition | 1 NO + 1 NC |
| Contact Operation | Slow-break |
| Connections - Terminals | Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 |
| [Us] Rated Supply Voltage | 24 V AC/DC 50/60 Hz |

Complementary

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| Height | 42 mm |
| Width | 30 mm |
| Depth | 70 mm |
| Terminals Description Iso N°1 | (13-14)NO (23-24)NO |
| Net Weight | 0.058 kg |
| Device Mounting | Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to IEC 60947-5-1 |
| Fixing Mode | Fixing nut recommended torque: 2.2 N.m (+/- 0.2 N.m) |
| Contacts Usage | Standard contacts |
| Positive Opening | With conforming to IEC 60947-5-1 appendix K |
| Torque Value | 0.14 N.m NO changing electrical state |
| Mechanical Durability | 10000000 cycles |
| Tightening Torque | 0.8...1.2 N.m conforming to IEC 60947-1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| 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 | 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 Voltage | 6 kV conforming to IEC 60947-1 |
| [Ie] 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, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1 appendix C |
| Electrical Reliability | $\Lambda < 10\text{exp}(-6)$ at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4 $\Lambda < 10\text{exp}(-8)$ at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4 |
| Supply Voltage Limits | 19.2...30 V DC 21.6...26.4 V AC |
| Current Consumption | 18 mA |
| Service Life | 100000 h at rated voltage and 25 °C |
| Surge Withstand | 1 kV conforming to IEC 61000-4-5 |
| Device Presentation | Complete product |
| Light Source Colour | Red |
| Overvoltage Category | Class II conforming to IEC 60536 |
| Product Compatibility | ZB5...N |
| Light Block Supply | Direct |

Environment

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| Protective Treatment | TH |
| Ambient Air Temperature For Storage | -40...70 °C |
| Ambient Air Temperature For Operation | -25...70 °C |
| Electrical Shock Protection Class | Class II conforming to IEC 60536 |
| Ip Degree Of Protection | IP69K conforming to IEC 60529 |
| Ik Degree Of Protection | IK04 conforming to IEC 50102 |
| 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 |

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| 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 |
| Resistance To Fast Transients | 2 kV conforming to IEC 61000-4-4 |
| Resistance To Electromagnetic Fields | 10 V/m conforming to IEC 61000-4-3 |
| Resistance To Electrostatic Discharge | 6 kV on contact (on metal parts) conforming to IEC 61000-4-2 8 kV in free air (in insulating parts) conforming to IEC 61000-4-2 |
| Electromagnetic Emission | Class B conforming to IEC 55011 |

Packing Units

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 8.6 cm |
| Package 1 Width | 3.3 cm |
| Package 1 Length | 5.2 cm |
| Package 1 Weight | 147.0 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 240 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |

Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Well-being performance

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|  Mercury Free | |
|  Rohs Exemption Information | Yes |
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |