Product datasheet

Specifications





Illuminated push button, Harmony XB7, ILLUM. P.B, LED, Latch -1 NO, Clear, 230 V

XB7NJ07M1

() Discontinued on: 20-Oct-2020

(!) End-of-service on: 11-Jul-2022

Main

| Range Of Product | Harmony XB7 |
|---------------------------------|--|
| Product Or Component Type | Illuminated push-button |
| Device Short Name | XB7 |
| Mounting Diamete | 22 mm |
| Sale Per Indivisible Quantity | 10 |
| Ip Degree Of Protection | IP20 (rear face) conforming to IEC 60529 IP65 (front face) conforming to IEC 60529 |
| Shape Of Signaling Unit Head | Round |
| Type Of Operator | push and push-to-release |
| Operator Profile | Clear projecting, unmarked |
| Operator Additional Information | With plain lens |
| Contacts Type And Composition | 1 NO |
| Connections - Terminals | Screw clamp terminals, <= 2 x 1.5 mm ² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, 1 x 0.342 x 2.5 mm ² without cable end conforming to EN/ IEC 60947-1 |
| Light Source | LED |
| Bulb Base | Integral LED |
| [Us] Rated Supply Voltage | 230 V AC at 50/60 Hz |
| Device Presentation | Monolithic product |

Complementary

| Cad Overall Width | 29 mm |
|-------------------------------|--|
| Cad Overall Height | 29 mm |
| Cad Overall Depth | 57.5 mm |
| Terminals Description Iso N°1 | (13-14)NO |
| Net Weight | 0.023 kg |
| Device Mounting | Fixing hole - diameter: 22.5 mm 22.3 +0.4/0 conforming to EN/IEC 60947-1 |
| Fixing Center | >= 30 x 40 mm (support panel) metal - thickness: 16 mm >= 30 x 40 mm (support panel) plastic - thickness: 26 mm |
| Fixing Mode | Fixing nut beneath head: 22.4 N.m |
| Contact Operation | Slow-break |

| Positive Opening | With (only NO) |
|---|--|
| Mechanical Durability | 300000 cycles |
| Tightening Torque | 0.81.2 N.m conforming to EN 60947-1 |
| Shape Of Screw Head | Cross compatible with JIS No 1 screwdriver 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 |
| Short-Circuit Protection | 4 A cartridge fuse type gG conforming to EN/IEC 60947-5-1 |
| [Ui] Rated Insulation Voltage | 250 V (pollution degree 3) conforming to EN/IEC 60947-1 |
| [Uimp] Rated Impulse Withstand Voltage | 4 kV conforming to EN/IEC 60947-1 |
| [Ie] Rated Operational Current | 0.1 A at 250 V, DC-13, R300 conforming to EN/IEC 60947-5-1 0.22 A at 125 V, DC-13, R300 conforming to EN/IEC 60947-5-1 0.3 A at 240 V, AC-14, D300 conforming to EN/IEC 60947-5-1 0.6 A at 120 V, AC-14, D300 conforming to EN/IEC 60947-5-1 |
| Electrical Durability | 1000000 cycles, DC-13, 0.3 A at 24 V, operating rate <216000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 0.03 A at 230 V, operating rate <216000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 0.09 A at 240 V, operating rate <108000 cyc/mn, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C |
| Electrical Reliability | $\Lambda \leq 10 \exp(-6)$ at 17 V and 5 mA conforming to EN/IEC 60947-5-4 |
| Signalling Type | Steady |
| Supply Voltage Limits | 195264 V AC |
| Current Consumption | 2227 mA |
| Service Life | 70000 h at rated voltage and 25 °C |

Environment

| Protective Treatment | тн |
|--|---|
| Ambient Air Temperature For Storage | -4070 °C |
| Ambient Air Temperature For Operation | -2570 °C |
| Electrical Shock Protection Class | Class II conforming to IEC 61140 |
| Nema Degree Of Protection | NEMA 12 conforming to UL 50 E |
| Standards | CSA C22.2 No 14 EN/IEC 60947-1 UL 508 JIS C8201-5-1 EN/IEC 60947-5-1 JIS C8201-1 |
| Product Certifications | CCC GOST |
| Vibration Resistance | 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 |
| Shock Resistance | 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration |
| Electromagnetic Emission | Class B conforming to EN 55011 |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

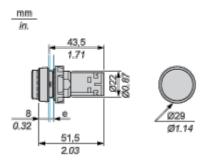
Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile | End of Life Information |

Dimensions Drawings

Illuminated Pushbutton

Dimensions



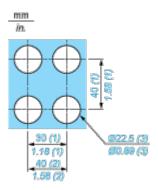
e Support panel thickness: 1 to 6 mm/0.4 to 0.24 in. (metal), 2 to 6 mm/0.8 to 0.24 in. (plastic).

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Mounting and Clearance

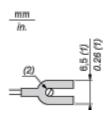
Mounting

Diameter of Finished Fixing Holes



- (1) Minimum value.
- (2) 40 mm/1.58 in. for Emergency switching off pushbutton only.
- (3) Standard value: Ø 22.3 (0; + 0.4) mm/Ø 0.88 (0; + 0.02) in.

"U" Type Tag Connection



- (1) 6.5 mm/0.26 in. recommended, 7 mm/0.28 in. max.
- (2) M3 screw clamp terminal.

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Connections and Schema

Wiring

