

# Product Datasheet

## Characteristic

# XB5AD53

Selector switch, Harmony XB5, plastic, black, 22mm, 3 positions, spring return to center, 2 NO



## Main

|                               |                                                                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Harmony XB5                                                                                                                                                          |
| product or component type     | Selector switch                                                                                                                                                      |
| Device short name             | XB5                                                                                                                                                                  |
| Bezel material                | Dark grey plastic                                                                                                                                                    |
| Head type                     | Standard                                                                                                                                                             |
| Mounting diameter             | 22.5 mm                                                                                                                                                              |
| Sale per indivisible quantity | 1                                                                                                                                                                    |
| Shape of signaling unit head  | Round                                                                                                                                                                |
| Type of operator              | To centre spring return                                                                                                                                              |
| Operator profile              | Black standard handle                                                                                                                                                |
| Operator position information | 3 positions +/- 45°                                                                                                                                                  |
| Contacts type and composition | 2 NO                                                                                                                                                                 |
| Contact operation             | Slow-break                                                                                                                                                           |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to IEC 60947-1 |

## Complementary

|                                    |                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                             | 42 mm                                                                                                                                                |
| Width                              | 30 mm                                                                                                                                                |
| Depth                              | 70 mm                                                                                                                                                |
| Terminals description ISO n°1      | (13-14)NO                                                                                                                                            |
| net weight                         | 0.052 kg                                                                                                                                             |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m                                                                                                                |
| Contacts usage                     | Standard contacts                                                                                                                                    |
| Positive opening                   | Without                                                                                                                                              |
| Torque value                       | 0.14 N.m NO changing electrical state                                                                                                                |
| Mechanical durability              | 1000000 cycles                                                                                                                                       |
| Tightening torque                  | 0.8...1.2 N.m conforming to IEC 60947-1                                                                                                              |
| Shape of screw head                | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [I <sub>e</sub> ] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1<br>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<br>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<br>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<br>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<br>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                                   | $\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| device presentation                                      | Complete product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| protective treatment                  | TH                                                                                                                                                                             |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                    |
| Ambient air temperature for operation | -40...70 °C                                                                                                                                                                    |
| Electrical shock protection class     | Class II conforming to IEC 60536                                                                                                                                               |
| IP degree of protection               | IP67 conforming to IEC 60529<br>IP69<br>IP69K                                                                                                                                  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                             |
| IK degree of protection               | IK04 conforming to IEC 50102                                                                                                                                                   |
| Standards                             | IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>IEC 60947-1<br>JIS C8201-5-1<br>JIS C8201-1                                                                     |
| Product certifications                | GL<br>UL<br>LROS (Lloyds register of shipping)<br>BV<br>DNV<br>CSA                                                                                                             |
| 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<br>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             | 3.400 cm |
| Package 1 Width              | 5.300 cm |
| Package 1 Length             | 8.800 cm |
| Package 1 Weight             | 52.000 g |

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 150       |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 8.295 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 1200      |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |
| Package 3 Length             | 80.000 cm |
| Package 3 Weight             | 75.644 kg |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | Free of Substances of Very High Concern above the threshold                                                                 |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| Toxic heavy metal free     | Yes                                                                                                                         |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | X                                                                                                                           |
| RoHS exemption information | Yes                                                                                                                         |
| Environmental Disclosure   | ENVPEP2308008EN                                                                                                             |
| Circularity Profile        | ENVEOLI2308008EN                                                                                                            |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |