# Product data sheet
## Characteristics

# ZB2BE102C
Single contact block, Harmony XB2, screw clamp terminal, 1NC



## Main

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|---|---|
| Range of product | Harmony XB2 |
| Product or component type | Complete body/contact assembly |
| Component name | ZB2 |
| Electrical circuit type | Control circuit |
| Contact block application | Single speed |
| Contact block type | Single |
| Product compatibility | ZB2..C |
| Contacts type and composition | 1 NC |
| Mounting of block | Front mounting |
| Sale per indivisible quantity | 1 |
| Device short name | XB2 |
| Device presentation | Basic element |
| Body type | Body for control button |
| Contact operation | Slow-break |

## Complementary

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|---|---|
| Mechanical durability | 3000000 Cycles |
| Contact code designation | A600 AC-15, Ue = 240 V, Ie = 3 A conforming to IEC 947-5-1 appendix A<br>A600 AC-15, Ue = 600 V, Ie = 1.2 A conforming to IEC 947-5-1 appendix A<br>Q600 DC-13, Ue = 250 V, Ie = 0.27 A conforming to IEC 947-5-1 appendix A<br>Q600 DC-13, Ue = 600 V, Ie = 0.1 A conforming to IEC 947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 10 A |
| [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 |
| Maximum resistance across terminals | 25 MOhm |
| Operating force | 3…5 N |
| Short-circuit protection | 10 A fuse protection by cartridge fuse type gG (gl) |
| Rated operational power in W | 40 W DC-13 for 1000000 cycles, operating rate <3600 cyc/h at 120 V, load factor = 0.5 conform<br>48 W DC-13 for 1000000 cycles, operating rate <3600 cyc/h at 48 V, load factor = 0.5 conform<br>65 W DC-13 for 1000000 cycles, operating rate <3600 cyc/h at 24 V, load factor = 0.5 conform |
| Terminals description ISO n°1 | (11-12)NC |
| Net weight | 0.015 Kg |
| Height | 29 Mm |
| Width | 15 Mm |
| Depth | 24 Mm |
| Connections - terminals | Screw clamps terminals |
| Fixing collar material | Zamak |
| Connections - terminals | Screw clamps terminals, 1 x 2.5 mm² with or without cable end<br>Screw clamps terminals, 2 x 1.5 mm² with or without cable end |

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|---|---|
| Contacts material | Silver alloy (Ag/Ni) |
| Contacts usage | Standard contacts |
| Connections - terminals | Screw clamp terminal, <= 2 x 1.5 mm² with and without cable ends<br>Screw clamp terminal, <= 1 x 2.5 mm² with and without cable ends<br>Screw clamp terminal, >= 1 x 0.5 mm² with and without cable ends<br>Faston terminals, connection size: 6.3 mm |
| Electrical durability | 1000000 Cycles, AC-15, 3 A at 240 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IE<br>1000000 Cycles, DC-13, 0.27 A at 250 V, operating rate <3600 cyc/h, load factor: 0.5 conforming |
| Electrical reliability | Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4<br>Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4 |
| [Ie] rated operational current | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1 |
| Short-circuit protection | 10 A gL fuse type gG conforming to IEC 60947-5-1 |
| [Ith] conventional free air thermal current | 10 A conforming to IEC 60947-5-1 |
| Positive opening | With conforming to IEC 60947-5-1 appendix K |
| Operating travel | 1.5 Mm (NO changing electrical state)<br>5 Mm (total travel) |
| 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<br>Slotted compatible with flat Ø 5.5 mm screwdriver |
| Protective treatment | TC/TH |
| Customizable | No |
| 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 |
| Tightening torque | 0.8…1.0 N.M |
| Fixing mode | Fixing screw beneath head recommended torque: 0.8 N.m<br>Fixing screw beneath head recommended torque: 1.0 N.m |

## Environment

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| Ambient air temperature for operation | -25…70 °C |
| Ambient air temperature for storage | -40…70 °C |
| Vibration resistance | 5 gn (f= 2…500 Hz) conforming to IEC 60068-2-6 |
| Electrical shock protection class | Class II conforming to IEC 61140 |
| Product certifications | CE[RETURN]CCC |
| Standards | IEC 60947-1<br>IEC 60947-5-1<br>IEC 60947-5-4<br>GB/T 14048.1<br>GB/T 14048.5 |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.500 Cm |
| Package 1 Width | 2.790 Cm |
| Package 1 Length | 2.870 Cm |
| Package 1 Weight | 16.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 150 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 2.543 Kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 2400 |
| Package 3 Height | 75.000 Cm |
| Package 3 Width | 60.000 Cm |
| Package 3 Length | 80.000 Cm |
| Package 3 Weight | 49.188 Kg |

## Offer Sustainability

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| Recyclability potential, in % | 65 |
| Total lifecycle Carbon footprint | 0.6 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.1835953557 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.2 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.0054125939 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.0014726378 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 0.3441149068 |
| REACh free of SVHC | Yes |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 0.3 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.0362733696 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 1 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| SCIP Number | 9e63340a-2371-4381-8f9a-5fba0ff349a4 |
| REACh Regulation | Free of Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi |
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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| Warranty (in months) | 18 |

Product Life Status : Commercialised