

# Product datasheet

Specifications



## Single contact block with body/fixing collar, plastic, screw clamp terminal, 2 NO

Local distributor code:  
237160360

ZB5AZ103

**EAN Code: 3389110924435**

### Main

|                               |  |
|-------------------------------|--|
| Range of product              | Harmony XB5  |
| Product or component type     | Complete body/contact assembly   |
| Device short name             | ZB5  |
| Fixing collar material        | Plastic  |
| Sale per indivisible quantity | 1  |
| Head type                     | Standard   |
| Contacts type and composition | 2 NO   |
| Contact operation             | Slow-break   |
| Contact block type            | Single   |
| Connections - terminals       | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to IEC 60947-1<br>Screw clamp terminals, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end conforming to IEC 60947-1 |

### Complementary

|   |   |
|---|---|
| CAD overall width                           | 30 mm   |
| CAD overall height                          | 42 mm   |
| CAD overall depth                           | 32 mm   |
| Terminals description ISO n°1               | (13-14)NO   |
| Device composition                          | Fixing collar<br>Body   |
| Contacts usage                              | Standard contacts   |
| Positive opening                            | Without   |
| Operating travel                            | 2.6 mm (NO changing electrical state)<br>4.3 mm (total travel)  |
| Mechanical durability                       | 10000000 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 $\varnothing 4 \text{ mm}$ screwdriver<br>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   |
| [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  |

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

|   |  |
|---|--|
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV conforming to IEC 60947-1   |
| <b>[Ie] rated operational current</b>         | 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   |
| <b>Electrical durability</b>                  | 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 |
| <b>Electrical reliability</b>                 | $\Lambda < 10\text{exp}(-6)$ at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4  |
| <b>Device presentation</b>                    | Basic sub-assemblies   |

## Environment

|  |  |
|--|--|
| <b>Protective treatment</b>                  | TH   |
| <b>Ambient air temperature for storage</b>   | -40...70 °C  |
| <b>Ambient air temperature for operation</b> | -40...70 °C  |
| <b>IP degree of protection</b>               | IP20 conforming to IEC 60529   |
| <b>Standards</b>                             | UL 508<br>IEC 60947-1<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>IEC 60947-5-1<br>JIS C8201-5-1<br>JIS C8201-1   |
| <b>Product certifications</b>                | BV<br>UL<br>CSA<br>DNV<br>LROS (Lloyds register of shipping)   |
| <b>Vibration resistance</b>                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6   |
| <b>Shock resistance</b>                      | 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

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 4.500 cm  |
| <b>Package 1 Width</b>              | 3.400 cm  |
| <b>Package 1 Length</b>             | 5.400 cm  |
| <b>Package 1 Weight</b>             | 29.000 g  |
| <b>Unit Type of Package 2</b>       | S03       |
| <b>Number of Units in Package 2</b> | 300       |
| <b>Package 2 Height</b>             | 30.000 cm |
| <b>Package 2 Width</b>              | 30.000 cm |

|                              |           |
|------------------------------|-----------|
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 9.260 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             | 85.052 kg |

## Logistical informations

Country of origin FR

## Contractual warranty

Warranty 18 months



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 1

Environmental Disclosure [Product Environmental Profile](#)

### Use Better

#### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic Yes

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

### Use Again

#### Repack and remanufacture

Recyclability potential, in % 29

End of life manual availability [End of Life Information](#)

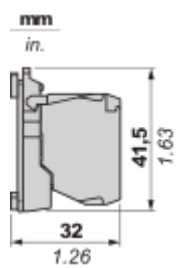
Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

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Mounting and Clearance

**Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)**

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3_0^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88_0^{+0.016}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|---|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

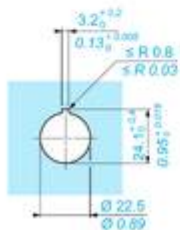
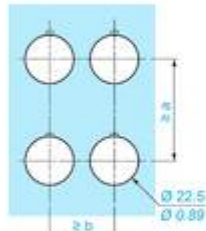
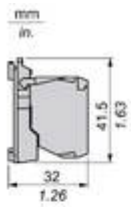
Detail of Lug Recess



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3_0^{+0.4}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88_0^{+0.016}$ )

Technical Illustration

Dimensions



|           |           | a (mm) | a (in.) | b (mm) | b (in.) |
|-----------|-----------|--------|---------|--------|---------|
| ZBE.....  | ZBV.....  | 40     | 1.57    | 30     | 1.18    |
| ZBE.....3 | ZBV.....3 | 45     | 1.77    | 32     | 1.26    |
| ZBE.....4 | ZBV.....4 | 40     | 1.57    | 30     | 1.18    |
| ZBE.....5 | ZBV.....5 | 50     | 1.97    | 30     | 1.18    |
| ZBE.....9 | ZBV.....9 | 40     | 1.57    | 30     | 1.18    |
| ZBRT•     | ZBRV1     | 40     | 1.57    | 30     | 1.18    |

Offer Marketing Illustration

Product benefits / Features

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### Features Harmony XB5



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Quick and easy assembly and disassembly
- 

Excellent mechanical connection with operator head
- 

Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board
- 

Large set of accessories to customize your panels
- 

Robustness to withstand harsh environments

Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony XB5



Image of product / Alternate images

Alternative

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