



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Harmony XB4<br>Harmony XB5   |
| Product or component type     | Contact block  |
| Device short name             | ZBE  |
| Sale per indivisible quantity | 5  |
| IP degree of protection       | IP20 IEC 60529   |
| Contacts type and composition | 1 NO   |
| Contact operation             | Slow-break   |
| Contact block type            | Single   |
| Contacts usage                | Standard contacts  |
| Connections - terminals       | Screw clamp terminals $\leq 2 \times 1.5 \text{ mm}^2$ with cable end EN 60947-1<br>Screw clamp terminals $\geq 1 \times 0.22 \text{ mm}^2$ without cable end EN 60947-1 |

## Complementary

|   |  |
|---|--|
| Product weight                              | 0.011 kg   |
| Positive opening                            | Without  |
| Operating travel                            | 2.6 mm NO changing electrical state<br>4.3 mm total travel   |
| Operating force                             | 2.3 N NO changing electrical state   |
| Mechanical durability                       | 10000000 cycles  |
| Tightening torque                           | 0.8...1.2 N.m EN 60947-1   |
| Shape of screw head                         | Cross Philips no 1<br>Cross pozidriv No 1<br>Slotted flat Ø 4 mm<br>Slotted flat Ø 5.5 mm                                      |
| Contacts material                           | Silver alloy (Ag/Ni)   |
| Short-circuit protection                    | 10 A cartridge fuse gG EN/IEC 60947-5-1  |
| [Ith] conventional free air thermal current | 10 A EN/IEC 60947-5-1  |
| [Ui] rated insulation voltage               | 600 V 3 EN 60947-1   |
| [Uimp] rated impulse withstand voltage      | 6 kV EN 60947-1  |
| [Ie] rated operational current              | 1.2 A 600 V AC-15 A600 EN/IEC 60947-5-1<br>0.27 A 250 V DC-13 Q600 EN/IEC 60947-5-1<br>0.1 A 600 V DC-13 Q600 EN/IEC 60947-5-1 |

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

3 A 240 V AC-15 A600 EN/IEC 60947-5-1  
 0.55 A 125 V DC-13 Q600 EN/IEC 60947-5-1  
 6 A 120 V AC-15 A600 EN/IEC 60947-5-1

|                             |   |
|-----------------------------|---|
| Electrical durability       | 1000000 cycles AC-15 2 A 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles DC-13 0.2 A 110 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles AC-15 3 A 120 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles AC-15 4 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles DC-13 0.5 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| Electrical reliability      | $\Lambda < 10\exp(-7)$ 1 mA in clean environment EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 5 mA in clean environment EN/IEC 60947-5-4  |
| Mounting of block           | Front mounting  |
| Condition of use            | Mounting on push-button collar  |
| Electrical composition code | C1 ≤ 9<br>C2 ≤ 7<br>C3 ≤ 6<br>C4 ≤ 4<br>C5 ≤ 5<br>C6 ≤ 3<br>C7 ≤ 4<br>C8 ≤ 2<br>C9 ≤ 3<br>C12 ≤ 6<br>M1 ≤ 6<br>M2 ≤ 4<br>M3 ≤ 4<br>M5 ≤ 2<br>M6 ≤ 2<br>M7 ≤ 6<br>M8 ≤ 4<br>M9 ≤ 2<br>SF1 ≤ 3<br>SF2 ≤ 2<br>MF1 ≤ 2<br>MF2 ≤ 2<br>C10 ≤ 2<br>M4 ≤ 2<br>C13 ≤ 1   |
| Compatibility code          | ZBE   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Protective treatment                  | TH   |
| Ambient air temperature for storage   | -40...70 °C  |
| Ambient air temperature for operation | -40...70 °C  |
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>JIS C 4520<br>UL 508<br>CSA C22.2 No 14                |
| Product certifications                | BV<br>CCC<br>CSA<br>DNV<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>RINA<br>UL                        |
| Vibration resistance                  | 5 gn 2...500 Hz IEC 60068-2-6  |
| Shock resistance                      | 30 gn 18 ms half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms half sine wave acceleration IEC 60068-2-27 |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|