



## Main

|  |                                  |
|--|----------------------------------|
| Range of Product                             | Harmony Electromechanical Relays |
| Series name                                  | Interface relay                  |
| Product or Component Type                    | Plug-in relay                    |
| Device short name                            | RSB                              |
| Contacts type and composition                | 1 C/O                            |
| Contact operation                            | Standard                         |
| [Uc] control circuit voltage                 | 48 V DC                          |
| [Ithe] conventional enclosed thermal current | 16 A -40...104 °F (-40...40 °C)  |
| Status LED                                   | Without                          |
| Control Type                                 | Without push-button              |

## Complementary

|  |   |
|--|---|
| Shape of pin                           | Flat (PCB type)   |
| Average coil resistance                | 5520 Ohm AC 20 °C +/- 10 %  |
| [Ue] rated operational voltage         | 33.6...72 V DC  |
| [Ui] rated insulation voltage          | 400 V EN/IEC 60947  |
| [Uimp] rated impulse withstand voltage | 3.6 kV IEC 61000-4-5  |
| Contacts material                      | Silver alloy (AgNi)   |
| [Ie] rated operational current         | 16 A AC-1/DC-1) NO IEC<br>8 A AC-1/DC-1) NC IEC                               |
| Minimum switching current              | 10 mA   |
| Maximum switching voltage              | 300 V DC IEC  |
| Minimum switching voltage              | 12 V  |
| Maximum switching capacity             | 4000 VA/448 W   |
| Resistive rated load                   | 16 A 250 V AC<br>16 A 28 V DC   |
| Minimum switching capacity             | 120 mW 10 mA, 12 V  |
| Operating rate                         | <= 600 cycles/hour under load<br><= 18000 cycles/hour no-load                 |
| Mechanical durability                  | 30000000 cycles   |
| Electrical durability                  | 100000 Cycles, 16 A at 250 V, AC-1 NO<br>100000 cycles, 8 A at 250 V, AC-1 NC |
| Operating time                         | 20 ms operating<br>20 ms reset  |
| Average coil consumption               | 0.45 W DC   |
| Drop-out voltage threshold             | >= 0.1 Uc DC  |
| Safety reliability data                | B10d = 100000   |
| Protection category                    | RT I  |
| Test levels                            | Level A   |
| Operating position                     | Any position  |
| Net Weight                             | 0.03 lb(US) (0.014 kg)  |
| Sale per indivisible quantity          | 10  |
| Device presentation                    | Complete product  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Dielectric strength                   | 1000 V AC between contacts<br>2500 V AC between poles<br>5000 V AC between coil and contact |
| Standards                             | UL 508<br>EN/IEC 61810-1<br>CSA C22.2 No 14   |
| Product Certifications                | EAC<br>UL<br>CSA  |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)  |
| Vibration resistance                  | +/- 1 mm 10...55 Hz)EN/IEC 60068-2-6  |
| IP degree of protection               | IP40 conforming to EN/IEC 60529   |
| Shock resistance                      | 10 gn 11 ms) not operating EN/IEC 60068-2-27<br>5 gn 11 ms) in operation EN/IEC 60068-2-27  |
| Ambient air temperature for operation | -40...185 °F (-40...85 °C) DC)  |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 3389110254471                 |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 0.53 oz (15 g)                |
| Returnability         | No                            |
| Country of origin     | AT                            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 0.67 in (1.7 cm)        |
| Package 1 width              | 0.98 in (2.5 cm)        |
| Package 1 Length             | 11.81 in (30 cm)        |
| Unit Type of Package 2       | BB1                     |
| Number of Units in Package 2 | 10                      |
| Package 2 Weight             | 5.71 oz (162 g)         |
| Package 2 Height             | 0.71 in (1.8 cm)        |
| Package 2 width              | 1.02 in (2.6 cm)        |
| Package 2 Length             | 12.20 in (31 cm)        |
| Unit Type of Package 3       | S01                     |
| Number of Units in Package 3 | 350                     |
| Package 3 Weight             | 12.38 lb(US) (5.615 kg) |
| Package 3 Height             | 5.91 in (15 cm)         |
| Package 3 width              | 5.91 in (15 cm)         |
| Package 3 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| California proposition 65  | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>   |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#">Yes</a>  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |

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|                          |  |
|--------------------------|--|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>  |
| WEEE                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

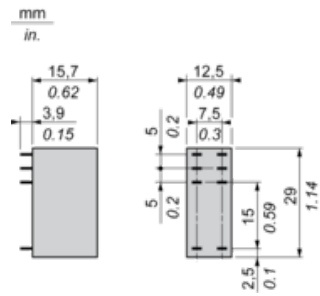
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**Contractual warranty**

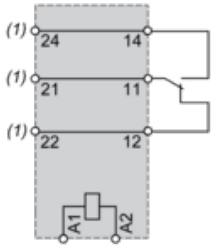
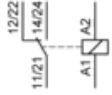
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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Dimensions



Wiring Diagram



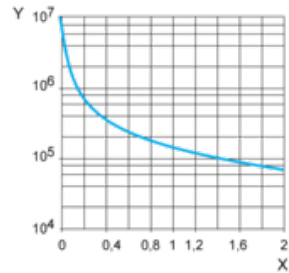
(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

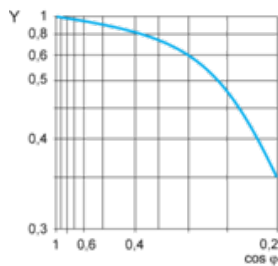
Resistive AC load



X Switching capacity (kVA)

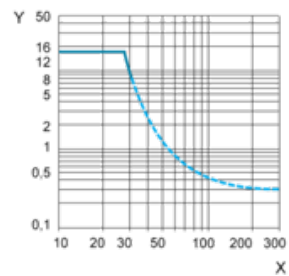
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor  $\cos \phi$ )



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.