



Main

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| 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 | 12 V DC |
| [Ithe] conventional enclosed thermal current | 16 A -40...104 °F (-40...40 °C) |
| Status LED | Without |
| Control Type | Without push-button |

Complementary

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| Shape of pin | Flat |
| Average coil resistance | 360 Ohm DC 20 °C +/- 10 % |
| [Ue] rated operational voltage | 9.6...13.2 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 (Ag/Ni) |
| [Ie] rated operational current | 16 A AC-1/DC-1) NO IEC 8 A AC-1/DC-1) NC IEC |
| Minimum switching current | 5 mA |
| Maximum switching voltage | 300 V DC 400 V AC |
| Minimum switching voltage | 5 V |
| Maximum switching capacity | 4000 VA AC 448 W DC |
| Resistive rated load | 16 A 250 V AC 16 A 28 V DC |
| Minimum switching capacity | 300 mW 5 mA |
| Operating rate | <= 600 cycles/hour under load <= 72000 cycles/hour no-load |
| Mechanical durability | 30000000 cycles |
| Electrical durability | 100000 Cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC |
| Operating time | 4 ms between coil de-energisation and making of the Off-delay contact 9 ms between coil energisation and making of the On-delay contact |
| Marking | CE |
| Average coil consumption | 0.45 W DC |
| Drop-out voltage threshold | >= 0.1 U _c DC |
| Safety reliability data | B10d = 100000 |
| Protection category | RT I |
| Operating position | Any position |
| Sale per indivisible quantity | 10 |
| Device presentation | Complete product |

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Environment

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|---------------------------------------|---|
| Dielectric strength | 1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact |
| Standards | CSA C22.2 No 14 UL 508 EN/IEC 61810-1 |
| Product Certifications | GOST UL 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 5 gn 11 ms) in operation EN/IEC 60068-2-27 |
| Ambient air temperature for operation | -40...158 °F (-40...70 °C) AC) -40...185 °F (-40...85 °C) DC) |

Ordering and shipping details

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|-------------------|-----------------------------|
| Category | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2 |
| GTIN | 3389110251838 |
| Returnability | No |

Packing Units

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|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.95 in (7.5 cm) |
| Package 1 Width | 13.27 in (33.7 cm) |
| Package 1 Length | 4.06 in (10.3 cm) |
| Package 1 Weight | 0.03 oz (0.9 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 20 |
| Package 2 Height | 2.95 in (7.5 cm) |
| Package 2 Width | 13.27 in (33.7 cm) |
| Package 2 Length | 4.06 in (10.3 cm) |
| Package 2 Weight | 2.92 lb(US) (1.326 kg) |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 120 |
| Package 3 Height | 11.81 in (30 cm) |
| Package 3 Width | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |
| Package 3 Weight | 18.51 lb(US) (8.396 kg) |

Offer Sustainability

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| 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 www.P65Warnings.ca.gov |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |

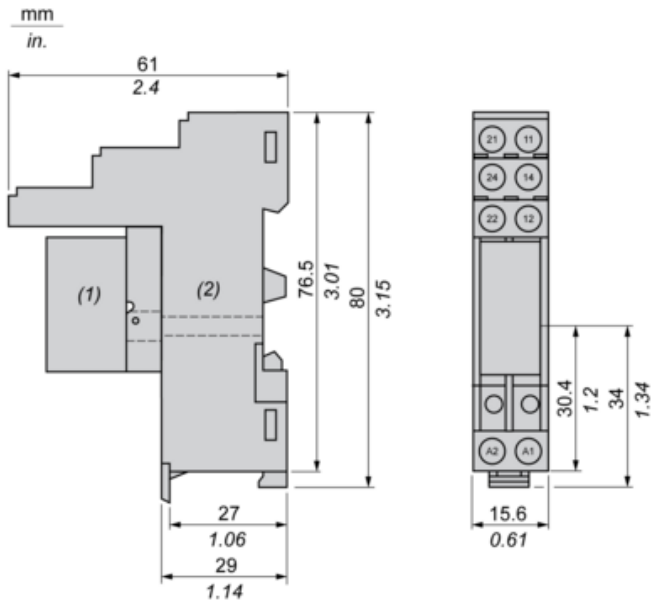
| | |
|--------------------------|--|
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

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| Warranty | 18 months |
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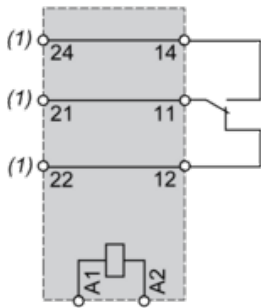
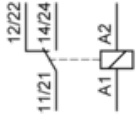
Dimensions

Relay Complete with Socket



- (1) Relays
- (2) Socket

Wiring Diagram



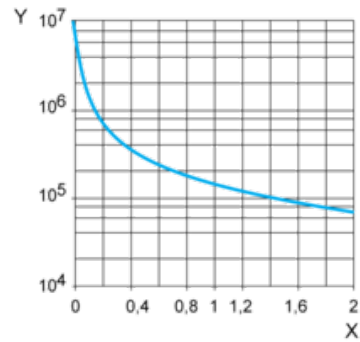
(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

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.

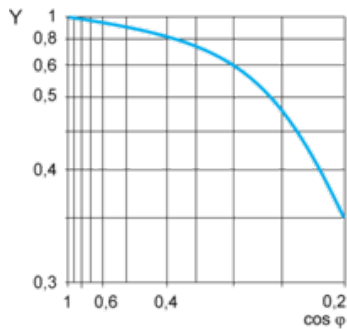
Resistive AC load



X Switching capacity (kVA)

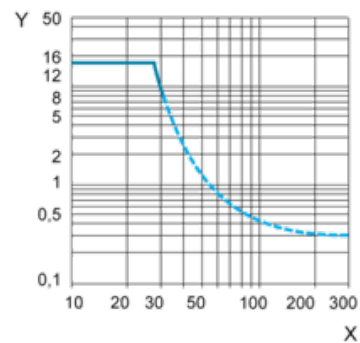
Y Durability (Number of operating cycles)

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.