



### Main

|  |                                 |
|--|---------------------------------|
| Range of product                             | Harmony Relay                   |
| Series name                                  | Power                           |
| Product or component type                    | Plug-in relay                   |
| Device short name                            | RPM                             |
| Contacts type and composition                | 3 C/O                           |
| [Uc] control circuit voltage                 | 48 V DC                         |
| [Ithe] conventional enclosed thermal current | 15 A -40...131 °F (-40...55 °C) |
| Status LED                                   | With                            |
| Control type                                 | Lockable test button            |
| Utilisation coefficient                      | 20 %                            |

### Complementary

|  |   |
|--|---|
| Shape of pin                           | Flat  |
| [Ui] rated insulation voltage          | 250 V conforming to IEC<br>300 V CSA<br>300 V UL  |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs  |
| Contacts material                      | AgNi  |
| [Ie] rated operational current         | 15 A 277 V AC) UL<br>15 A 28 V DC) UL<br>15 A 250 V AC) NO IEC<br>15 A 28 V DC) NO IEC<br>7.5 A 250 V AC) NC IEC<br>7.5 A 28 V DC) NC IEC |
| Maximum switching voltage              | 250 V IEC   |
| Resistive load current                 | 15 A 250 V AC<br>15 A 28 V DC   |
| Maximum switching capacity             | 3750 VA<br>420 W  |
| Minimum switching capacity             | 170 mW 10 mA, 17 V  |
| Operating rate                         | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load  |
| Mechanical durability                  | 10000000 cycles   |
| Electrical durability                  | 100000 cycles for resistive load  |
| Average coil consumption               | 1.5 W   |
| Drop-out voltage threshold             | >= 0.1 Uc DC  |
| Operate time                           | 20 ms at nominal voltage  |
| Release time                           | 20 ms at nominal voltage  |
| Average coil resistance                | 1280 Ohm 68 °F (20 °C) +/- 10 %   |
| Rated operational voltage limits       | 38.4...52.8 V DC  |
| Protection category                    | RT I  |
| Test levels                            | Level A group mounting  |
| Operating position                     | Any position  |
| Pollution degree                       | 3   |
| Safety reliability data                | B10d = 100000   |

|                     |                        |
|---------------------|------------------------|
| Net Weight          | 0.12 lb(US) (0.054 kg) |
| Device presentation | Complete product       |

## Environment

|                                       |  |
|---------------------------------------|--|
| Dielectric strength                   | 1500 V AC between contacts micro disconnection<br>2000 V AC between coil and contact reinforced<br>2000 V AC between poles basic |
| Standards                             | CSA C22.2 No 14<br>EN/IEC 61810-1<br>UL 508  |
| Product certifications                | CSA<br>UL<br>RoHS<br>EAC   |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)   |
| Ambient air temperature for operation | -40...55 °C  |
| Vibration resistance                  | 3 gn +/- 1 mm 10...150 Hz)5 cycles in operation<br>5 gn +/- 1 mm 10...150 Hz)5 cycles not operating                              |
| Degree of protection (Housing only)   | IP40 conforming to EN/IEC 60529  |
| Shock resistance                      | 15 gn in operation<br>30 gn not operating  |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS |
| Discount Schedule     | CP2                           |
| GTIN                  | 00785901797241                |
| Nbr. of units in pkg. | 10                            |
| Package weight(Lbs)   | 0.12 lb(US) (0.05 kg)         |
| Returnability         | No                            |
| Country of origin     | CN                            |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Height | 0.470 dm |
| Package 1 width  | 0.310 dm |
| Package 1 Length | 0.280 dm |

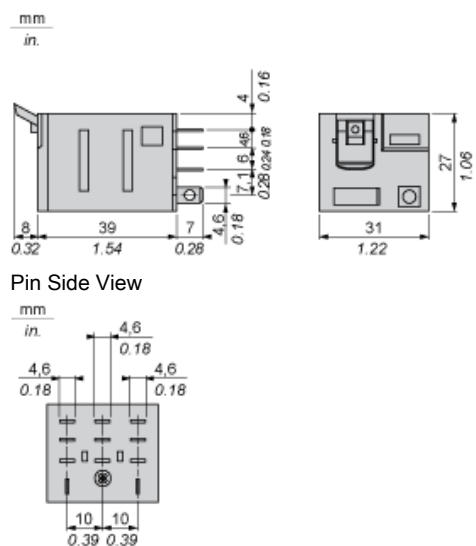
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| 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> |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| 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>   |
| 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.   |

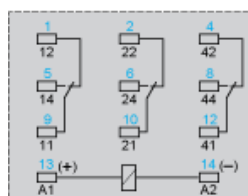
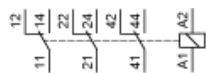
## Contractual warranty

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

## Dimensions



## Wiring Diagram



Symbols shown in blue correspond to Nema marking.

## 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.