



## Main

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Range of Product                             | Harmony Electromechanical Relays |
| Series name                                  | Power                            |
| Product or Component Type                    | Plug-in relay                    |
| Device short name                            | RPM                              |
| Contacts type and composition                | 4 C/O                            |
| [Uc] control circuit voltage                 | 230 V AC 50/60 Hz                |
| [Ithe] conventional enclosed thermal current | 15 A -40...131 °F (-40...55 °C)  |
| Status LED                                   | Without                          |
| Control Type                                 | Lockable test button             |
| Utilisation coefficient                      | 20 %                             |

## Complementary

|                                        |                                                                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                      |
| [Ui] rated insulation voltage          | 250 V 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 resistive                                                                                                                   |
| Average coil consumption in VA         | 2.5 60 Hz                                                                                                                                 |
| Drop-out voltage threshold             | >= 0.15 Uc AC                                                                                                                             |
| Operate time                           | 20 ms at nominal voltage                                                                                                                  |
| Release time                           | 20 ms at nominal voltage                                                                                                                  |
| Average coil resistance                | 7350 Ohm at 68 °F (20 °C) +/- 15 %                                                                                                        |
| Rated operational voltage limits       | 184...253 V AC                                                                                                                            |
| Protection category                    | RT I                                                                                                                                      |
| Test levels                            | Level A                                                                                                                                   |
| Operating position                     | Any position                                                                                                                              |
| Pollution degree                       | 3                                                                                                                                         |
| Safety reliability data                | B10d = 100000                                                                                                                             |
| Net Weight                             | 0.16 lb(US) (0.071 kg)                                                                                                                    |
| Device presentation                    | Complete product                                                                                                                          |

## Environment

|                                       |                                                                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1500 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact with reinforced<br>2000 V AC between poles with basic |
| Standards                             | UL 508<br>EN/IEC 61810-1<br>CSA C22.2 No 14                                                                                                     |
| Product Certifications                | UL<br>CSA<br>EAC                                                                                                                                |
| Ambient Air Temperature for Storage   | -40...185 °F (-40...85 °C)                                                                                                                      |
| Ambient air temperature for operation | -40...131 °F (-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                  | 3389119402194               |
| Nbr. of units in pkg. | 1                           |
| Package weight(Lbs)   | 2.65 oz (75.0 g)            |
| Returnability         | No                          |
| Country of origin     | CN                          |

## Packing Units

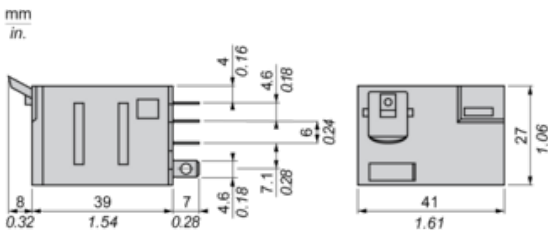
|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.85 in (4.7 cm)        |
| Package 1 width              | 1.10 in (2.8 cm)        |
| Package 1 Length             | 1.57 in (4 cm)          |
| Unit Type of Package 2       | CAR                     |
| Number of Units in Package 2 | 10                      |
| Package 2 Weight             | 26.77 oz (759.0 g)      |
| Package 2 Height             | 1.18 in (3 cm)          |
| Package 2 width              | 4.13 in (10.5 cm)       |
| Package 2 Length             | 8.86 in (22.5 cm)       |
| Unit Type of Package 3       | S02                     |
| Number of Units in Package 3 | 120                     |
| Package 3 Weight             | 21.08 lb(US) (9.563 kg) |
| Package 3 Height             | 5.91 in (15 cm)         |
| Package 3 width              | 11.81 in (30 cm)        |
| Package 3 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

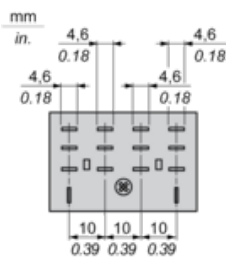
|                           |                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| <b>Contractual warranty</b> |                                                                                                                              |
| Warranty                    | 18 months                                                                                                                    |

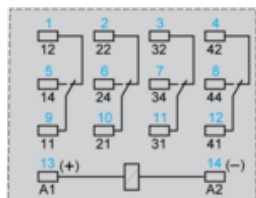
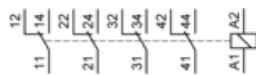
Dimensions



Pin Side View



## Wiring Diagram

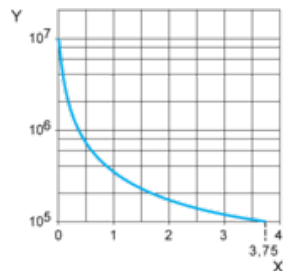


Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

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

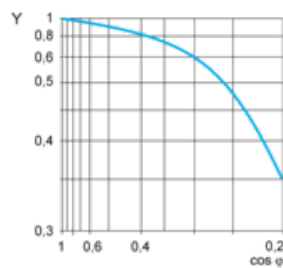
Resistive AC load



X Switching capacity (kVA)

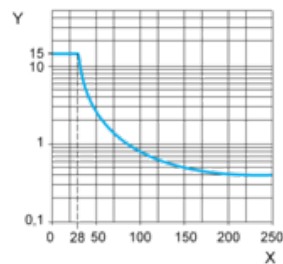
Y Durability (Number of operating cycles)

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.

# Mouser Electronics

Authorized Distributor

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