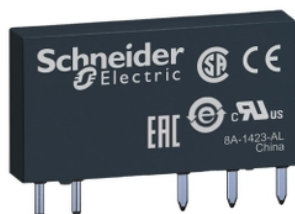


# RSL1GB4ED

Slim interface plug in relay, Harmony, 6A, 1CO,  
low level, 48V DC



## Main

|  |                                  |
|--|----------------------------------|
| Range of Product                             | Harmony Electromechanical Relays |
| Series name                                  | Slim interface relay             |
| Product or Component Type                    | Plug-in relay                    |
| Device short name                            | RSL                              |
| Contacts type and composition                | 1 C/O                            |
| Contact operation                            | Low level                        |
| [Uc] control circuit voltage                 | 48 V DC                          |
| [Ithe] conventional enclosed thermal current | 6 A -40...131 °F (-40...55 °C)   |
| Status LED                                   | Without                          |
| Control type                                 | Without push-button              |

## Complementary

|  |   |
|--|---|
| Shape of pin                           | Flat (PCB type)   |
| Average resistance                     | 10600 Ohm at 73 °F (23 °C) +/- 15 %                           |
| Rated operational voltage limits       | 36...67.2 V DC  |
| [Ui] rated insulation voltage          | 250 V IEC<br>277 V cUL  |
| [Uimp] rated impulse withstand voltage | 6 kV IEC  |
| Contacts material                      | Silver alloy - gold plated (AgSnO2)                           |
| [Ie] rated operational current         | 6 A AC-1/DC-1)IEC/UL  |
| Minimum switching current              | 1 mA  |
| Maximum switching voltage              | 277 V   |
| Minimum switching voltage              | 24 V  |
| Maximum switching capacity             | 1500 VA<br>50 W   |
| Minimum switching capacity             | 24 mW   |
| Operating rate                         | <= 360 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Mechanical durability                  | 10000000 cycles   |
| Electrical durability                  | 60000 cycles, 6 A at 250 V, AC-1 C/O                          |
| Operating time                         | 5 ms reset<br>12 ms   |
| Protection category                    | RT III  |
| Test levels                            | Level A group mounting  |
| Operating position                     | Any position  |
| Width                                  | 0.20 in (5 mm)  |
| Height                                 | 1.10 in (28 mm)   |
| Depth                                  | 0.73 in (18.5 mm)   |
| Terminals description ISO n°1          | (A1-A2)CO<br>(11-12-14)OC                                     |
| Net Weight                             | 0.01 lb(US) (0.0054 kg)                                       |
| Load current                           | 6 A 250 V AC 0.5 mm mounting distance                         |
| Average coil consumption               | 0.21 W  |
| Drop-out voltage threshold             | >= 0.05 Uc  |
| Safety reliability data                | B10d = 60000  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                     |                  |
|---------------------|------------------|
| Mounting Support    | Socket or PCB    |
| Device presentation | Complete product |

## Environment

|                                       |   |
|---------------------------------------|---|
| Dielectric strength                   | 1000 V AC between contacts<br>4000 V AC between coil and contact                    |
| Standards                             | IEC 61810-1<br>CSA C22.2 No 14<br>UL 508  |
| Product Certifications                | CSA[RETURN]UL[RETURN]EAC  |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)  |
| Vibration resistance                  | +/- 1 mm 10...55 Hz)IEC 60068-2-6   |
| IP degree of protection               | IP40 conforming to IEC 60529  |
| Shock resistance                      | 5 gn 11 ms) not operating IEC 60068-2-27<br>5 gn 11 ms) in operation IEC 60068-2-27 |
| Ambient air temperature for operation | -40...131 °F (-40...55 °C)  |

## Ordering and shipping details

|                   |                             |
|-------------------|-----------------------------|
| Category          | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2                         |
| GTIN              | 3606480077982               |
| Returnability     | No                          |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 0.20 in (0.5 cm)       |
| Package 1 Width              | 0.59 in (1.5 cm)       |
| Package 1 Length             | 1.10 in (2.8 cm)       |
| Package 1 Weight             | 0.21 oz (6 g)          |
| Unit Type of Package 2       | BB1                    |
| Number of Units in Package 2 | 10                     |
| Package 2 Height             | 0.28 in (0.7 cm)       |
| Package 2 Width              | 0.94 in (2.4 cm)       |
| Package 2 Length             | 12.01 in (30.5 cm)     |
| Package 2 Weight             | 2.36 oz (67 g)         |
| Unit Type of Package 3       | S01                    |
| Number of Units in Package 3 | 500                    |
| Package 3 Height             | 5.91 in (15 cm)        |
| Package 3 Width              | 5.91 in (15 cm)        |
| Package 3 Length             | 15.75 in (40 cm)       |
| Package 3 Weight             | 8.14 lb(US) (3.691 kg) |

## Offer Sustainability

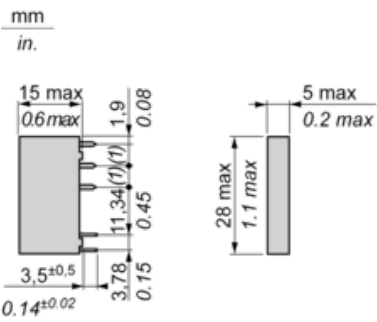
|                           |  |
|---------------------------|--|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California 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>   |
| China RoHS Regulation     | <a href="#">China RoHS Declaration</a>   |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile       | <a href="#">End Of Life Information</a>  |

Contractual warranty

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

Dimensions

Relay with Flat Pins (PCB Type)



(1): 5.04 mm / 0.19 in.

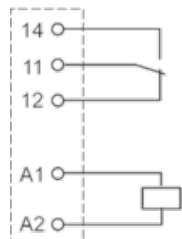
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## Wiring Diagram

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### Relay with Flat Pins (PCB Type)

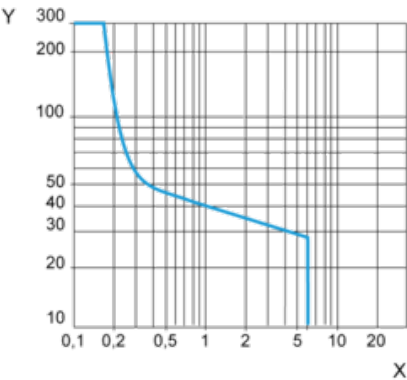
1 C/O contact



Curves for Resistive Load

Maximum Switching Capacity on DC Load

Resistive load



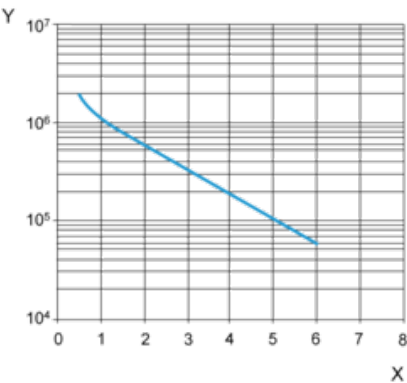
X DC Current

Y DC Voltage

Electrical Durability

Only tested at 6A/250VAC, projection for the rest

250 Vac Resistive load



X Switching current (A)

Y Cycles

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