

# Product data sheet

Specifications



## slim interface relay, Harmony Electromechanical Relays, 6A, 1CO, low level, 48V DC

RSL1GB4ED

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### Main

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

### Complementary

|   |                                       |
|---|---------------------------------------|
| [Uiimp] rated impulse withstand voltage | 6 kV IEC                              |
| [Ie] rated operational current          | 6 A AC-1/DC-1)IEC/UL                  |
| minimum switching current               | 1 mA                                  |
| Minimum switching voltage               | 24 V                                  |
| Minimum switching capacity              | 24 mW                                 |
| Rated operational voltage limits        | 36...67.2 V DC                        |
| [Ui] rated insulation voltage           | 250 V IEC<br>277 V cUL                |
| Operating time                          | 5 ms reset<br>12 ms                   |
| Maximum switching voltage               | 277 V                                 |
| Drop-out voltage threshold              | >= 0.05 Uc                            |
| Load current                            | 6 A 250 V AC 0.5 mm mounting distance |
| Maximum switching capacity              | 1500 VA<br>50 W                       |
| Terminals description ISO n°1           | (A1-A2)CO<br>(11-12-14)OC             |
| Average resistance                      | 10600 Ohm at 73 °F (23 °C) +/- 15 %   |
| Average coil consumption                | 0.21 W                                |
| Mechanical durability                   | 10000000 cycles                       |
| Electrical durability                   | 60000 cycles, 6 A at 250 V, AC-1 C/O  |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|                                |   |
|--------------------------------|---|
| <b>Safety reliability data</b> | B10d = 60000  |
| <b>Operating rate</b>          | <= 360 cycles/hour under load<br><= 18000 cycles/hour no-load |
| <b>Protection category</b>     | RT III  |
| <b>Mounting Support</b>        | Socket or PCB   |
| <b>Operating position</b>      | Any position  |
| <b>Test levels</b>             | Level A group mounting  |
| <b>Device presentation</b>     | Complete product  |
| <b>Contacts material</b>       | Silver alloy - gold plated (AgSnO2)                           |
| <b>Shape of pin</b>            | Flat (PCB type)   |
| <b>Width</b>                   | 0.2 in (5 mm)   |
| <b>Height</b>                  | 1.1 in (28 mm)  |
| <b>Depth</b>                   | 0.7 in (18.5 mm)  |
| <b>Product Weight</b>          | 0.0119 lb(US) (0.0054 kg)                                     |

## Environment

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

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10CP221127  |
| <b>Discount Schedule</b> | OCP2          |
| <b>GTIN</b>              | 3606480077982 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | CN            |

## Packing Units

|                               |                    |
|-------------------------------|--------------------|
| <b>Unit Type of Package 1</b> | PCE                |
| <b>Nbr. of units in pkg.</b>  | 1                  |
| <b>Package 1 Height</b>       | 0.28 in (0.700 cm) |
| <b>Package 1 Width</b>        | 0.79 in (2.000 cm) |
| <b>Package 1 Length</b>       | 1.14 in (2.900 cm) |
| <b>Package weight(Lbs)</b>    | 0.176 oz (5.000 g) |

|                                     |                         |
|-------------------------------------|-------------------------|
| <b>Unit Type of Package 2</b>       | BB1                     |
| <b>Number of Units in Package 2</b> | 10                      |
| <b>Package 2 Height</b>             | 0.35 in (0.900 cm)      |
| <b>Package 2 Width</b>              | 0.98 in (2.500 cm)      |
| <b>Package 2 Length</b>             | 12.05 in (30.600 cm)    |
| <b>Package 2 Weight</b>             | 2.363 oz (67.000 g)     |
| <b>Unit Type of Package 3</b>       | S01                     |
| <b>Number of Units in Package 3</b> | 500                     |
| <b>Package 3 Height</b>             | 5.91 in (15.000 cm)     |
| <b>Package 3 Width</b>              | 5.91 in (15.000 cm)     |
| <b>Package 3 Length</b>             | 15.75 in (40.000 cm)    |
| <b>Package 3 Weight</b>             | 7.934 lb(US) (3.599 kg) |

## **Contractual warranty**

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)

2

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

No

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

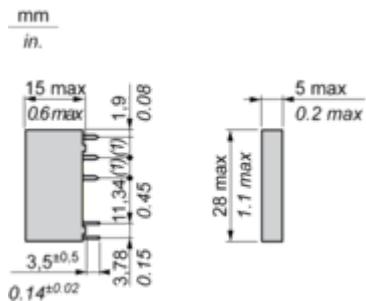
Take-back

No

## Dimensions Drawings

## Dimensions

## Relay with Flat Pins (PCB Type)



(1): 5.04 mm / 0.19 in.

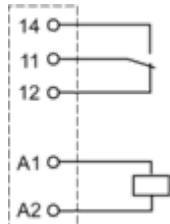
Connections and Schema

Wiring Diagram

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**Relay with Flat Pins (PCB Type)**

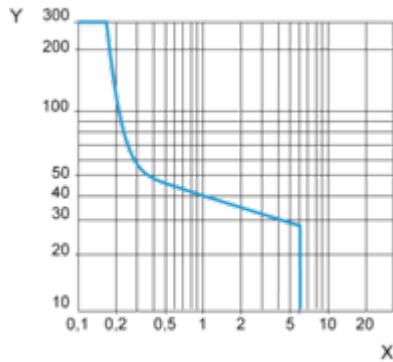
1 C/O contact



## Performance Curves

Curves for Resistive Load**Maximum Switching Capacity on DC Load**

Resistive load

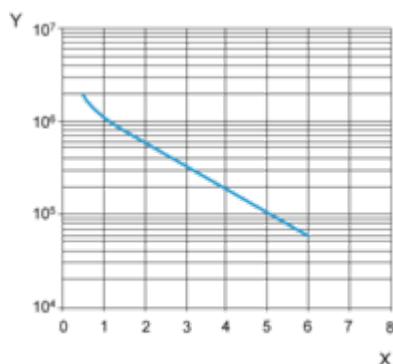


X DC Current

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.

## Technical Illustration

## Dimensions

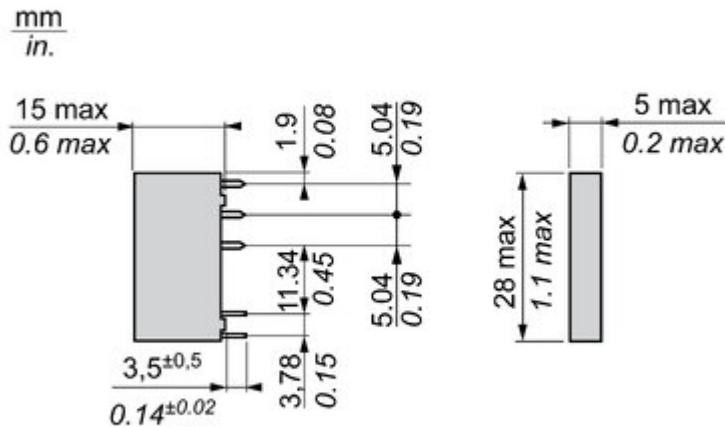


Image of product / Alternate images

Alternative

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