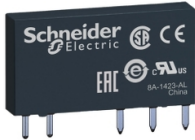


# Product data sheet

Specifications



slim interface plug in relay, Harmony Electromechanical Relays, 6A, 1CO, without lockable test button, low level, 12VDC

RSL1GB4JD

## 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                 | 12 V DC                          |
| [Ithe] conventional enclosed thermal current | 6 A at -40...55 °C               |

## Complementary

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC                             |
| [Ie] rated operational current         | 6 A (AC-1/DC-1) conforming to IEC/UL               |
| minimum switching current              | 1 mA                                               |
| Minimum switching voltage              | 24 V                                               |
| Minimum switching capacity             | 24 mW                                              |
| Rated operational voltage limits       | 9...16.8 V DC                                      |
| [Ui] rated insulation voltage          | 250 V conforming to IEC<br>277 V conforming to cUL |
| Operating time                         | 5 ms reset<br>12 ms                                |
| Maximum switching voltage              | 277 V                                              |
| Drop-out voltage threshold             | $\geq 0.05 U_c$                                    |
| Load current                           | 6 A at 250 V AC 0.5 mm mounting distance           |
| Maximum switching capacity             | 1500 VA<br>50 W                                    |
| Terminals description ISO n°1          | (11-12-14)OC<br>(A1-A2)CO                          |
| Average resistance                     | 848 Ohm at 23 °C +/- 10 %                          |
| Average coil consumption               | 0.17 W                                             |
| Mechanical durability                  | 10000000 cycles                                    |
| Electrical durability                  | 60000 cycles, 6 A at 250 V, AC-1 C/O               |

Disclaimer: 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

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

## Environment

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

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 0.5 cm  |
| Package 1 Width              | 1.5 cm  |
| Package 1 Length             | 2.8 cm  |
| Package 1 Weight             | 6 g     |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 10      |
| Package 2 Height             | 0.7 cm  |
| Package 2 Width              | 2.4 cm  |
| Package 2 Length             | 30.5 cm |
| Package 2 Weight             | 68 g    |

|                              |          |
|------------------------------|----------|
| Unit Type of Package 3       | S01      |
| Number of Units in Package 3 | 500      |
| Package 3 Height             | 15 cm    |
| Package 3 Width              | 15 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 3.625 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 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          |   |
|----------------------------------|---|
| Total lifecycle Carbon footprint | 2 |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                                                                                                    |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                                                                                                                                     |
| <a href="#">EU RoHS Directive</a>      | 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

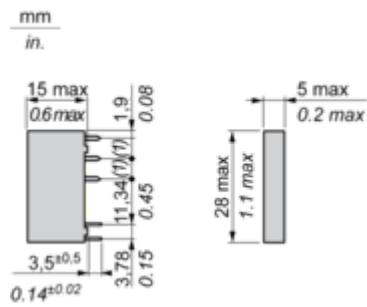
Use Again

| Repack and remanufacture |    |
|--------------------------|----|
| Take-back                | No |

Dimensions Drawings

Dimensions

Relay with Flat Pins (PCB Type)



(1): 5.04 mm / 0.19 in.

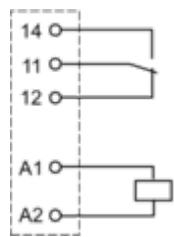
Connections and Schema

Wiring Diagram

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Relay with Flat Pins (PCB Type)

1 C/O contact

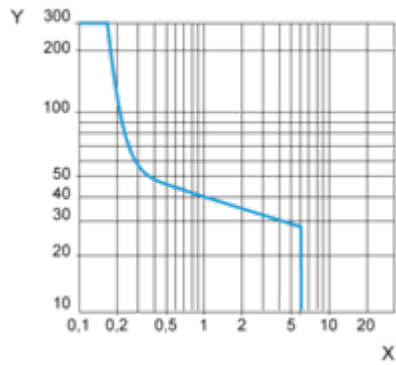


Performance Curves

Curves for Resistive Load

Maximum Switching Capacity on DC Load

Resistive load

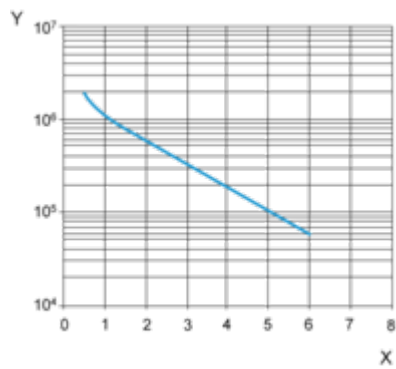


X DC Current

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

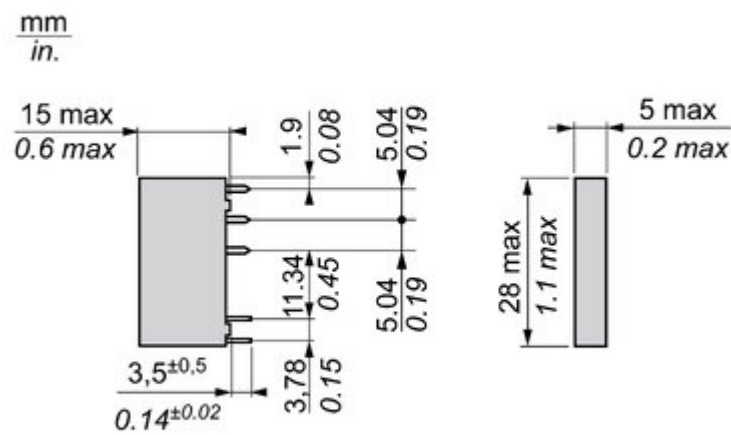


Image of product / Alternate images

Alternative

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