

# Product data sheet

Specifications



## interface plug-in relay - Harmony RSB - 1 N/O - 12 V DC - 16 A

RSB1H160JD

⚠ Discontinued on: Oct 8, 2021

⚠ Discontinued

### Main

|  |                                 |
|--|---------------------------------|
| Range of Product   | Zelio Relay                     |
| Series name  | Interface relay                 |
| Product or Component Type                                | Plug-in relay                   |
| Device short name  | RSB                             |
| Contacts type and composition                            | 1 NO                            |
| Contact operation  | Standard                        |
| Status LED   | Without                         |
| Control Type   | Without push-button             |
| [I <sub>th</sub> ] conventional enclosed thermal current | 16 A -40...104 °F (-40...40 °C) |

### Complementary

|   |   |
|---|---|
| Average resistance                                  | 360 Ohm AC 20 °C +/- 10 %                                     |
| [U <sub>e</sub> ] rated operational voltage         | 8.4...18 V DC   |
| [U <sub>imp</sub> ] rated impulse withstand voltage | 3.6 kV IEC 61000-4-5  |
| [I <sub>e</sub> ] rated operational current         | 16 A 250 V AC) NC IEC   |
| [U <sub>i</sub> ] rated insulation voltage          | 400 V EN/IEC 60947  |
| Inrush current                                      | 117 A TV-8  |
| Maximum switching voltage                           | 250 V DC IEC  |
| Drop-out voltage threshold                          | >= 0.1 U <sub>c</sub> DC                                      |
| Load current  | 16 A 250 V AC<br>16 A 28 V DC                                 |
| minimum switching current                           | 100 mA  |
| minimum switching voltage                           | 5 V   |
| Minimum switching capacity                          | 500 mW 100 mA, 5 V  |
| Operating time                                      | 20 ms operating<br>10 ms reset                                |
| Mechanical durability                               | 30000000 cycles   |
| Operating rate                                      | <= 600 cycles/hour under load<br><= 18000 cycles/hour no-load |
| Average coil consumption                            | 0.45 W DC   |
| Protection category                                 | RT I  |
| Operating position                                  | Any position  |

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

|                                      |                         |
|--------------------------------------|-------------------------|
| <b>Device presentation</b>           | Complete product        |
| <b>Sale per indivisible quantity</b> | 10                      |
| <b>Contacts material</b>             | Silver alloy (AgSnO)    |
| <b>Shape of pin</b>                  | Flat (PCB type)         |
| <b>Net Weight</b>                    | 0.031 lb(US) (0.014 kg) |
| <b>Compatibility code</b>            | RSB                     |

## Environment

|  |   |
|--|---|
| <b>Dielectric strength</b>                   | 1000 V AC between contacts<br>2500 V AC between poles<br>5000 V AC between coil and contact |
| <b>Vibration resistance</b>                  | +/- 1 mm (f= 10...55 Hz) conforming to EN/IEC 60068-2-6                                     |
| <b>IP degree of protection</b>               | IP40 conforming to EN/IEC 60529   |
| <b>Ambient air temperature for operation</b> | -40...185 °F (-40...85 °C) DC)  |
| <b>Standards</b>                             | UL 508<br>EN/IEC 61810-1<br>CSA C22.2 No 14   |
| <b>Product Certifications</b>                | UL<br>CSA<br>EAC  |
| <b>Ambient Air Temperature for Storage</b>   | -40...185 °F (-40...85 °C)  |
| <b>Shock resistance</b>                      | 10 gn 11 ms) not operating EN/IEC 60068-2-27<br>5 gn 11 ms) in operation EN/IEC 60068-2-27  |



## 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 >](#)

### Use Longer



#### Lifetime extension

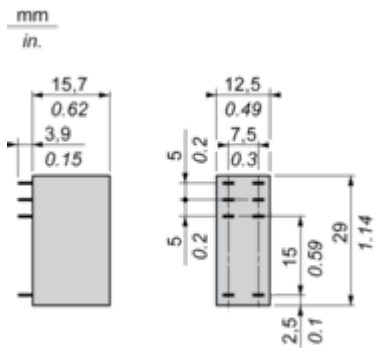
Repair

No

Dimensions Drawings

Dimensions

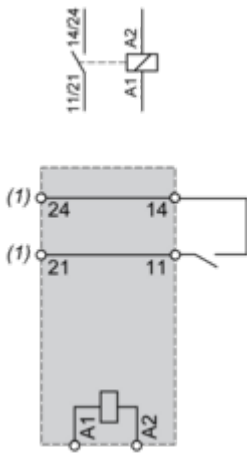
---



Connections and Schema

Wiring Diagram

---



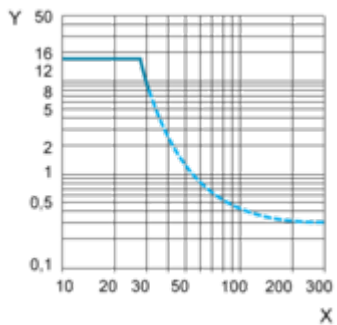
(1) Before wiring please refer to the Instruction sheet

Performance Curves

**Electrical Durability of Contacts**

---

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.

Technical Illustration

Dimensions

---

