

# Product datasheet

Specifications



## interface plug-in relay - Harmony RSB - 1 C/O - 48 V DC - 16 A - with socket

RSB1A160EDS

⚠ Discontinued on: 2 Apr 2021

⚠ Discontinued

### Main

|  |                     |
|--|---------------------|
| Range of product                             | Harmony Relay       |
| Series name                                  | Interface relay     |
| Product or component type                    | Plug-in relay       |
| Device short name                            | RSB                 |
| Contacts type and composition                | 1 C/O               |
| Contact operation                            | Standard            |
| [Uc] control circuit voltage                 | 48 V DC             |
| status LED                                   | Without             |
| [Ithe] conventional enclosed thermal current | 16 A at -40...40 °C |

### Complementary

|  |  |
|--|--|
| Average resistance                     | 5700 Ohm network: DC at 20 °C +/- 10 %   |
| [Ue] rated operational voltage         | 38.4...52.8 V DC   |
| [Uimp] rated impulse withstand voltage | 3.6 kV conforming to IEC 61000-4-5   |
| [Ie] rated operational current         | 16 A (AC-1/DC-1) NO conforming to IEC<br>8 A (AC-1/DC-1) NC conforming to IEC  |
| [Ui] rated insulation voltage          | 400 V conforming to EN/IEC 60947   |
| Maximum switching voltage              | 300 V DC<br>400 V AC   |
| Drop-out voltage threshold             | $\geq 0.1 U_c$ DC  |
| Load current                           | 16 A at 250 V AC<br>16 A at 28 V DC  |
| minimum switching current              | 5 mA   |
| Maximum switching capacity             | 4000 VA AC<br>448 W DC   |
| minimum switching voltage              | 5 V  |
| Minimum switching capacity             | 300 mW at 5 mA   |
| Operating time                         | 4 ms between coil de-energisation and making of the Off-delay contact<br>9 ms between coil energisation and making of the On-delay contact |
| Mechanical durability                  | 3000000 cycles   |
| Electrical durability                  | 100000 cycles, 16 A at 250 V, AC-1 NO<br>100000 cycles, 8 A at 250 V, AC-1 NC  |
| Safety reliability data                | B10d = 100000  |

|                                      |   |
|--------------------------------------|---|
| <b>Operating rate</b>                | <= 600 cycles/hour under load<br><= 72000 cycles/hour no-load |
| <b>Average coil consumption</b>      | 0.45 W DC   |
| <b>Protection category</b>           | RT I  |
| <b>Operating position</b>            | Any position  |
| <b>Device presentation</b>           | Complete product  |
| <b>Sale per indivisible quantity</b> | 10  |
| <b>Contacts material</b>             | Silver alloy (Ag/Ni)  |
| <b>Shape of pin</b>                  | Flat  |
| <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...70 °C (AC)<br>-40...85 °C (DC)   |
| <b>Standards</b>                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14  |
| <b>Product certifications</b>                | CSA<br>UL<br>GOST  |
| <b>Marking</b>                               | CE   |
| <b>Ambient air temperature for storage</b>   | -40...85 °C  |
| <b>Shock resistance</b>                      | 10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27<br>5 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27 |

## Packing Units

|                                     |     |
|-------------------------------------|-----|
| <b>Unit Type of Package 1</b>       | PCE |
| <b>Number of Units in Package 1</b> | 1   |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|



## 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