

# Product datasheet

Specifications



## interface plug-in relay - Harmony RSB - 1 C/O - 48 V DC - 12 A - with socket

RSB1A120EDS

⚠ Discontinued on: 29 Jan 2021

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### 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	12 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	12 A (AC-1/DC-1) NO conforming to IEC 6 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 400 V AC
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Load current	12 A at 250 V AC 12 A at 28 V DC
minimum switching current	5 mA
Maximum switching capacity	3000 VA AC 336 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 9 ms between coil energisation and making of the On-delay contact
Mechanical durability	3000000 cycles
Electrical durability	100000 cycles, 12 A at 250 V, AC-1 NO 100000 cycles, 6 A at 250 V, AC-1 NC
Safety reliability data	B10d = 100000

<b>Operating rate</b>	<= 600 cycles/hour under load <= 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 2500 V AC between poles 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) -40...85 °C (DC)
<b>Standards</b>	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
<b>Product certifications</b>	UL GOST CSA
<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 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
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## 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