Specifications



① Discontinued

Main

Main	
Range Of Product	Harmony Electromechanical Relays
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	12 V DC
[Ithe] Conventional Enclosed Thermal Current	12 A at -4040 °C
Status Led	Without
Control Type	Without push-button

() Discontinued on: Mar 31, 2023

RSB1A120JDS

Interface plug in relay with socket,

Harmony, 12A, 1CO, 12V DC

Complementary

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Shape Of Pin	Flat
Average Coil Resistance	360 Ohm network: DC at 20 °C +/- 10 %
[Ue] Rated Operational Voltage	9.613.2 V DC
[Ui] Rated Insulation Voltage	400 V conforming to EN/IEC 60947
[Uimp] Rated Impulse Withstand Voltage	3.6 kV conforming to IEC 61000-4-5
Contacts Material	Silver alloy (Ag/Ni)
[le] Rated Operational Current	12 A (AC-1/DC-1) NO conforming to IEC 6 A (AC-1/DC-1) NC conforming to IEC
Minimum Switching Current	5 mA
Maximum Switching Voltage	300 V DC 400 V AC
Minimum Switching Voltage	5 V
Maximum Switching Capacity	3000 VA AC 336 W DC
Resistive Rated Load	12 A at 250 V AC 12 A at 28 V DC
Minimum Switching Capacity	300 mW at 5 mA
Operating Rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
Mechanical Durability	3000000 cycles

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

Electrical Durability	100000 cycles, 12 A at 250 V, AC-1 NO 100000 cycles, 6 A at 250 V, AC-1 NC
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
Marking	CE
Average Coil Consumption	0.45 W DC
Drop-Out Voltage Threshold	>= 0.1 Uc DC
Safety Reliability Data	B10d = 100000
Protection Category	RT I
Operating Position	Any position
Sale Per Indivisible Quantity	10
Device Presentation	Complete product

Environment

Dielectric Strength	1000 V AC between contacts
	2500 V AC between poles
	5000 V AC between coil and contact
Standards	CSA C22.2 No 14
	UL 508
	EN/IEC 61810-1
Product Certifications	UL
	GOST
	CSA
Ambient Air Temperature For	-4085 °C
Storage	
Vibration Resistance	+/- 1 mm (f= 1055 Hz) conforming to EN/IEC 60068-2-6
Ip Degree Of Protection	IP40 conforming to EN/IEC 60529
Shock Resistance	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
Ambient Air Temperature For	-4070 °C (AC)
Operation	-4085 °C (DC)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	10.4 cm
Package 1 Length	34 cm
Package 1 Weight	0.9 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	20
Package 2 Height	7.5 cm
Package 2 Width	10.4 cm
Package 2 Length	34 cm
Package 2 Weight	1.07 kg
Unit Type Of Package 3	S02
Number Of Units In Package 3	60

Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	3.55 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency

Well-being performance

Toxic Heavy Metal Free
Mercury Free

Rohs Exemption Information

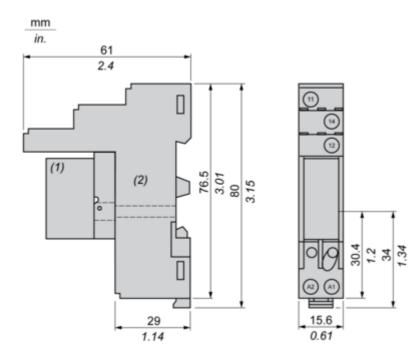
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Yes

Dimensions Drawings

Dimensions

Relay Complete with Socket

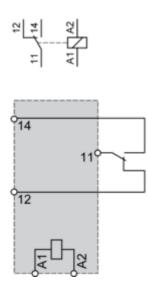


(1) Relays (2) Socket

Apr 25, 2024

Connections and Schema

Wiring Diagram



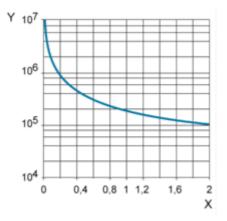
NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module



Performance Curves

Electrical Durability of Contacts

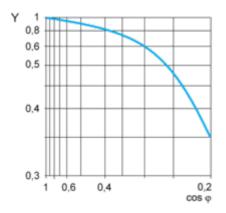
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



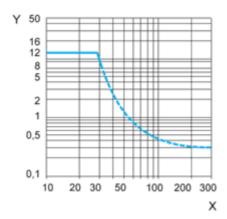
X Switching capacity (kVA)

Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor $\cos\varphi)$



Y Reduction coefficient (A) 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.