

Interface plug in relay with socket, Harmony, 12A, 1CO, 230V AC

RSB1A120P7S

Discontinued on: Jun 15, 2023

① Discontinued

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	230 V AC
[Ithe] Conventional Enclosed Thermal Current	12 A -40104 °F (-4040 °C)
Status Led	Without
Control Type	Without push-button

Complementary

Shape Of Pin	Flat
Average Coil Resistance	38500 Ohm AC 20 °C +/- 15 %
[Ue] Rated Operational Voltage	184276 V AC 50 Hz 195.5276 V AC 60 Hz
[Ui] Rated Insulation Voltage	400 V EN/IEC 60947
[Uimp] Rated Impulse Withstand Voltage	3.6 kV IEC 61000-4-5
Contacts Material	Silver alloy (Ag/Ni)
[le] Rated Operational Current	12 A AC-1/DC-1) NO IEC 6 A AC-1/DC-1) NC 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 250 V AC 12 A 28 V DC
Minimum Switching Capacity	300 mW 5 mA
Operating Rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
Mechanical Durability	30000000 cycles

Electrical Durability	100000 cycles, 12 A 250 V, AC-1 NO 100000 cycles, 6 A 250 V, AC-1 NC
Operating Time	10 ms between coil de-energisation and making of the Off-delay contact 12 ms between coil energisation and making of the On-delay contact
Marking	CE
Average Coil Consumption	0.75 VA AC 60 Hz
Drop-Out Voltage Threshold	>= 0.15 Uc AC
Safety Reliability Data	B10d = 100000
Protection Category	RTI
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
	EN/IEC 61810-1
	UL 508
Product Certifications	CSA
	GOST
	UL
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Vibration Resistance	+/- 1 mm 1055 Hz)EN/IEC 60068-2-6
Ip Degree Of Protection	IP40 EN/IEC 60529
Shock Resistance	10 gn 11 ms) not operating EN/IEC 60068-2-27
	5 gn 11 ms) in operation EN/IEC 60068-2-27
Ambient Air Temperature For	-40158 °F (-4070 °C) AC)
Operation	-40185 °F (-4085 °C) DC)
•	10100 1 (1000 0, 20,

Packing Units

•	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.09 in (10.4 cm)
Package 1 Length	13.39 in (34 cm)
Package 1 Weight	1.83 oz (52 g)
Unit Type Of Package 2	BB1
Number Of Units In Package 2	20
Package 2 Height	2.95 in (7.5 cm)
Package 2 Width	13.39 in (34 cm)
Package 2 Length	4.09 in (10.4 cm)
Package 2 Weight	2.41 lb(US) (1.092 kg)
Unit Type Of Package 3	S03
Number Of Units In Package 3	140

Package 3 Height	11.81 in (30 cm)
Package 3 Width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)
Package 3 Weight	17.91 lb(US) (8.126 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

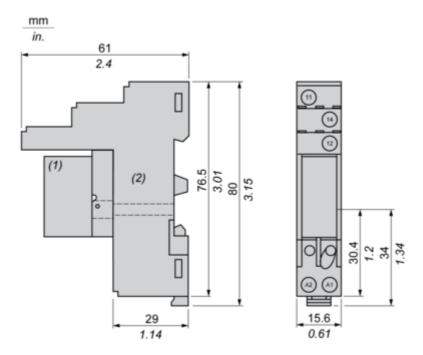
Well-being performance

The many particular and the ma	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
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	

Dimensions Drawings

Dimensions

Relay Complete with Socket

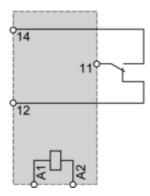


- (1) Relays (2) Socket

Connections and Schema

Wiring Diagram



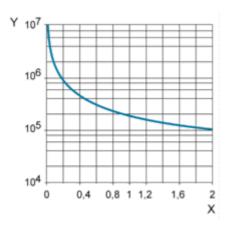


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

Electrical Durability of Contacts

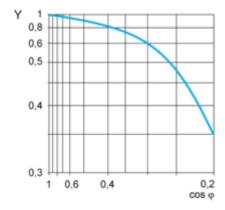
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



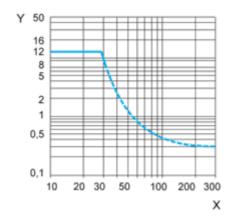
X Switching capacity (kVA)

Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos φ)



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.