## **Product datasheet**

Specification





# Interface plug-in relay, 8 A, 2 CO, 24 V AC

RSB2A080B7

#### 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	2 C/O	
Contact Operation	Standard	
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz	
[Ithe] Conventional Enclosed Thermal Current	8 A at -4040 °C	
Status Led	Without	
Control Type	Without push-button	

### Complementary

Shape Of Pin	Flat (PCB type)
Average Coil Resistance	368 Ohm network: AC at 20 °C +/- 10 %
[Ue] Rated Operational Voltage	19.236 V AC 50/60 Hz
[Ui] Rated Insulation Voltage	400 V conforming to IEC 60947
[Uimp] Rated Impulse Withstand Voltage	3.6 kV conforming to IEC 61000-4-5
Contacts Material	Silver alloy (AgNi)
[le] Rated Operational Current	4 A (AC-1/DC-1) NC conforming to IEC 8 A (AC-1/DC-1) NO conforming to IEC
Minimum Switching Current	10 mA
Maximum Switching Voltage	300 V DC conforming to IEC
Minimum Switching Voltage	12 V
Maximum Switching Capacity	2000 VA/224 W
Resistive Rated Load	8 A at 250 V AC 8 A at 28 V DC
Minimum Switching Capacity	120 mW at 10 mA, 12 V
Operating Rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical Durability	5000000 cycles
Electrical Durability	100000 cycles, 8 A at 250 V, AC-1 NO 100000 cycles, 4 A at 250 V, AC-1 NC

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



Operating Time	20 ms operating 20 ms reset
Average Coil Consumption	0.75 VA AC
Drop-Out Voltage Threshold	>= 0.15 Uc AC
Safety Reliability Data	B10d = 100000
Protection Category	RTI
Test Levels	Level A group mounting
Operating Position	Any position
Net Weight	0.014 kg
Sale Per Indivisible Quantity	10
Device Presentation	Complete product
Environment	
Dielectric Strength	1000 V AC between contacts

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 IEC 61810-1
Product Certifications	UL CSA EAC
Ambient Air Temperature For Storage	-4085 °C
Vibration Resistance	+/- 1 mm (f= 1055 Hz) conforming to IEC 60068-2-6
Ip Degree Of Protection	IP40 conforming to IEC 60529
Shock Resistance	10 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ambient Air Temperature For Operation	-4070 °C (AC)

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.700 cm
Package 1 Width	2.500 cm
Package 1 Length	31.100 cm
Package 1 Weight	12.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	1.700 cm
Package 2 Width	2.500 cm
Package 2 Length	31.100 cm
Package 2 Weight	146.000 g
Unit Type Of Package 3	S01
Number Of Units In Package 3	350
Package 3 Height	15.000 cm

Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.250 ka

## **Contractual warranty**

Warranty 18 months



**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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 RoHS/REACh

#### Well-being performance

✓ Toxic Heavy Metal Free
 ✓ Mercury Free
 ✓ Rohs Exemption Information

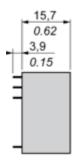
#### **Certifications & Standards**

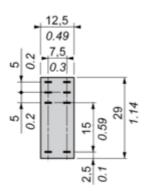
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations

#### **Dimensions Drawings**

#### **Dimensions**

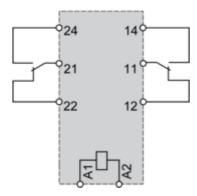






Connections and Schema

#### Wiring Diagram

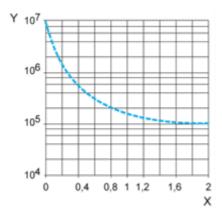


**NOTE:** For DC input, A1 have to be +, otherwise it would short circuit from protection module

#### Performance Curves

#### **Electrical Durability of Contacts**

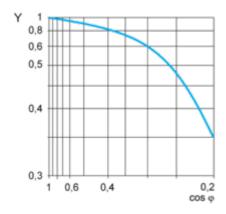
**Durability (inductive load) = durability (resistive load) x reduction coefficient.** Resistive AC load



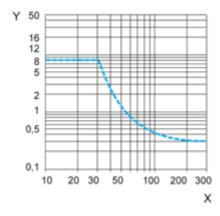
X Switching capacity (kVA)

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.