

Product datasheet

Specifications



Harmony. Interface plug-in relay pre-assembled. 8 A. 2 CO. with LED. with protection circuit. 24 V AC

RSB2A080B7PV

Price: 382.69 ZAR

Main

| | |
|--|---|
| Range Of Product | Harmony Electromechanical Relays |
| Series Name | Interface relay |
| Product Or Component Type | Pre-assembled plug-in relay with socket |
| 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 -40...40 °C |
| Status Led | 1 LED |
| Control Type | Without |

Complementary

| | |
|--|---|
| Average Coil Resistance | 350 Ohm network: AC at 20 °C +/- 15 % |
| [Ue] Rated Operational Voltage | 19.2...26.4 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) |
| [Ie] 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 | 224 W DC 2000 VA AC |
| 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, 12 A at 250 V, AC-1 NO 100000 cycles, 6 A at 250 V, DC-1 NC |
| Operating Time | 20 ms operating 20 ms reset |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

| | |
|-------------------------------|--|
| Average Coil Consumption | 0.75 VA AC |
| Drop-Out Voltage Threshold | >= 0.15 U _c AC |
| Safety Reliability Data | B10d = 100000 |
| Protection Category | RT I |
| Test Levels | Level A group mounting |
| Operating Position | Any position |
| Torque Value | 0.8 N.m 0.79 N.m |
| Connections - Terminals | Connector, 1 x 0.25...1 x 2.5 mm ² (AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm ² (AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm ² (AWG 20...AWG 16) solid without cable end |
| Net Weight | 0.057 kg |
| Sale Per Indivisible Quantity | 30 |
| 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 | IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984 |
| Product Certifications | CE UL CSA EAC |
| Ambient Air Temperature For Storage | -40...85 °C |
| Vibration Resistance | +/- 1 mm (f= 10...55 Hz) conforming to IEC 60068-2-6 |
| Ip Degree Of Protection | IP20 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 | -40...70 °C (AC) |

Packing Units

| | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 8.42 cm |
| Package 1 Width | 1.56 cm |
| Package 1 Length | 6.42 cm |
| Package 1 Weight | 60 g |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 30 |
| Package 2 Height | 18 cm |
| Package 2 Width | 9 cm |
| Package 2 Length | 27 cm |

| | |
|------------------------------|-----------|
| Package 2 Weight | 1.985 kg |
| Unit Type Of Package 3 | S03 |
| Number Of Units In Package 3 | 180 |
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 12.754 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 Months |
|----------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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 Yes

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)

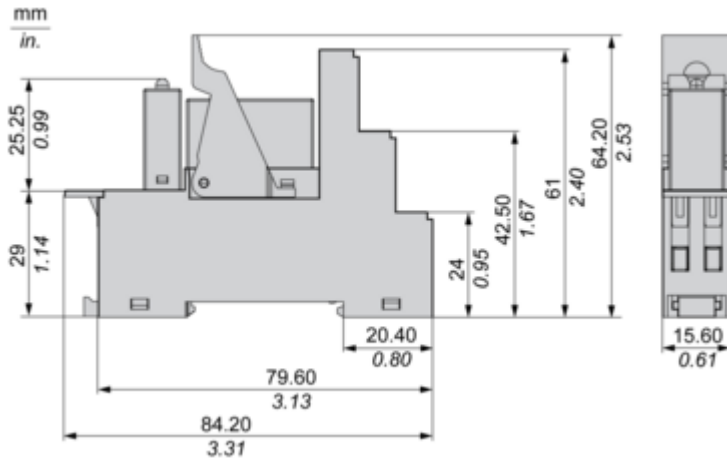
Environmental Disclosure [Product Environmental Profile](#)

Weee 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

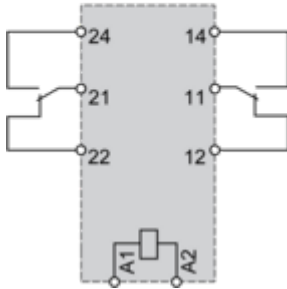
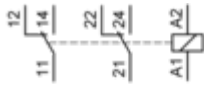
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

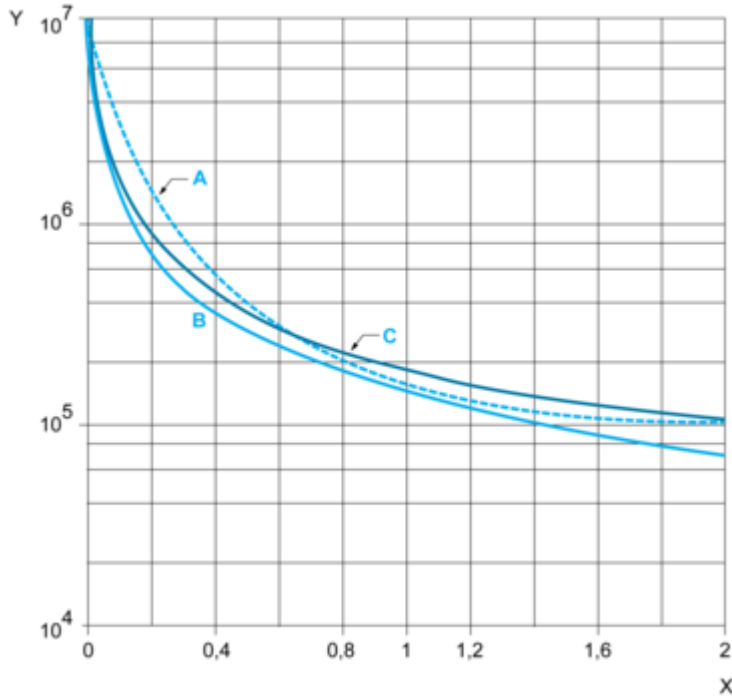


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

Electrical Durability of Contacts

Durability (Inductive Load) = Durability (Resistive Load) x Reduction Coefficient.
Resistive AC Load



(y) Durability (Number of operating cycles)

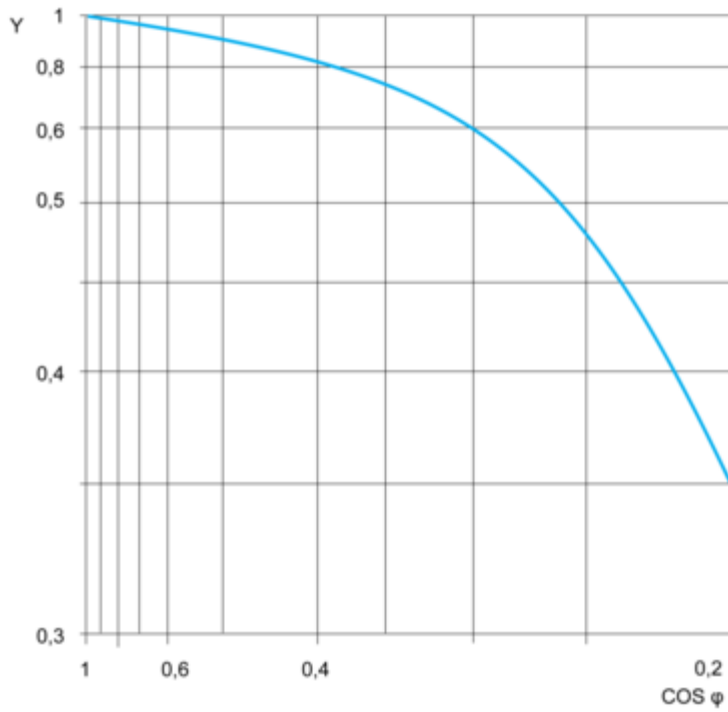
(x) Switching capacity (kVA)

A : RSB2A080●●

B : RSB1A160●●

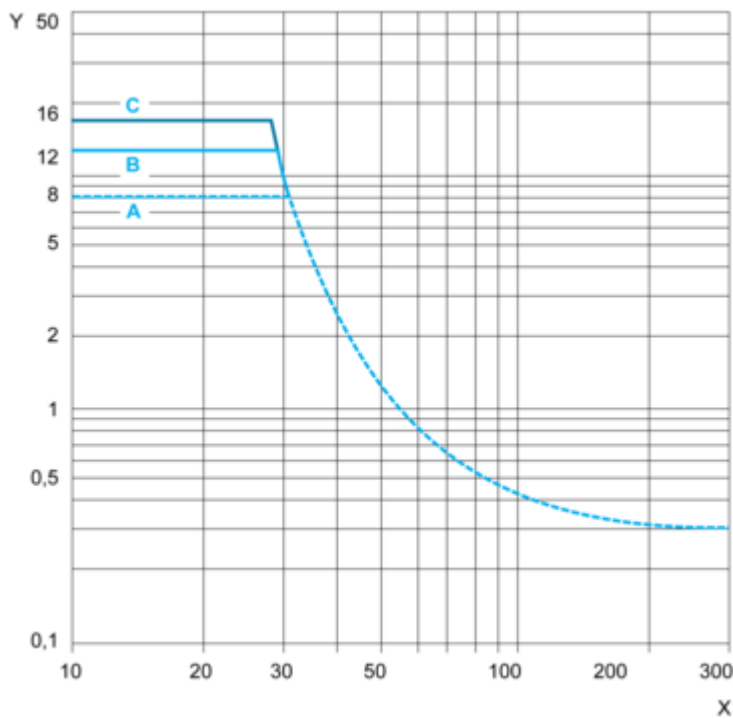
C : RSB1A120●●

Reduction Coefficient for Inductive AC Load (Depending on Power Factor cos φ)



(y) Reduction coefficient (A)

Maximum Switching Capacity on Resistive DC Load



(y) Current DC

(x) Voltage DC

A : RSB2A080●●

B : RSB1A160●●

C : RSB1A120●●

NOTE: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

