


Product datasheet

Specifications



Interface plug in relay with socket, Harmony, 8A, 2CO, 230V AC

RSB2A080P7S

 **Discontinued on:** Aug 18, 2022

 **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 | 2 C/O |
| Contact Operation | Standard |
| [Uc] Control Circuit Voltage | 230 V AC |
| [Ithe] Conventional Enclosed Thermal Current | 8 A at -40...40 °C |
| Status Led | Without |
| Control Type | Without push-button |

Complementary

| | |
|--|--|
| Shape Of Pin | Flat |
| Average Coil Resistance | 38500 Ohm network: AC at 20 °C +/- 15 % |
| [Ue] Rated Operational Voltage | 184...276 V AC 50 Hz 195.5...276 V AC 60 Hz |
| [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) |
| [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 | 5 mA |
| Maximum Switching Voltage | 300 V DC 400 V AC |
| Minimum Switching Voltage | 5 V |
| Maximum Switching Capacity | 2000 VA AC 224 W DC |
| Resistive Rated Load | 8 A at 250 V AC 8 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 | 30000000 cycles |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|-------------------------------|--|
| Electrical Durability | 100000 cycles, 8 A at 250 V, AC-1 NO 100000 cycles, 4 A at 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 U _c AC |
| 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 | UL 508 CSA C22.2 No 14 EN/IEC 61810-1 |
| Product Certifications | GOST CSA UL |
| Ambient Air Temperature For Storage | -40...85 °C |
| Vibration Resistance | +/- 1 mm (f= 10...55 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 Operation | -40...70 °C (AC) -40...85 °C (DC) |

Packing Units

| | |
|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 7.6 cm |
| Package 1 Width | 10.5 cm |
| Package 1 Length | 34 cm |
| Package 1 Weight | 51 g |
| Unit Type Of Package 2 | BB1 |
| Number Of Units In Package 2 | 20 |
| Package 2 Height | 7.6 cm |
| Package 2 Width | 10.5 cm |
| Package 2 Length | 34 cm |
| Package 2 Weight | 1.215 kg |
| Unit Type Of Package 3 | S03 |
| Number Of Units In Package 3 | 120 |

| | |
|------------------|----------|
| Package 3 Height | 30 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 7.785 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

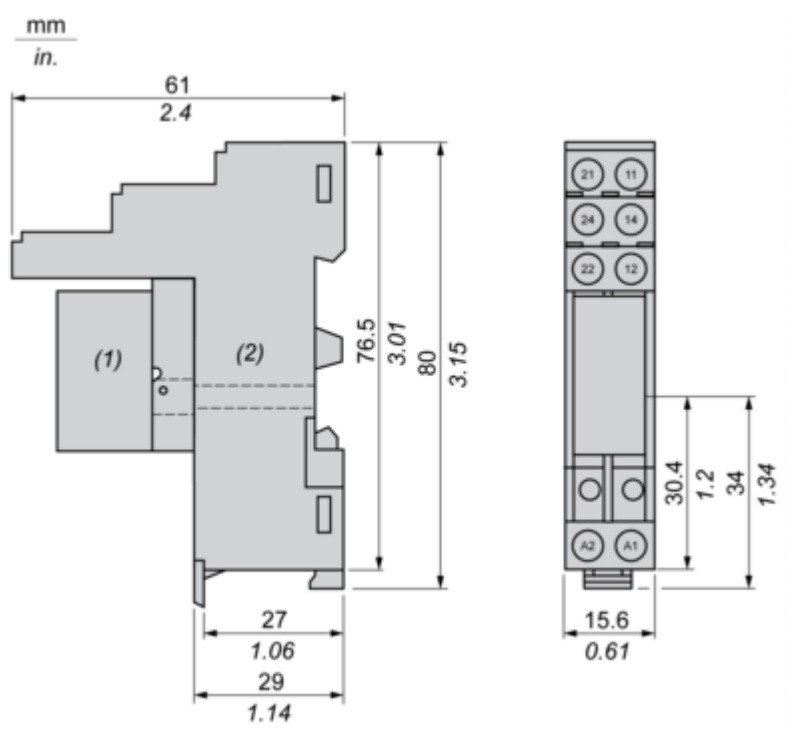
Well-being performance

| | |
|------------------------------|---|
| ✓ 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 |

Dimensions Drawings

Dimensions

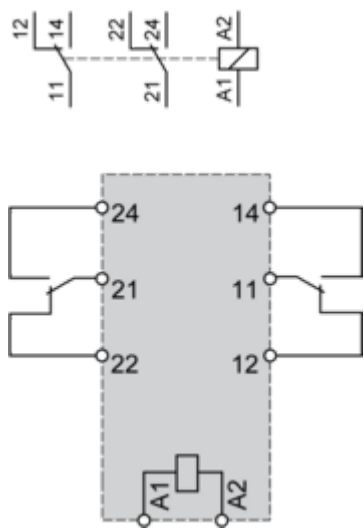
Relay Complete with Socket



- (1) Relays
- (2) Socket

Connections and Schema

Wiring Diagram

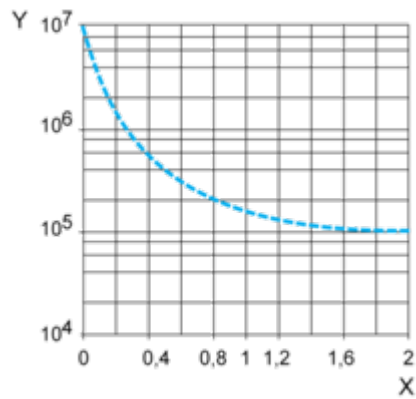


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

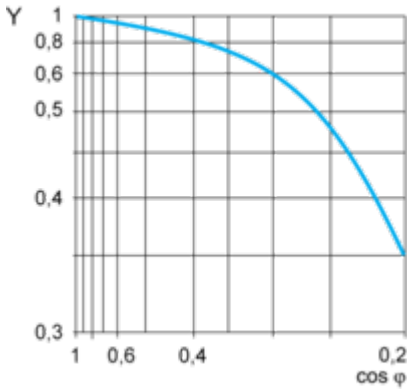
Performance Curves

Electrical Durability of Contacts

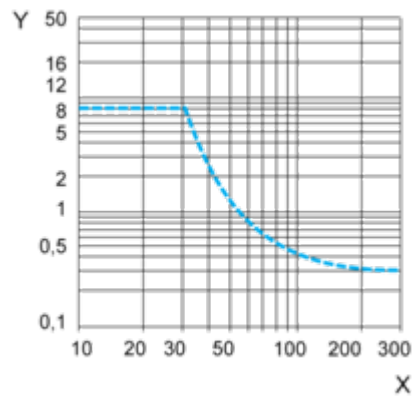
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



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.