

RSB2A080B7PV

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



Main

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|--|--|
| Range of product | Harmony Electromechanical Relays |
| Series name | Interface relay |
| Product or component type | Pre-assembled plug-in relay with socket type |
| 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 EN/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 |
| Average coil consumption | 0.75 VA AC |
| Drop-out voltage threshold | >= 0.15 Uc 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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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|-------------------------------|--|
| 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

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|---------------------------------------|--|
| Dielectric strength | 1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact |
| Standards | EN/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 EN/IEC 60068-2-6 |
| IP degree of protection | IP20 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) |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 60.0 g |
| Package 1 Height | 8.42 cm |
| Package 1 width | 1.56 cm |
| Package 1 Length | 6.42 cm |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 180 |
| Package 2 Weight | 12.754 kg |
| Package 2 Height | 30 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |
| Unit Type of Package 3 | BB1 |
| Number of Units in Package 3 | 30 |
| Package 3 Weight | 1.985 kg |
| Package 3 Height | 18 cm |
| Package 3 width | 9 cm |
| Package 3 Length | 27 cm |

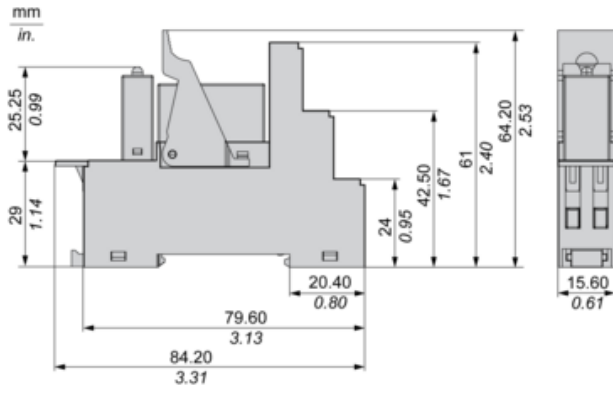
Offer Sustainability

| | |
|----------------------------|--|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information |  Yes |
| 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 |

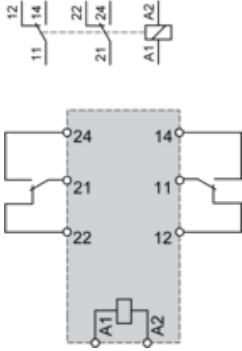
Contractual warranty

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



Wiring Diagram

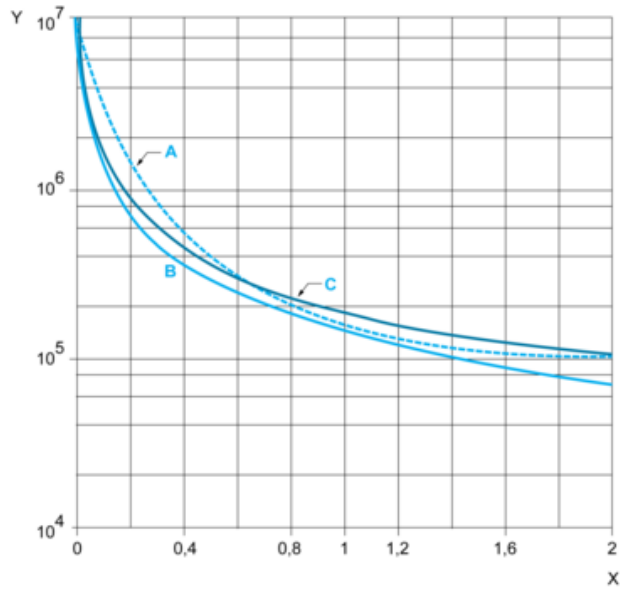


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

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

Resistive AC Load



(y) Durability (Number of operating cycles)

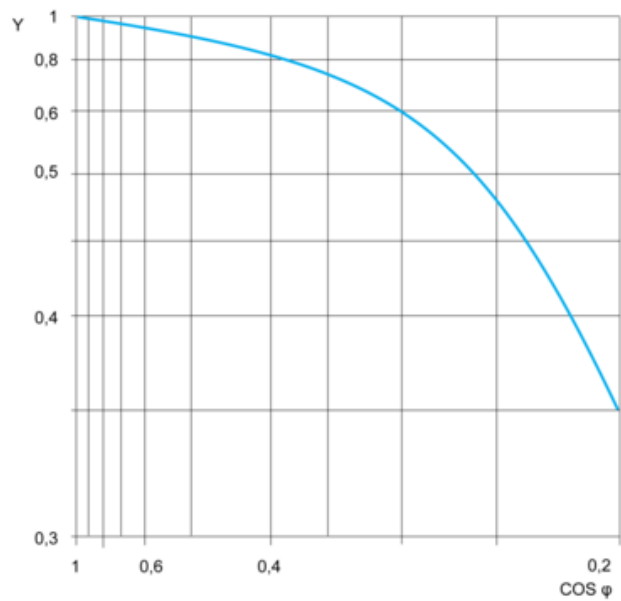
(x) Switching capacity (kVA)

A : RSB2A080●●

B : RSB1A160●●

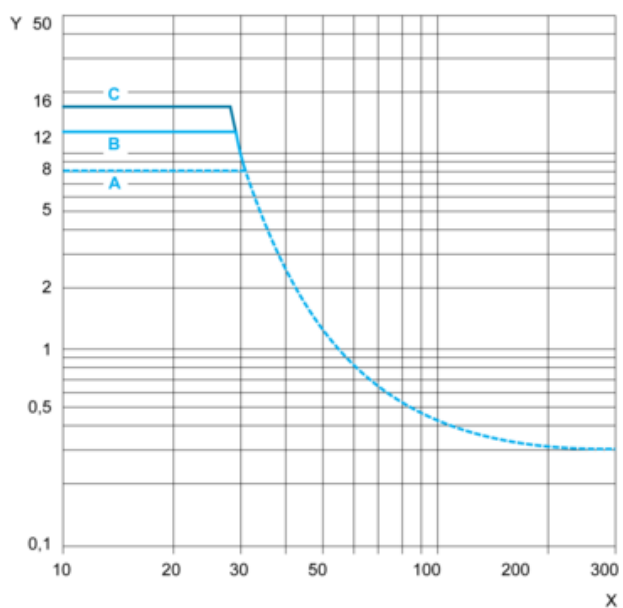
C : RSB1A120●●

Reduction Coefficient for Inductive AC Load (Depending on Power Factor $\cos \phi$)



(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.