

RSB2A080P7PV

Interface plug-in relay, Harmony EMR, pre-assembled, 8A, 2CO, with LED, with protection circuit, 230V AC, 32500Ohm coil resistance



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 |
| Device short name | RSB |
| Contacts type and composition | 2 C/O |
| Contact operation | Standard |
| [Uc] control circuit voltage | 230 V AC 50/60 Hz |
| [Ithe] conventional enclosed thermal current | 8 A -40...104 °F (-40...40 °C) |
| Status LED | 1 LED |
| Control Type | Without |

Complementary

| | |
|--|--|
| Average coil resistance | 32500 Ohm AC 20 °C +/- 15 % |
| [Ue] rated operational voltage | 184...253 V AC 50/60 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 (AgNi) |
| [Ie] rated operational current | 4 A AC-1/DC-1) NC IEC 8 A AC-1/DC-1) NO IEC |
| Minimum switching current | 10 mA |
| Maximum switching voltage | 300 V DC IEC |
| Minimum switching voltage | 12 V |
| Maximum switching capacity | 2000 VA AC 224 W DC |
| Resistive rated load | 8 A 250 V AC 8 A 28 V DC |
| Minimum switching capacity | 120 mW 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 |
| 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 | 7.08 Lbf.in (0.8 N.m) 7.0 lbf.in (0.79 N.m) |

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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 | 0.13 lb(US) (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[RETURN]UL[RETURN]CSA[RETURN]EAC |
| Ambient Air Temperature for Storage | -40...185 °F (-40...85 °C) |
| Vibration resistance | +/- 1 mm 10...55 Hz)EN/IEC 60068-2-6 |
| IP degree of protection | IP20 conforming to 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 operation | -40...158 °F (-40...70 °C) AC) |

Ordering and shipping details

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|-------------------|---------------|
| Category | US10CP221127 |
| Discount Schedule | 0CP2 |
| GTIN | 3606489562793 |
| Returnability | No |
| Country of origin | ID |

Packing Units

| | |
|------------------------------|--------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.31 in (8.42 cm) |
| Package 1 Width | 0.61 in (1.56 cm) |
| Package 1 Length | 2.53 in (6.42 cm) |
| Package 1 Weight | 2.12 oz (60 g) |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 30 |
| Package 2 Height | 7.09 in (18 cm) |
| Package 2 Width | 3.54 in (9 cm) |
| Package 2 Length | 10.63 in (27 cm) |
| Package 2 Weight | 4.34 lb(US) (1.968 kg) |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 180 |
| 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 | 28.21 lb(US) (12.797 kg) |

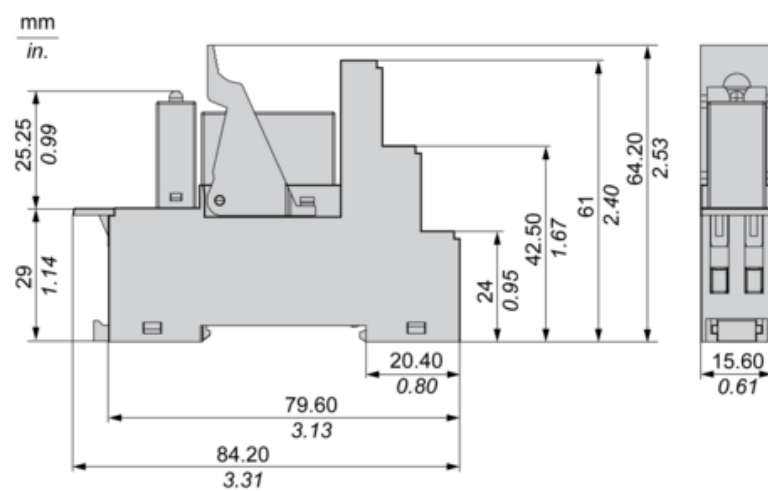
Offer Sustainability

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|----------------------------|--|
| California proposition 65 | WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

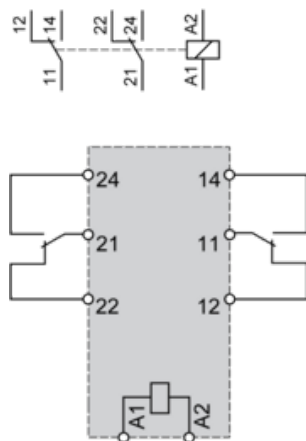
Contractual warranty

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| Warranty | 18 Months |
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Dimensions



Wiring Diagram

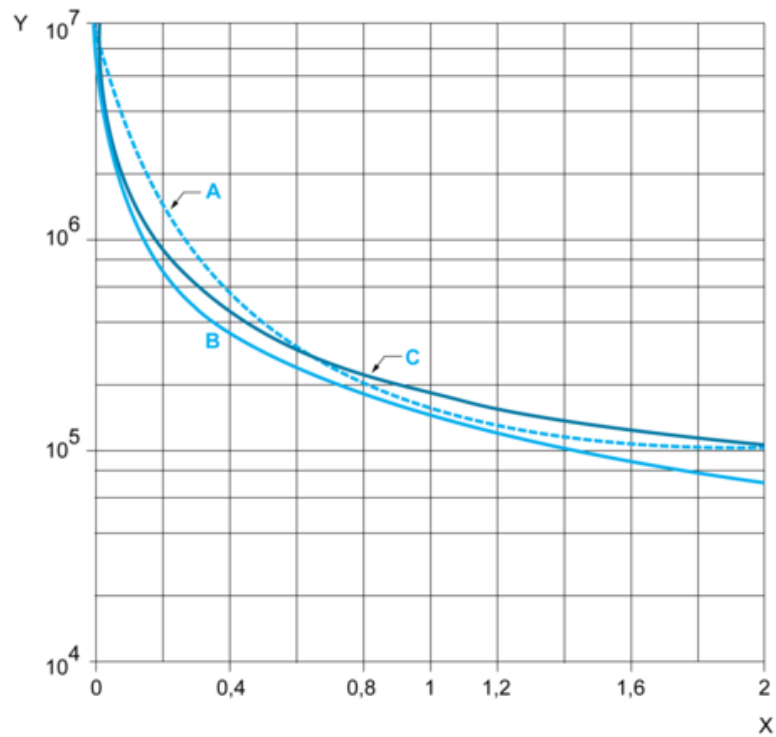


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

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

Resistive AC Load



(y) Durability (Number of operating cycles)

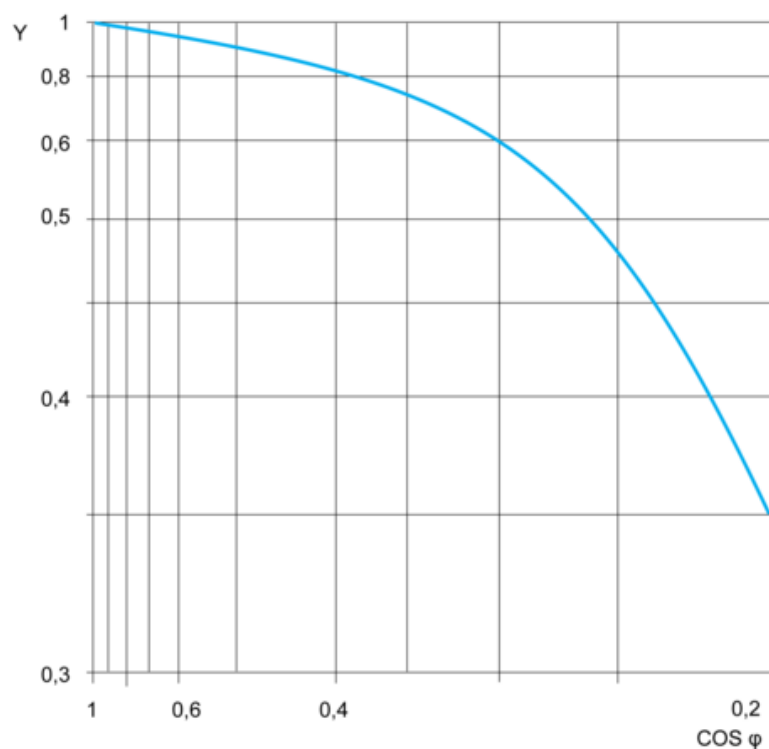
(x) Switching capacity (kVA)

A : RSB2A080●●

B : RSB1A160●●

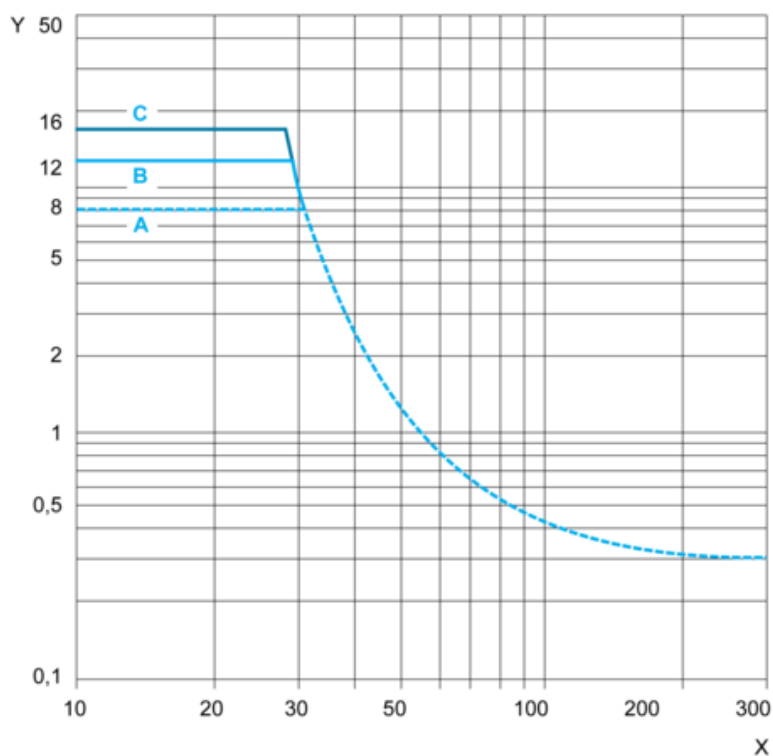
C : RSB1A120●●

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.