

# Product data sheet

Specifications



## interface plug in relay, Harmony Electromechanical Relays, 16A, 1CO, 24V AC

RSB1A160B7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 5.12 USD

### 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	1 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	16 A -40...104 °F (-40...40 °C)
Status LED	Without
Control Type	Without push-button

### Complementary

Shape of pin	Flat (PCB type)
average coil resistance	368 Ohm AC 20 °C +/- 10 %
[Ue] rated operational voltage	19.2...36 V AC 50/60 Hz
[Ui] rated insulation voltage	400 V IEC 60947
[Uimp] rated impulse withstand voltage	3.6 kV IEC 61000-4-5
Contacts material	Silver alloy (AgNi)
[Ie] rated operational current	16 A AC-1/DC-1) NO IEC 8 A AC-1/DC-1) NC IEC
Minimum switching current	10 mA
Maximum switching voltage	300 V DC IEC
minimum switching voltage	12 V
Maximum switching capacity	4000 VA/448 W
resistive rated load	16 A 250 V AC 16 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	10000000 cycles

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

<b>Electrical durability</b>	100000 cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC
<b>Operating time</b>	20 ms operating 20 ms reset
<b>marking</b>	CE
<b>average coil consumption</b>	0.75 VA AC
<b>Drop-out voltage threshold</b>	>= 0.15 U <sub>c</sub> AC
<b>Safety reliability data</b>	B10d = 100000
<b>Protection category</b>	RT I
<b>Test levels</b>	Level A group mounting
<b>Operating position</b>	Any position
<b>Net Weight</b>	0.031 lb(US) (0.014 kg)
<b>Sale per indivisible quantity</b>	10
<b>Device presentation</b>	Complete product

## Environment

<b>Dielectric strength</b>	1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact
<b>Standards</b>	UL 508 IEC 61810-1 CSA C22.2 No 14
<b>Product Certifications</b>	UL EAC CSA
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Vibration resistance</b>	+/- 1 mm 10...55 Hz)IEC 60068-2-6
<b>IP degree of protection</b>	IP40 conforming to IEC 60529
<b>Shock resistance</b>	10 gn 11 ms) not operating IEC 60068-2-27 5 gn 11 ms) in operation IEC 60068-2-27
<b>Ambient air temperature for operation</b>	-40...158 °F (-40...70 °C) AC)

## Ordering and shipping details

<b>Category</b>	US10CP221127
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3389110257366
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	0.827 in (2.100 cm)
<b>Package 1 Width</b>	0.984 in (2.500 cm)
<b>Package 1 Length</b>	12.244 in (31.100 cm)
<b>Package 1 Weight</b>	0.459 oz (13.000 g)

<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	0.827 in (2.100 cm)
<b>Package 2 Width</b>	0.984 in (2.500 cm)
<b>Package 2 Length</b>	12.244 in (31.100 cm)
<b>Package 2 Weight</b>	5.573 oz (158.000 g)
<b>Unit Type of Package 3</b>	S01
<b>Number of Units in Package 3</b>	350
<b>Package 3 Height</b>	5.906 in (15.000 cm)
<b>Package 3 Width</b>	5.906 in (15.000 cm)
<b>Package 3 Length</b>	15.748 in (40.000 cm)
<b>Package 3 Weight</b>	12.833 lb(US) (5.821 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## 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-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 Yes

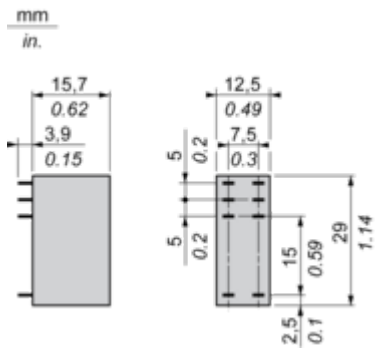
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> "

Dimensions Drawings

Dimensions

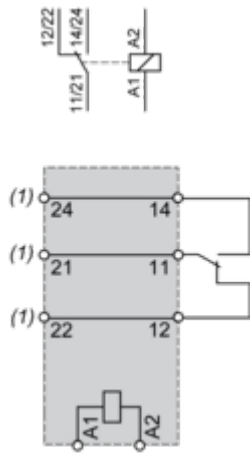
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Connections and Schema

Wiring Diagram

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(1) Terminals 11 and 21, 14 and 24, 12 and 22 must be linked for this references

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

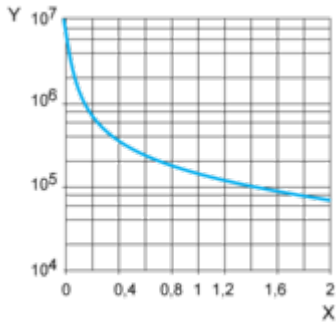
Performance Curves

**Electrical Durability of Contacts**

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

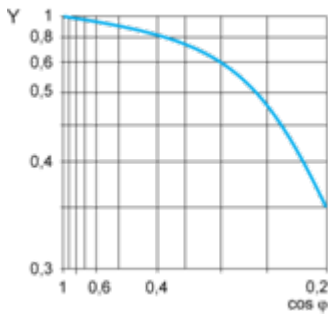
Resistive AC load



X Switching capacity (kVA)

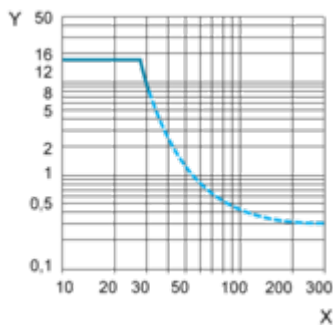
Y Durability (Number of operating cycles)

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.

Technical Illustration

Dimensions

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mm  
in.

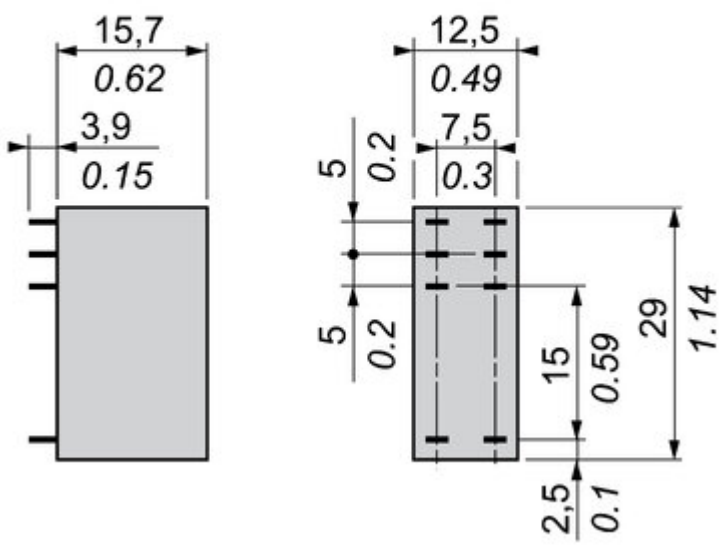


Image of product / Alternate images

Alternative

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