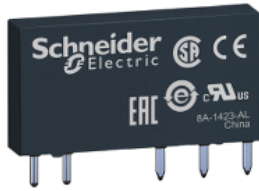


# Product data sheet

Specifications



## Slim interface plug in relay, Harmony, 6A, 1CO, standard, 24V DC

RSL1AB4BD

### Main

Range of product	Harmony Electromechanical Relays
Series name	Slim interface relay
Product or component type	Plug-in relay
Device short name	RSL
Contacts type and composition	1 C/O
Contact operation	Standard
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	6 A at -40...55 °C
Status LED	Without
Control type	Without push-button

### Complementary

Shape of pin	Flat (PCB type)
Average resistance	3390 Ohm at 23 °C +/- 15 %
Rated operational voltage limits	18...33.6 V DC
[Ui] rated insulation voltage	250 V conforming to EN/IEC 277 V conforming to cUL
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC
Contacts material	Silver alloy (AgSnO2)
[Ie] rated operational current	6 A (AC-1/DC-1) conforming to IEC/UL
Minimum switching current	100 mA
Maximum switching voltage	277 V
Minimum switching voltage	12 V
Maximum switching capacity	1500 VA 150 W
Minimum switching capacity	120 mW
Operating rate	<= 360 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	10000000 cycles
Electrical durability	60000 cycles, 6 A at 250 V, AC-1 C/O

<b>Operating time</b>	5 ms reset 12 ms
<b>Protection category</b>	RT III
<b>Test levels</b>	Level A group mounting
<b>Operating position</b>	Any position
<b>Width</b>	5 mm
<b>Height</b>	28 mm
<b>Depth</b>	18.5 mm
<b>Terminals description ISO n°1</b>	(11-12-14)OC (A1-A2)CO
<b>Net weight</b>	0.0054 kg
<b>Load current</b>	6 A at 250 V AC 0.5 mm mounting distance
<b>Average coil consumption</b>	0.17 W
<b>Drop-out voltage threshold</b>	$\geq 0.05 U_c$
<b>Safety reliability data</b>	B10d = 60000
<b>Mounting support</b>	Socket or PCB
<b>Device presentation</b>	Complete product

## Environment

<b>Dielectric strength</b>	1000 V AC between contacts 4000 V AC between coil and contact
<b>Standards</b>	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
<b>Product certifications</b>	CSA UL EAC
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Vibration resistance</b>	+/- 1 mm (f= 10...55 Hz) conforming to EN/IEC 60068-2-6
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Shock resistance</b>	5 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
<b>Ambient air temperature for operation</b>	-40...55 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	0.5 cm
<b>Package 1 Width</b>	1.5 cm
<b>Package 1 Length</b>	2.8 cm
<b>Package 1 Weight</b>	5 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	0.7 cm
<b>Package 2 Width</b>	2.4 cm
<b>Package 2 Length</b>	30.5 cm
<b>Package 2 Weight</b>	71 g

<b>Unit Type of Package 3</b>	S01
<b>Number of Units in Package 3</b>	500
<b>Package 3 Height</b>	15 cm
<b>Package 3 Width</b>	15 cm
<b>Package 3 Length</b>	40 cm
<b>Package 3 Weight</b>	3.913 kg

## Offer Sustainability

<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	Yes
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	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>

## Contractual warranty

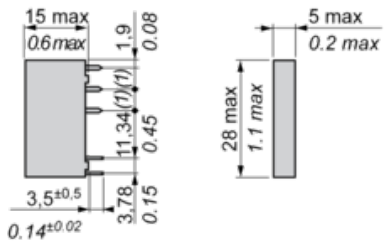
<b>Warranty</b>	18 months
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## Dimensions

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### Relay with Flat Pins (PCB Type)

mm  
in.



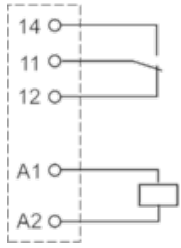
(1): 5.04 mm / 0.19 in.

## Wiring Diagram

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### Relay with Flat Pins (PCB Type)

1 C/O contact

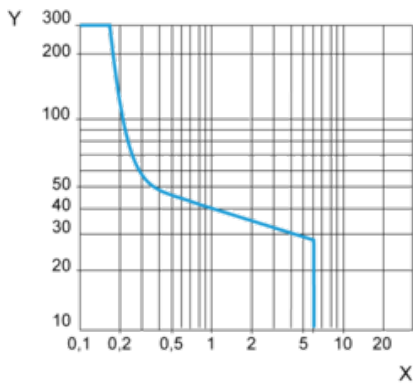


**Curves for Resistive Load**

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**Maximum Switching Capacity on DC Load**

Resistive load



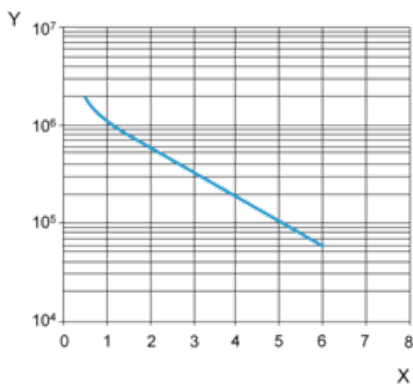
X DC Current

Y DC Voltage

**Electrical Durability**

Only tested at 6A/250VAC, projection for the rest

250 Vac Resistive load



X Switching current (A)

Y Cycles

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

**Recommended replacement(s)**