

# Product data sheet

Specifications



Harmony, Slim interface relay pre-assembled, 6 A, 1 CO, with LED, with protection circuit, spring terminals, 24 V AC/DC

RSL1PRBU

## Main

Range of product	Harmony Electromechanical Relays
Series name	Interface relay
Product or component type	Pre-assembled plug-in relay with socket
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	With
Shape of pin	Flat (PCB type)

## Complementary

Fixing mode	Plastic compression spring
Average resistance	3390 Ohm network: DC at 23 °C +/- 10 %
[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 (AgSnO <sub>2</sub> )
[Ie] rated operational current	6 A 1 C/O (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	<= 72000 cycles/hour no-load <= 360 cycles/hour under load
Mechanical durability	10000000 cycles
Electrical durability	60000 cycles for resistive load, 6 A at 250 V, AC-1
Operating time	5 ms reset

	12 ms
<b>Marking</b>	CE
<b>Protection category</b>	RT III
<b>Test levels</b>	Level A group mounting
<b>Operating position</b>	Any position
<b>Height</b>	78.6 mm
<b>Width</b>	6.2 mm
<b>Depth</b>	101 mm
<b>Terminals description ISO n°1</b>	(A1-A2)CO (11-12-14)OC
<b>Sale per indivisible quantity</b>	10
<b>Net weight</b>	0.029 kg
<b>Load current</b>	6 A at 250 V AC 0.5 mm mounting distance
<b>Average coil consumption</b>	0.17 W, DC
<b>Drop-out voltage threshold</b>	>= 0.05 U <sub>c</sub>
<b>Contact terminal arrangement</b>	Separate
<b>Connections - terminals</b>	Spring terminals, 1 x 0.2...1 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) flexible with cable end Spring terminals, 1 x 0.2...1 x 1.5 mm <sup>2</sup> (AWG 24...AWG 16) solid without cable end
<b>Safety reliability data</b>	B10d = 60000
<b>Clamping force</b>	10...40 N
<b>Control type</b>	Without push-button
<b>Mounting support</b>	35 mm symmetrical DIN rail
<b>Device presentation</b>	Complete product

## Environment

<b>Input voltage</b>	24 V AC/DC (input voltage limit: 21.6...28.8 V)
<b>Dielectric strength</b>	1000 V AC between contacts 4000 V AC between coil and contact
<b>Standards</b>	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
<b>Product certifications</b>	UL CSA GOST
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Vibration resistance</b>	10 gn, amplitude = +/- 1 mm (f = 10...150 Hz)10 cycles not operating conforming to EN/IEC 60068-2-6 5 gn, amplitude = +/- 1 mm (f = 10...150 Hz)10 cycles in operation conforming to EN/IEC 60068-2-6
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Shock resistance</b>	10 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27 5 gn (duration = 11 ms) for not operating 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 Weight</b>	28.0 g
<b>Package 1 Height</b>	0.6 cm
<b>Package 1 width</b>	8.0 cm

Package 1 Length	10.3 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Weight	306.0 g
Package 2 Height	8.6 cm
Package 2 width	7.1 cm
Package 2 Length	10.7 cm
Unit Type of Package 3	S03
Number of Units in Package 3	300
Package 3 Weight	9.717 kg
Package 3 Height	30.0 cm
Package 3 width	30.0 cm
Package 3 Length	40.0 cm

## Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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>

## Contractual warranty

Warranty	18 months
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Dimensions

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