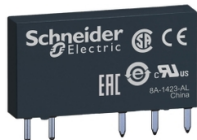


Product datasheet

Specifications



Harmony Electromechanical Relays, Slim interface plug in relay, 6A, 1CO, standard, 48V DC

RSL1AB4ED

⚠ Discontinued on: 18 May 2024

⚠ To be end-of-service on: 15 Aug 2024

⚠ Discontinued

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	48 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	10600 Ohm at 23 °C +/- 15 %
Rated Operational Voltage Limits	36...67.2 V DC
[Uij] Rated Insulation Voltage	250 V conforming to 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	10 mA
Maximum Switching Voltage	277 V
Minimum Switching Voltage	12 V
Maximum Switching Capacity	1500 VA 50 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

Operating Time	5 ms reset 12 ms
Protection Category	RT III
Test Levels	Level A group mounting
Operating Position	Any position
Width	5 mm
Height	28 mm
Depth	18.5 mm
Terminals Description Iso N°1	(A1-A2)CO (11-12-14)OC
Net Weight	0.0054 kg
Load Current	6 A at 250 V AC 0.5 mm mounting distance
Average Coil Consumption	0.21 W
Drop-Out Voltage Threshold	$\geq 0.05 U_c$
Safety Reliability Data	B10d = 60000
Mounting Support	Socket or PCB
Device Presentation	Complete product

Environment

Dielectric Strength	1000 V AC between contacts 4000 V AC between coil and contact
Standards	CSA C22.2 No 14 IEC 61810-1 UL 508
Product Certifications	UL EAC CSA
Ambient Air Temperature For Storage	-40...70 °C
Vibration Resistance	+/- 1 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
Ip Degree Of Protection	IP40 conforming to IEC 60529
Shock Resistance	5 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ambient Air Temperature For Operation	-40...55 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.500 cm
Package 1 Width	1.500 cm
Package 1 Length	2.800 cm
Package 1 Weight	5.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	0.700 cm
Package 2 Width	2.400 cm

Package 2 Length	30.500 cm
Package 2 Weight	70.000 g
Unit Type Of Package 3	S01
Number Of Units In Package 3	500
Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	3.910 kg

Contractual warranty

Warranty	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-CO₂ 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

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Toxic Free

✓ Phenolic Free Solution

Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

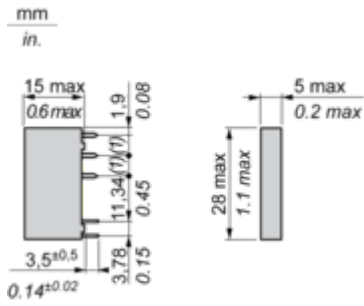
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

Dimensions

Relay with Flat Pins (PCB Type)



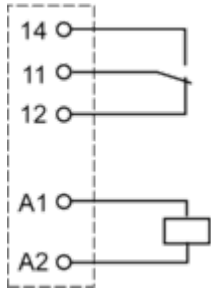
(1): 5.04 mm / 0.19 in.

Connections and Schema

Wiring Diagram

Relay with Flat Pins (PCB Type)

1 C/O contact

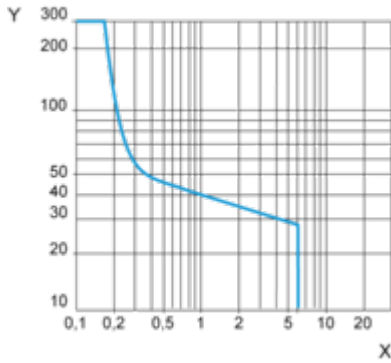


Performance Curves

Curves for Resistive Load

Maximum Switching Capacity on DC Load

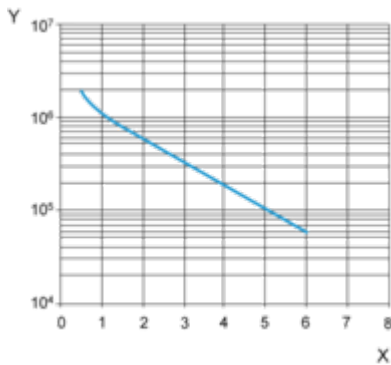
Resistive load



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.