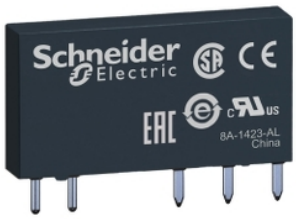
Product data sheet
Characteristics

RSL1GB4JD
slim interface plug-in relay - Zelio RSL - 1 C/O low level - 12 V DC - 6 A



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	Low level
[Uc] control circuit voltage	12 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	848 Ohm at 23 °C +/- 10 %
Rated operational voltage limits	9...16.8 V DC
[Ui] rated insulation voltage	250 V conforming to EN/IEC 277 V conforming to cUL
[Uimp] rated impulse withstand voltage	IEC 6 kV
Contacts material	Silver alloy - gold plated (AgSnO2)
[Ie] rated operational current	6 A (AC-1/DC-1) conforming to IEC/UL
Minimum switching current	1 mA
Maximum switching voltage	277 V
Minimum switching voltage	24 V
Maximum switching capacity	1500 VA 50 W
Minimum switching capacity	24 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	(11-12-14)OC (A1-A2)CO
Net weight	0.0054 kg
Load current	6 A at 250 V AC 0.5 mm mounting distance
Average coil consumption	0.17 W
Drop-out voltage threshold	>= 0.05 Uc
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 EN/IEC 61810-1 UL 508
Product certifications	UL CSA EAC
Ambient air temperature for storage	-40…70 °C
Vibration resistance	+/- 1 mm (f= 10…55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	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
Ambient air temperature for operation	-40…55 °C

Packing Units

Package 1 Weight	0.005 kg
Package 1 Height	0.050 dm
Package 1 width	0.190 dm
Package 1 Length	0.280 dm

Offer Sustainability

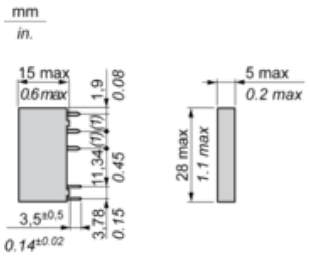
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months

Dimensions

Relay with Flat Pins (PCB Type)

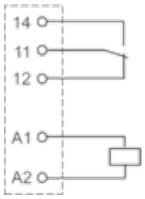


(1): 5.04 mm / 0.19 in.

Wiring Diagram

Relay with Flat Pins (PCB Type)

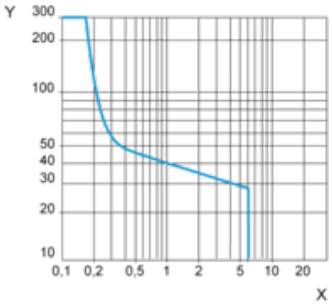
1 C/O contact



Curves for Resistive Load

Maximum Switching Capacity on DC Load

Resistive load



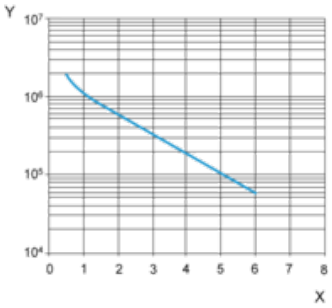
X DC Current

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.