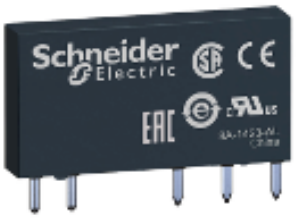
Product data sheet
Characteristics

RSL1AB4BD
slim interface plug in relay, Harmony Electromechanical Relays, 6A, 1CO, without lockable test button, standard, 24V DC



Main

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

Complementary

[Uimp] rated impulse withstand voltage	6 KV conforming to IEC
[Ie] rated operational current	6 A (AC-1/DC-1) conforming to IEC/UL
Minimum switching current	100 MA
Minimum switching voltage	12 V
Minimum switching capacity	120 mW
Rated operational voltage limits	18...33.6 V DC
[Ui] rated insulation voltage	250 V conforming to IEC 277 V conforming to cUL
Operating time	5 ms reset 12 ms
Maximum switching voltage	277 V
Drop-out voltage threshold	>= 0.05 Uc
Load current	6 A at 250 V AC 0.5 mm mounting distance
Maximum switching capacity	1500 VA 150 W
Terminals description ISO n°1	(11-12-14)OC (A1-A2)CO
Average resistance	3390 Ohm at 23 °C +/- 15 %
Average coil consumption	0.17 W
Mechanical durability	10000000 Cycles
Electrical durability	60000 Cycles, 6 A at 250 V, AC-1 C/O
Safety reliability data	B10d = 60000
Operating rate	<= 360 cycles/hour under load <= 18000 cycles/hour no-load
Protection category	RT III

Mounting support	Socket or PCB
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver alloy (AgSnO2)
Shape of pin	Flat (PCB type)
Width	5 Mm
Height	28 Mm
Depth	18.5 Mm
Net weight	0.0054 Kg

Environment

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

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 Cm
Package 3 Width	15 Cm
Package 3 Length	40 Cm
Package 3 Weight	3.913 Kg

Offer Sustainability

Recyclability potential, in %	70
Total lifecycle Carbon footprint	3 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.1685459645
Carbon footprint of the manufacturing phase [A1 to A3]	0.2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0006967161
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0000326507
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3.1280096
REACh free of SVHC	Yes

Carbon footprint of the use phase [B2, B3, B4, B6]	3 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.0013780854
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Toxic free	Yes
Phenolic free solution	Yes
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	3
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is k
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised