Product datasheet

Specifications



Interface plug-in relay, 8 A, 2 CO, 24 V DC

Local distributor code:

389836351 RSB2A080BD

EAN Code: 3389110252361

Main

Range of product	Harmony Electromechanical Relays
Series name	RSB series
Product or component type	Plug-in relay
Relay type	Interface relay
Contacts type and composition	2 C/O
status LED	Without
[Uc] control circuit voltage	24 V DC
Control type	Without lockable test button
[Ithe] conventional enclosed thermal current	8 A at -40…40 °C

Complementary

Average resistance	1440 Ohm network: DC at 20 °C +/- 10 %
[Ue] rated operational voltage	19.2...26.4 V DC
[Uimp] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
[Ie] rated operational current	4 A (AC-1/DC-1) NC conforming to IEC 8 A (AC-1/DC-1) NO conforming to IEC
[Ui] rated insulation voltage	400 V conforming to IEC 60947
Maximum switching voltage	300 V DC conforming to IEC
Drop-out voltage threshold	>= 0.1 Uc DC
Load current	8 A at 250 V AC 8 A at 28 V DC
minimum switching current	10 mA
Maximum switching capacity	2000 VA/224 W
minimum switching voltage	12 V
Minimum switching capacity	120 mW at 10 mA, 12 V
Operating time	20 ms operating 20 ms reset
Mechanical durability	30000000 cycles
Electrical durability	100000 cycles, 8 A at 250 V, AC-1 NO 100000 cycles, 4 A at 250 V, AC-1 NC
Safety reliability data	B10d = 100000
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Average coil consumption	0.45 W DC

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Removable legend	Without
Protection category	RT I
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Sale per indivisible quantity	10
Contacts material	Silver alloy (AgNi)
Shape of pin	Flat (PCB type)
Net weight	0.014 kg
Compatibility code	RSB

Environment

Dielectric strength	1000 V AC between contacts 2500 V AC between poles 5000 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…85 °C (DC)
Standards	UL 508 CSA C22.2 No 14 IEC 61810-1
Product certifications	UL CSA EAC
Marking	CE
Ambient air temperature for storage	-40…85 °C
Shock resistance	10 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	1.800 cm
Package 1 Width	2.100 cm
Package 1 Length	3.000 cm
Package 1 Weight	13.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.600 cm
Package 2 Width	2.900 cm
Package 2 Length	33.000 cm
Package 2 Weight	143.000 g
Unit Type of Package 3	S01
Number of Units in Package 3	350

Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.050 kg

Logistical informations

Country of origin	AT

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**5 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.1 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**5 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**45b41055-6c52-408d-9c0c-5c663b810f29**
EU RoHS Directive	**Compliant**
REACh Regulation	**Free of Substances of Very High Concern above the threshold**

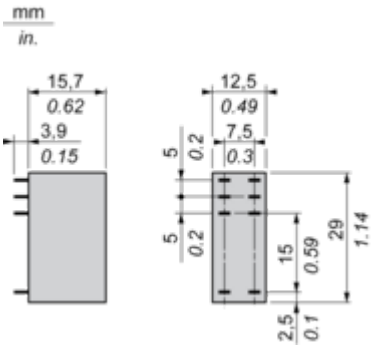
Use Again

Repack and remanufacture

Recyclability potential, in %	**75**
End of life manual availability	**No need of specific recycling operations**
Take-back	**No**

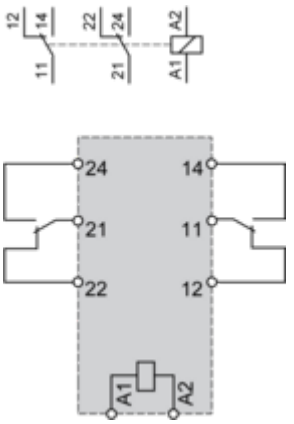
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

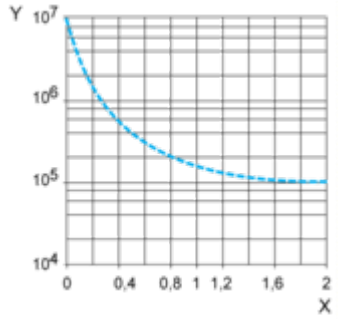


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

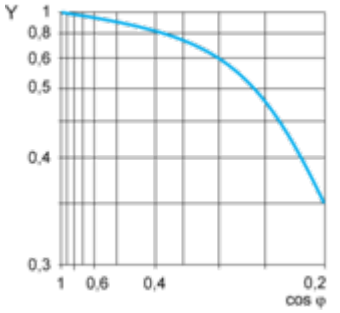
Performance Curves

Electrical Durability of Contacts

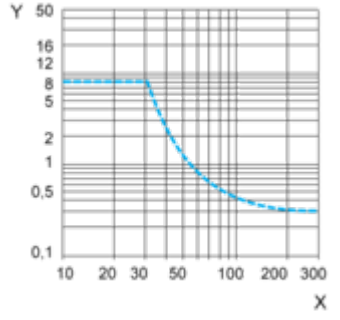
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



X Switching capacity (kVA)
Y Durability (Number of operating cycles)
Reduction coefficient for inductive AC load (depending on power factor cos ϕ)



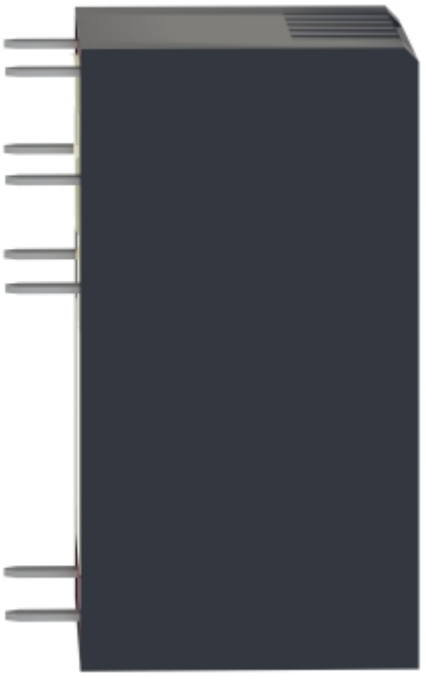
Y Reduction coefficient (A)
Maximum switching capacity on resistive DC load



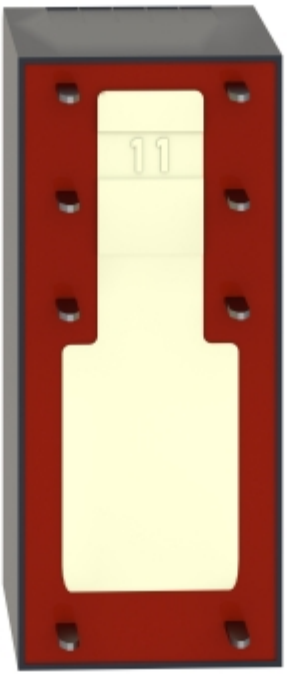
X Voltage DC
Y Current DC
Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Image of product / Alternate images

Alternative






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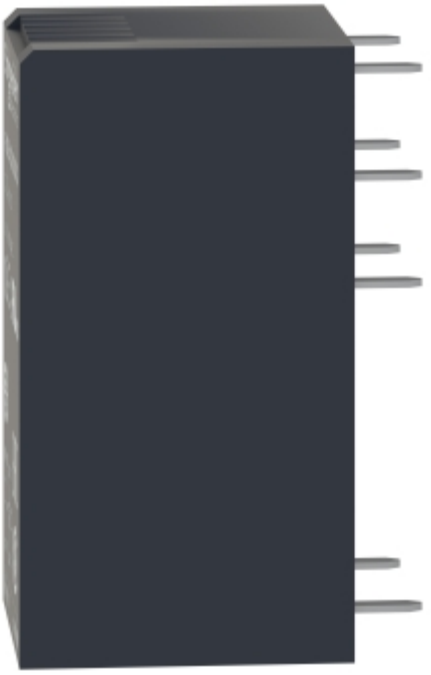


Image of product in real life situation

