

Product datasheet

Specifications



interface plug-in relay, Harmony
electromechanical relays, 8A, 2CO,
24V DC

RSB2A080BD

EAN Code: 3389110252361

Price: 4,01 EUR

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	16.8...36 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

Rates duty January 2016

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

Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Average coil consumption	0.45 W DC
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	142.000 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	5.180 kg

Contractual warranty

Warranty	18 months
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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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5
Environmental Disclosure	Product Environmental Profile

Use Better

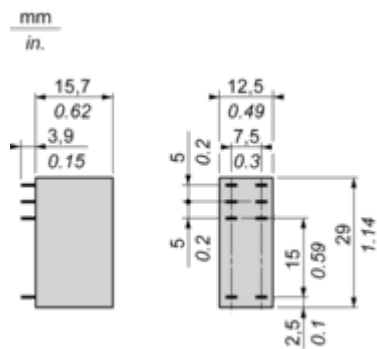
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	45b41055-6c52-408d-9c0c-5c663b810f29
REACH Regulation	REACH Declaration

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

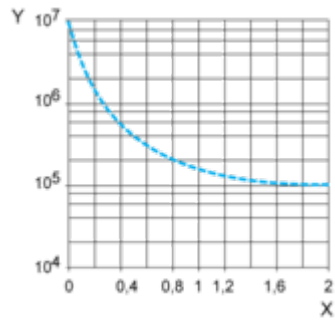


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

Electrical Durability of Contacts

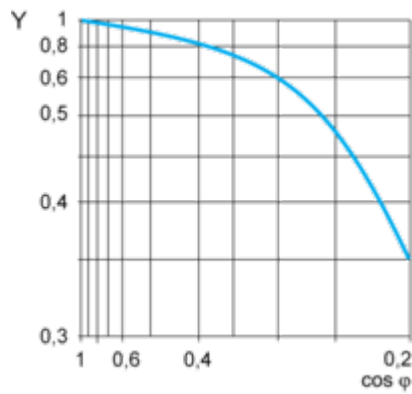
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



X Switching capacity (kVA)

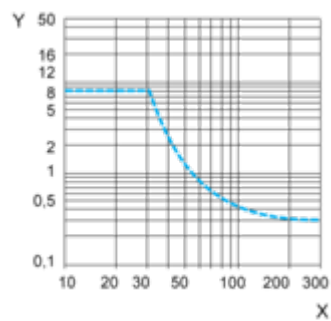
Y Durability (Number of operating cycles)

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.

Technical Illustration

Dimensions

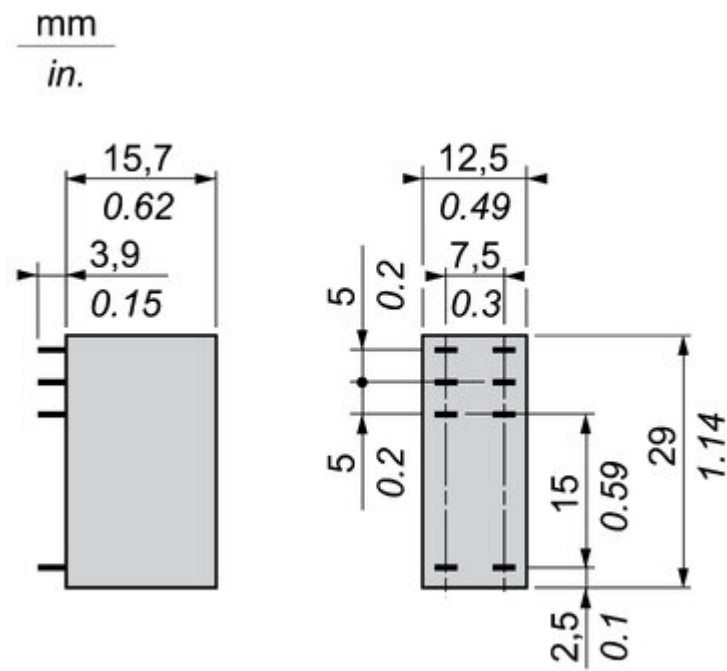


Image of product / Alternate images

Alternative



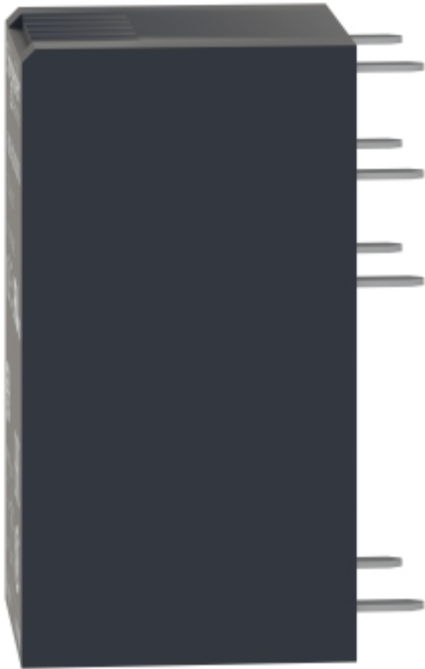
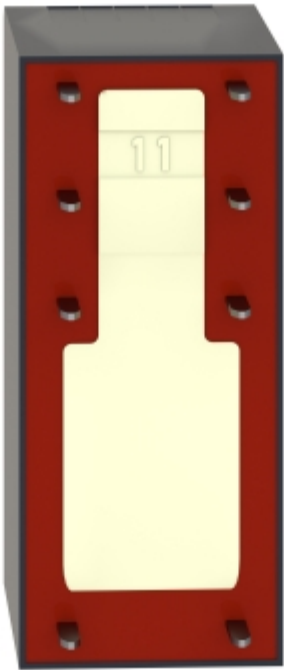


Image of product in real life situation

