

Product datasheet

Specifications



Interface plug-in relay, 8 A, 2 CO, 230 V AC

RSB2A080P7

Main

Range of product	Harmony Electromechanical Relays
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RSB
Contacts type and composition	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	230 V AC 50/60 Hz
[Ithe] conventional enclosed thermal current	8 A at -40...40 °C
status LED	Without
control type	Without push-button

Complementary

Shape of pin	Flat (PCB type)
average coil resistance	33000 Ohm network: AC at 20 °C +/- 10 %
[Ue] rated operational voltage	184...345 V AC 50/60 Hz
[Ui] rated insulation voltage	400 V conforming to IEC 60947
[Uimp] rated impulse withstand voltage	3.6 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (AgNi)
[Ie] rated operational current	4 A (AC-1/DC-1) NC conforming to IEC 8 A (AC-1/DC-1) NO conforming to IEC
minimum switching current	10 mA
Maximum switching voltage	300 V DC conforming to IEC
minimum switching voltage	12 V
Maximum switching capacity	2000 VA/224 W
resistive rated load	8 A at 250 V AC 8 A at 28 V DC
Minimum switching capacity	120 mW at 10 mA, 12 V
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles, 8 A at 250 V, AC-1 NO 100000 cycles, 4 A at 250 V, AC-1 NC

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Operating time	20 ms operating 20 ms reset
average coil consumption	0.75 VA AC
Drop-out voltage threshold	$\geq 0.15 U_c$ AC
Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
Product weight	0.014 kg
Sale per indivisible quantity	10
Device presentation	Complete product

Environment

Dielectric strength	1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact
Standards	CSA C22.2 No 14 UL 508 IEC 61810-1
Product certifications	CSA EAC UL
Ambient air temperature for storage	-40...85 °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	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
Ambient air temperature for operation	-40...70 °C (AC)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.200 cm
Package 1 Width	2.000 cm
Package 1 Length	2.900 cm
Package 1 Weight	13.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	1.700 cm
Package 2 Width	2.500 cm
Package 2 Length	31.100 cm
Package 2 Weight	146.000 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
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Package 3 Length	40.000 cm
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Package 3 Weight	5.240 kg
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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)	12
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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China RoHS Regulation	China RoHS declaration
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Use Again

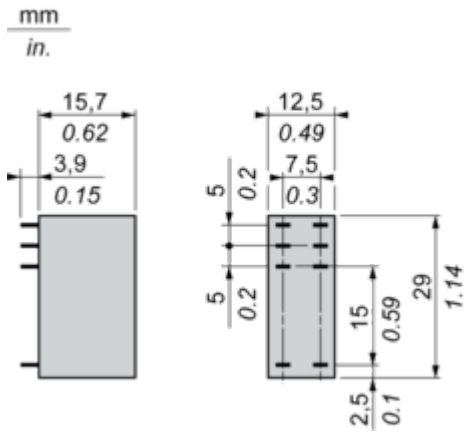
Repack and remanufacture

WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Take-back	No
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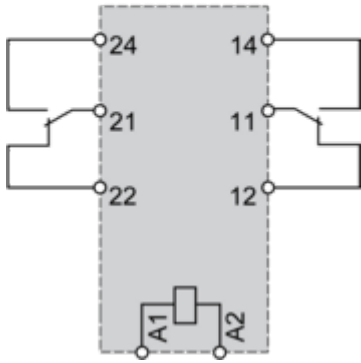
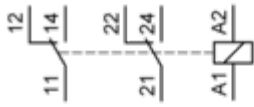
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



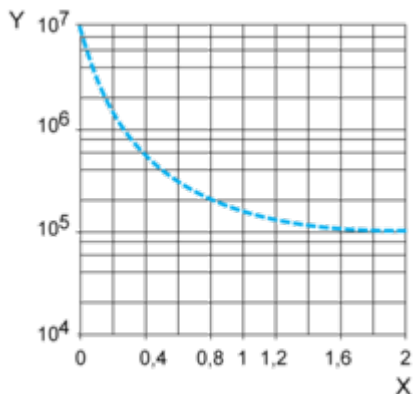
NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

Electrical Durability of Contacts

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

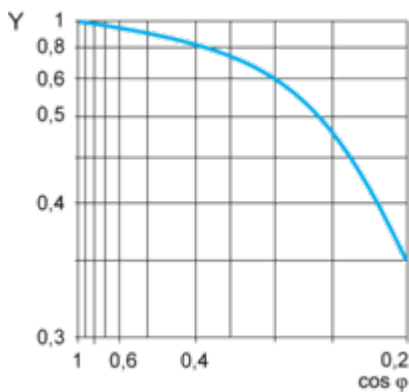
Resistive AC load



X Switching capacity (kVA)

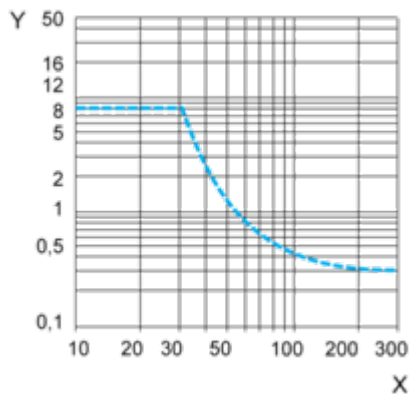
Y Durability (Number of operating cycles)

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

mm
in.

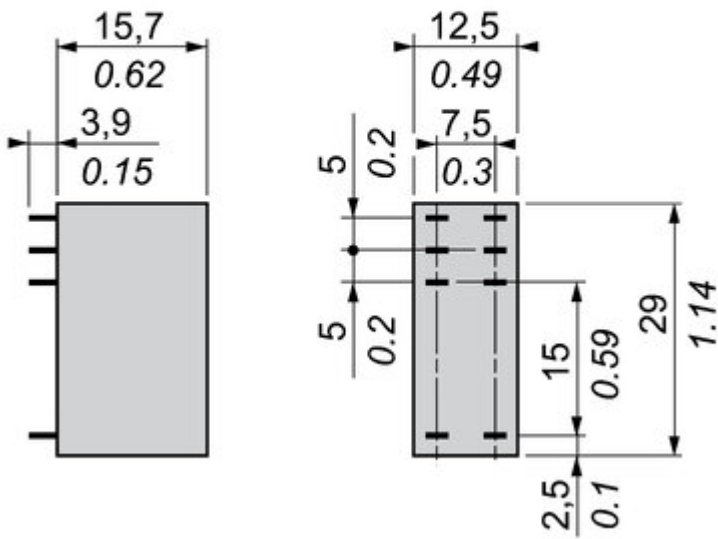


Image of product / Alternate images

Alternative

