

Product data sheet

Specifications



Interface plug-in relay, Harmony
EMR, pre-assembled, 8A, 2CO, with
LED, with protection circuit, 230V
AC, 32500Ohm coil resistance

RSB2A080P7PV

**Product availability: Non-Stock - Not normally stocked in
distribution facility**

Main

Range of Product	Harmony Electromechanical Relays
Series name	RSB series
Product or Component Type	Pre-assembled plug-in relay with socket
Relay Type	Interface relay
Contacts type and composition	2 C/O
Contact operation	Standard
Status LED	With
[Uc] control circuit voltage	24 V AC 50/60 Hz
Control Type	Without lockable test button
[Ithe] conventional enclosed thermal current	8 A -40...104 °F (-40...40 °C)

Complementary

Average resistance	32500 Ohm AC 20 °C +/- 15 %
[Ue] rated operational voltage	184...253 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	3.6 kV IEC 61000-4-5
[Ie] rated operational current	4 A AC-1/DC-1) NC IEC 8 A AC-1/DC-1) NO IEC
[Ui] rated insulation voltage	400 V IEC 60947
Maximum switching voltage	300 V DC IEC
Drop-out voltage threshold	>= 0.15 Uc AC
Load current	8 A 250 V AC 8 A 28 V DC
minimum switching current	10 mA
Maximum switching capacity	2000 VA AC 224 W DC
minimum switching voltage	12 V
Minimum switching capacity	120 mW 10 mA, 12 V
Operating time	20 ms operating 20 ms reset
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
Safety reliability data	B10d = 100000

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

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	0.75 VA AC
Contact terminal arrangement	Separate
Connections - terminals	Connector, 1 x 0.25...1 x 2.5 mm² AWG 22...AWG 14) flexible with cable end Connector, 2 x 0.25...2 x 1 mm² AWG 22...AWG 17) flexible with cable end Connector, 1 x 0.5...1 x 2.5 mm² AWG 20...AWG 14) solid without cable end Connector, 2 x 0.5...2 x 1.5 mm² AWG 20...AWG 16) solid without cable end
Torque Value	7.08 lbf.in (0.8 N.m) 7.0 lbf.in (0.8 N.m)
Protection category	RT I
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Sale per indivisible quantity	30
Contacts material	Silver alloy (AgNi)
Shape of pin	Flat (PCB type)
Product Weight	0.126 lb(US) (0.057 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	IP20 conforming to IEC 60529
Ambient air temperature for operation	-40...158 °F (-40...70 °C) AC)
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508 IEC 61984
Product Certifications	CE UL CSA EAC
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Shock resistance	10 gn 11 ms) not operating IEC 60068-2-27 5 gn 11 ms) in operation IEC 60068-2-27

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3606489562793
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	0.630 in (1.600 cm)
Package 1 Width	2.953 in (7.500 cm)
Package 1 Length	3.346 in (8.500 cm)
Package weight(Lbs)	1.975 oz (56.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	30
Package 2 Height	3.346 in (8.500 cm)
Package 2 Width	7.244 in (18.400 cm)
Package 2 Length	10.787 in (27.400 cm)
Package 2 Weight	4.438 lb(US) (2.013 kg)
Unit Type of Package 3	S03
Number of Units in Package 3	180
Package 3 Height	11.811 in (30.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	28.213 lb(US) (12.797 kg)

Contractual warranty

Warranty (in months)	18
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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	
Total lifecycle Carbon footprint	11 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.5 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]	10 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACH Regulation	Free of Substances of Very High Concern above the threshold
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Longer

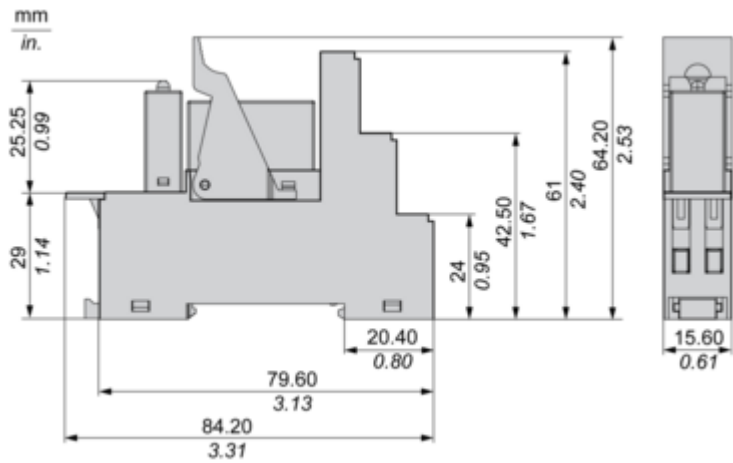
 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	75
Circularity Profile	No need of specific recycling operations
Take-back	No

Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

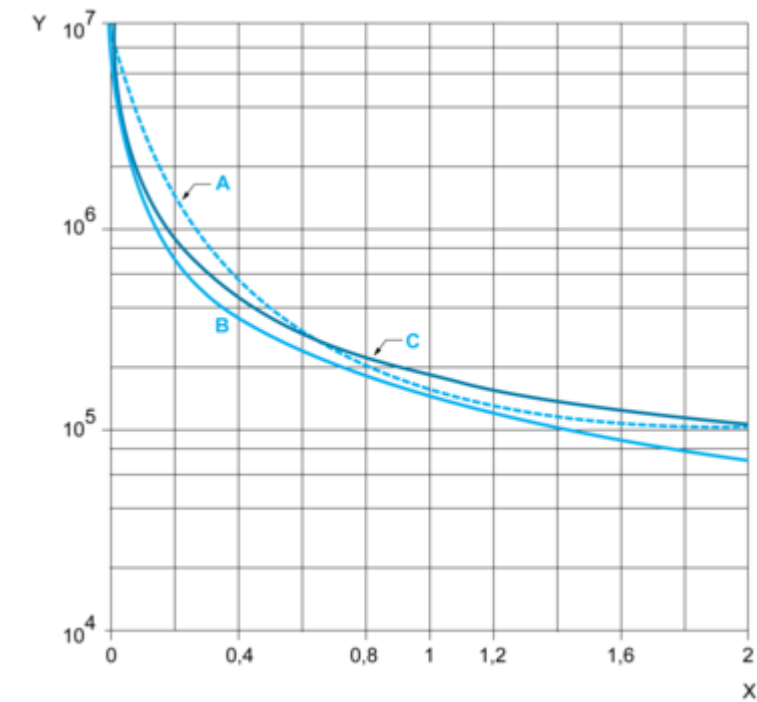


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

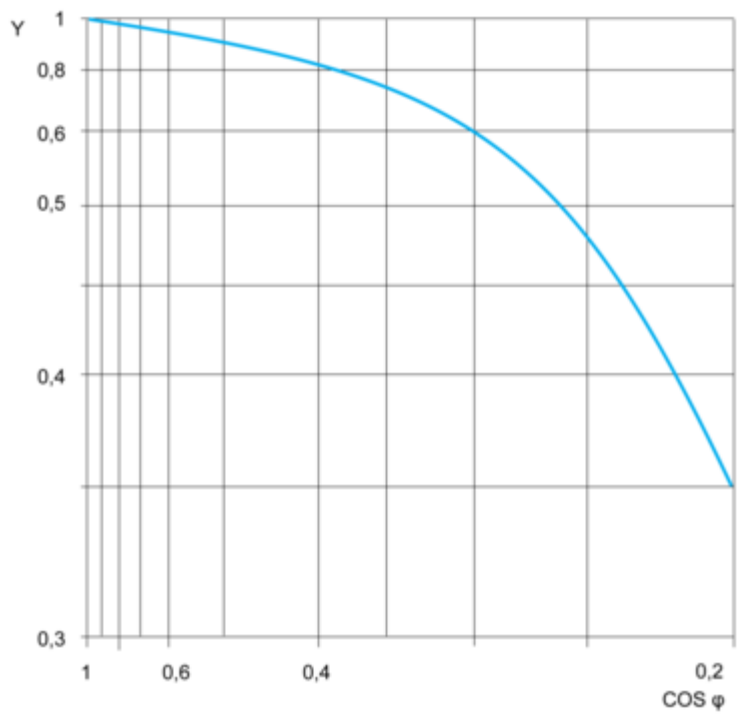
Electrical Durability of Contacts

Durability (Inductive Load) = Durability (Resistive Load) x Reduction Coefficient.
Resistive AC Load



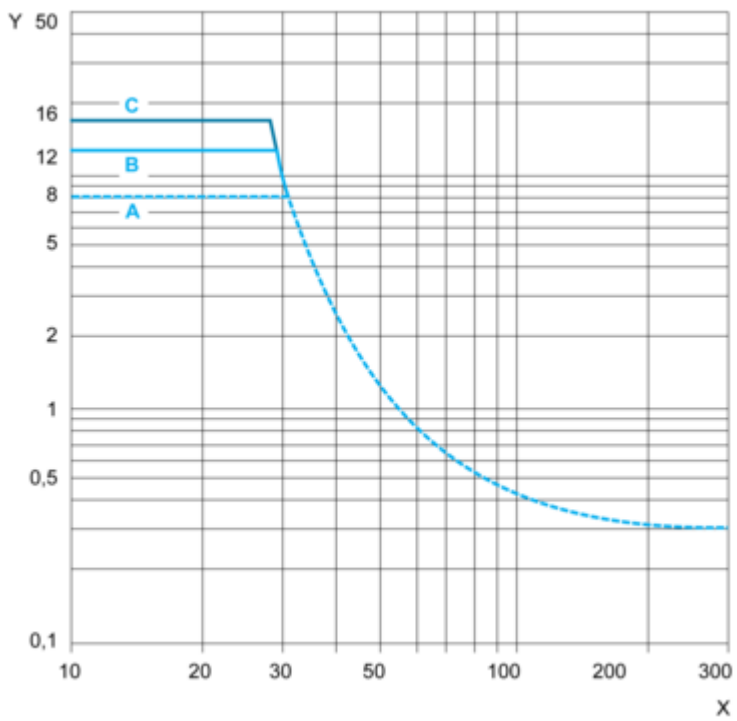
(y) Durability (Number of operating cycles)
(x) Switching capacity (kVA)
A : RSB2A080●●
B : RSB1A160●●
C : RSB1A120●●

Reduction Coefficient for Inductive AC Load (Depending on Power Factor cos φ)



(y) Reduction coefficient (A)

Maximum Switching Capacity on Resistive DC Load



(y) Current DC

(x) Voltage DC

A : RSB2A080●●

B : RSB1A160●●

C : RSB1A120●●

NOTE: These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Technical Illustration

Dimensions

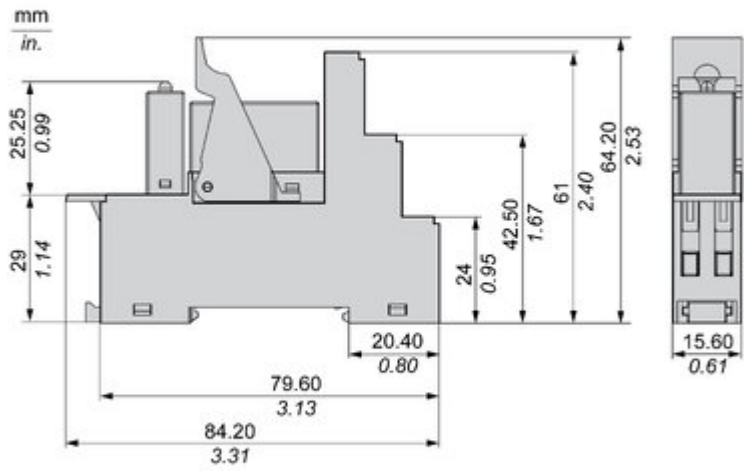
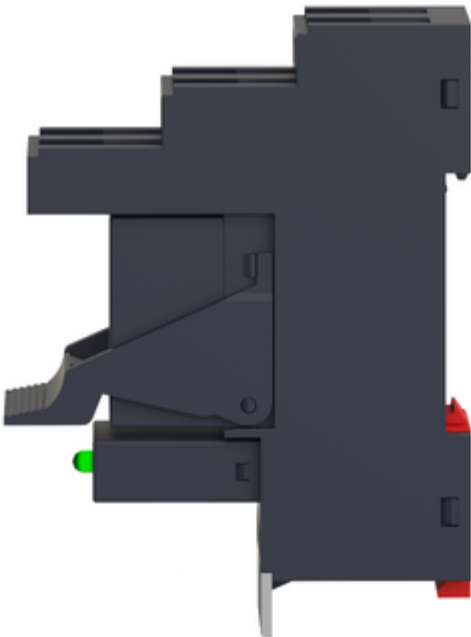
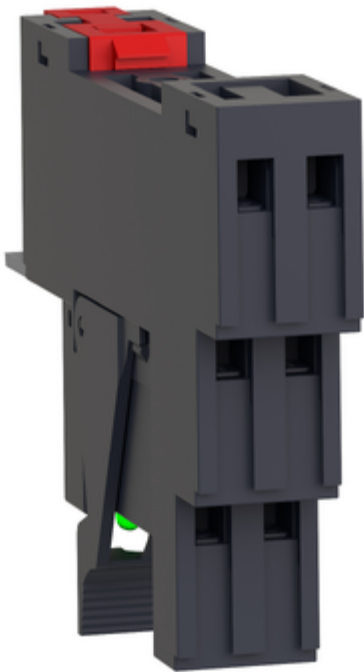


Image of product / Alternate images

Alternative





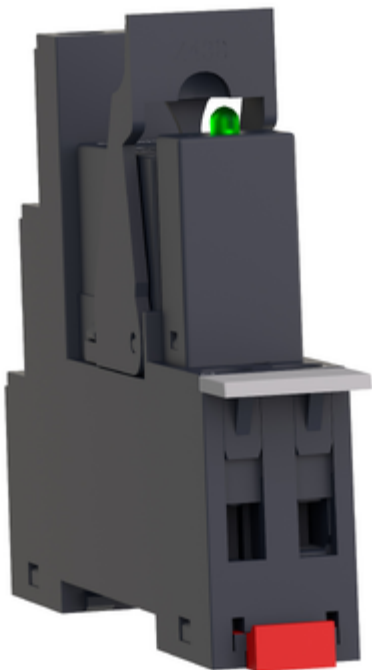
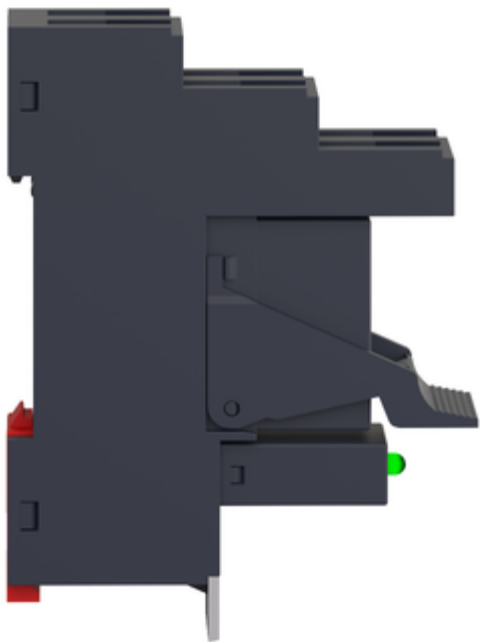


Image of product in real life situation

