Product data sheet

Specifications





interface plug-in relay, Harmony electromechanical relays, 8A, 2CO, 240V AC

RSB2A080U7

! Discontinued on: Aug 15, 2024



Product availability: Stock - Normally stocked in distribution facility

Price*: 5.12 USD

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	240 V AC 50/60 Hz	
[Ithe] conventional enclosed thermal current	8 A -40.0000000000104.0000000000 °F (-4040 °C)	
Status LED	Without	
Control Type	Without push-button	

Complementary

Shape of pin	Flat (PCB type)	
average coil resistance	33000 Ohm AC 20 °C +/- 10 %	
[Ue] rated operational voltage	192360 V AC 50/60 Hz	
[Ui] rated insulation voltage	400 V IEC 60947	
[Uimp] rated impulse withstand voltage	3.6 kV IEC 61000-4-5	
Contacts material	Silver alloy (AgNi)	
[le] rated operational current	4 A AC-1/DC-1) NC IEC 8 A AC-1/DC-1) NO IEC	
Minimum switching current	10 mA	
Maximum switching voltage	300 V DC IEC	
minimum switching voltage	12 V	
Maximum switching capacity	2000 VA/224 W	
resistive rated load	8 A 250 V AC 8 A 28 V DC	
Minimum switching capacity	120 mW 10 mA, 12 V	
Operating rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load	

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

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
Operating time	20 ms operating 20 ms reset
marking	CE
average coil consumption	0.75 VA AC
Drop-out voltage threshold	>= 0.15 Uc AC
Safety reliability data	B10d = 100000
Protection category	RTI
Test levels	Level A group mounting
Operating position	Any position
Net Weight	0.031 lb(US) (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 IEC 61810-1 UL 508	
Product Certifications	EAC UL CSA	
Ambient Air Temperature for Storage	-40.000000000185.0000000000 °F (-4085 °C)	
Vibration resistance	+/- 1 mm 1055 Hz)IEC 60068-2-6	
IP degree of protection	IP40 conforming to IEC 60529	
Shock resistance	10 gn 11 ms) not operating IEC 60068-2-27 5 gn 11 ms) in operation IEC 60068-2-27	
Ambient air temperature for operation	-40.0000000000158.0000000000 °F (-4070 °C) AC)	

Ordering and shipping details

Category	US10CP221127	
Discount Schedule	0CP2	
GTIN	3389110256635	
Returnability	Yes	
Country of origin	AT	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	0.7 in (1.7 cm)	
Package 1 Width	1.0 in (2.5 cm)	
Package 1 Length	1.2 in (3.1 cm)	

Package 1 Weight	0.6 oz (16 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	0.7 in (1.8 cm)
Package 2 Width	1.02 in (2.6 cm)
Package 2 Length	12.2 in (31 cm)
Package 2 Weight	5.7 oz (162 g)
Unit Type of Package 3	S01
Number of Units in Package 3	350
Package 3 Height	5.9 in (15 cm)
Package 3 Width	5.9 in (15 cm)
Package 3 Length	15.7 in (40 cm)
Package 3 Weight	13.078 lb(US) (5.932 kg)

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

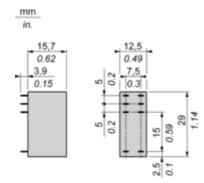
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
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

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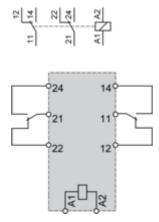
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



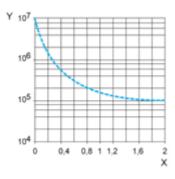
NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

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Performance Curves

Electrical Durability of Contacts

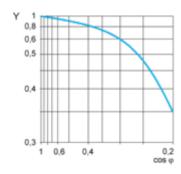
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

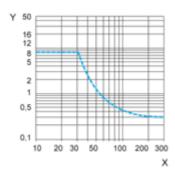
Y Durability (Number of operating cycles)

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.