

interface plug in relay, Harmony Electromechanical Relays, 16A, 1CO, 120V AC

RSB1A160F7

Product availability: Stock - Normally stocked in distribution facility

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	1 C/O	
Status LED	Without	
[Uc] control circuit voltage	120 V AC 50/60 Hz	
Control Type	Without lockable test button	
[Ithe] conventional enclosed thermal current	16 A -40104 °F (-4040 °C)	

Complementary

Average resistance	8360 Ohm AC 20 °C +/- 10 %	
[Ue] rated operational voltage	96180 V AC 50/60 Hz	
[Uimp] rated impulse withstand voltage	3.6 kV IEC 61000-4-5	
[le] rated operational current	16 A AC-1/DC-1) NO IEC 8 A AC-1/DC-1) NC 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	16 A 250 V AC 16 A 28 V DC	
minimum switching current	10 mA	
Maximum switching capacity	4000 VA/448 W	
minimum switching voltage	12 V	
Minimum switching capacity	120 mW 10 mA, 12 V	
Operating time	20 ms operating 20 ms reset	
Mechanical durability	10000000 cycles	
Electrical durability	100000 cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC	
Safety reliability data	B10d = 100000	
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.

Average coil consumption	0.75 VA AC	
Removable legend	Without	
Protection category	RTI	
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	0.031 lb(US) (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= 1055 Hz) conforming to IEC 60068-2-6	
IP degree of protection	IP40 conforming to IEC 60529	
Ambient air temperature for operation	-40158 °F (-4070 °C) AC)	
Standards	UL 508 IEC 61810-1 CSA C22.2 No 14	
Product Certifications	EAC CSA UL	
Ambient Air Temperature for Storage	-40185 °F (-4085 °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	3389110257465	
Returnability	Yes	
Country of origin	US	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.67 in (1.7 cm)
Package 1 Width	0.98 in (2.5 cm)
Package 1 Length	12.24 in (31.1 cm)
Package 1 Weight	0.5 oz (13.0 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10

Package 2 Height	0.67 in (1.7 cm)
Package 2 Width	0.98 in (2.5 cm)
Package 2 Length	12.24 in (31.1 cm)
Package 2 Weight	5.6 oz (160.0 g)
Unit Type of Package 3	S01
Number of Units in Package 3	350
Package 3 Height	5.91 in (15.0 cm)
Package 3 Width	5.91 in (15.0 cm)
Package 3 Length	15.75 in (40.0 cm)
Package 3 Weight	12.763 lb(US) (5.789 kg)

Contractual warranty

Warranty 18 months



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 CO2 eq, Total Life cycle)	8
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)
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 Again

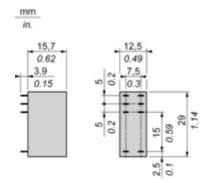
○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Product data sheet

RSB1A160F7

Dimensions Drawings

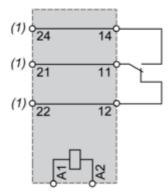
Dimensions



Connections and Schema

Wiring Diagram





(1) Terminals 11 and 21,14 and 24,12 and 22 must be linked for this references

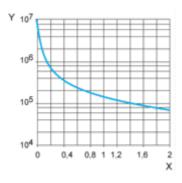
NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

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Performance Curves

Electrical Durability of Contacts

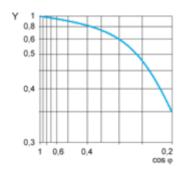
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



X Switching capacity (kVA)

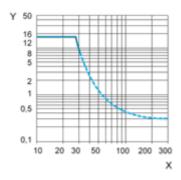
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



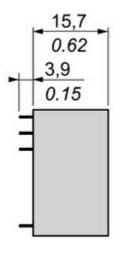
X Voltage DC

Y Current DC

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

Technical Illustration

Dimensions



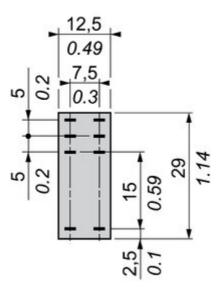
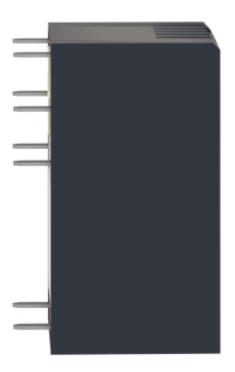


Image of product / Alternate images

Alternative







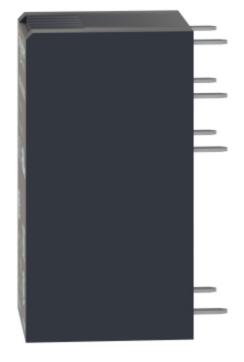


Image of product in real life situation

