

Interface plug in relay with socket, Harmony, 8A, 2CO, 120V AC

RSB2A080F7S

Discontinued on: Jan 31, 2023

① Discontinued

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	120 V AC
[Ithe] Conventional Enclosed Thermal Current	8 A at -4040 °C
Status Led	Without
Control Type	Without push-button

Complementary

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Shape Of Pin	Flat
Average Coil Resistance	10200 Ohm network: AC at 20 °C +/- 15 %
[Ue] Rated Operational Voltage	102144 V AC 60 Hz 96144 V AC 50 Hz
[Ui] Rated Insulation Voltage	400 V conforming to EN/IEC 60947
[Uimp] Rated Impulse Withstand Voltage	3.6 kV conforming to IEC 61000-4-5
Contacts Material	Silver alloy (Ag/Ni)
[le] 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	5 mA
Maximum Switching Voltage	300 V DC 400 V AC
Minimum Switching Voltage	5 V
Maximum Switching Capacity	2000 VA AC 224 W DC
Resistive Rated Load	8 A at 250 V AC 8 A at 28 V DC
Minimum Switching Capacity	300 mW at 5 mA
Operating Rate	<= 600 cycles/hour under load <= 72000 cycles/hour no-load
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	
Operating Time 10 ms between coil de-energisation and making of the Off-delay contact 12 ms between coil energisation and making of the On-delay contact		
Marking	CE	
Average Coil Consumption	0.75 VA AC 60 Hz	
Drop-Out Voltage Threshold	>= 0.15 Uc AC	
Safety Reliability Data	B10d = 100000	
Protection Category	RTI	
Operating Position	Any position	
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	EN/IEC 61810-1 CSA C22.2 No 14 UL 508	
Product Certifications	GOST UL CSA	
Ambient Air Temperature For Storage	-4085 °C	
Vibration Resistance	+/- 1 mm (f= 1055 Hz) conforming to EN/IEC 60068-2-6	
Ip Degree Of Protection	IP40 conforming to EN/IEC 60529	
Shock Resistance	10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27	
Ambient Air Temperature For Operation	-4070 °C (AC) -4085 °C (DC)	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	10.5 cm
Package 1 Length	34.0 cm
Package 1 Weight	51.0 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	20
Package 2 Height	7.5 cm
Package 2 Width	10.5 cm
Package 2 Length	34.0 cm
Package 2 Weight	1.217 kg
Unit Type Of Package 3	S02
Number Of Units In Package 3	60

Package 3 Height	15.0 cm	
Package 3 Width	30.0 cm	
Package 3 Length	40.0 cm	
Package 3 Weight	3.933 kg	

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency

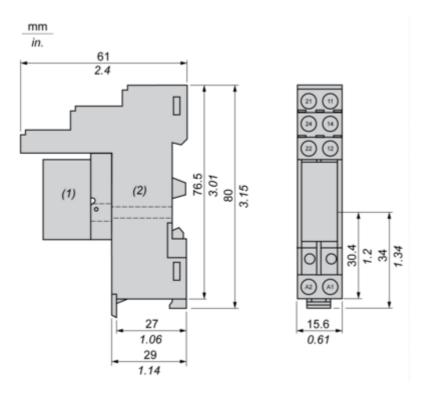
Well-being performance

Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes
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
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

Dimensions Drawings

Dimensions

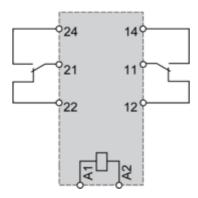
Relay Complete with Socket



- (1) Relays
- (2) Socket

Connections and Schema

Wiring Diagram

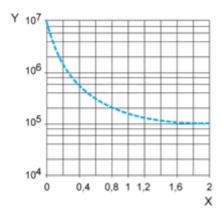


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Performance Curves

Electrical Durability of Contacts

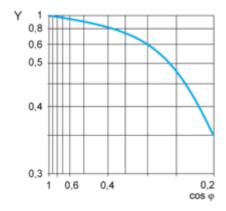
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



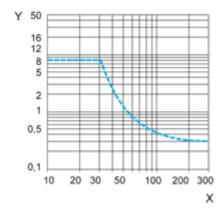
X Switching capacity (kVA)

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.