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



interface plug-in relay - Zelio RSB - 1 C/O - 12 V DC - 16 A - with socket

RSB1A160JDS

Discontinued on: 15 Jun 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	1 C/O
Contact Operation	Standard
[Uc] Control Circuit Voltage	12 V DC
[Ithe] Conventional Enclosed Thermal Current	16 A at -4040 °C
Status Led	Without
Control Type	Without push-button

Complementary

Shape Of Pin	Flat
Average Coil Resistance	360 Ohm network: DC at 20 °C +/- 10 %
[Ue] Rated Operational Voltage	9.613.2 V DC
[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	16 A (AC-1/DC-1) NO conforming to IEC 8 A (AC-1/DC-1) NC 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	4000 VA AC 448 W DC
Resistive Rated Load	16 A at 250 V AC 16 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

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Electrical Durability	100000 cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC
Operating Time	4 ms between coil de-energisation and making of the Off-delay contact 9 ms between coil energisation and making of the On-delay contact
Marking	CE
Average Coil Consumption	0.45 W DC
Drop-Out Voltage Threshold	>= 0.1 Uc DC
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	CSA C22.2 No 14 UL 508 EN/IEC 61810-1
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	33.7 cm
Package 1 Length	10.3 cm
Package 1 Weight	0.9 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	20
Package 2 Height	7.5 cm
Package 2 Width	33.7 cm
Package 2 Length	10.3 cm
Package 2 Weight	1.326 kg
Unit Type Of Package 3	S03
Number Of Units In Package 3	120

Package 3 Height	30 cm	
Package 3 Width	30 cm	
Package 3 Length	40 cm	
Package 3 Weight	8.396 ka	

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

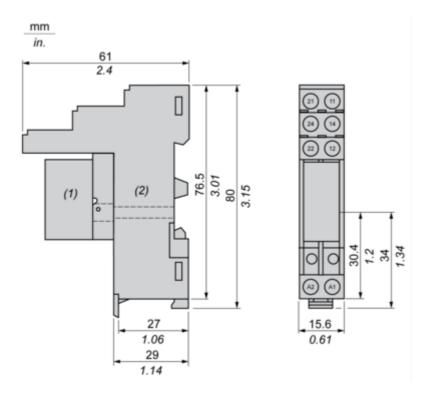
Well-being performance

Ø	Toxic Heavy Metal Free	
Ø	Mercury Free	
	Rohs Exemption Information	Yes
Eu R	dohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Chin	a Rohs Regulation	China RoHS declaration
	na Rohs Regulation	China RoHS declaration Product Environmental Profile

Dimensions Drawings

Dimensions

Relay Complete with Socket

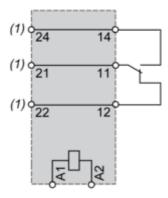


- (1) Relays
- (2) Socket

Connections and Schema

Wiring Diagram





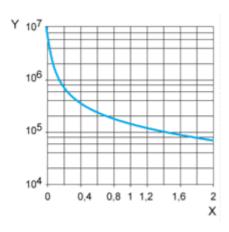
(1) Terminals 11 and 21,14 and 24,12 and 22 must be linked for this references

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

Performance Curves

Electrical Durability of Contacts

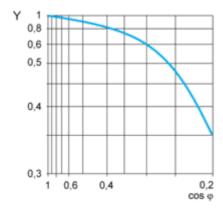
Durability (inductive load) = durability (resistive load) x reduction coefficient. Resistive AC load



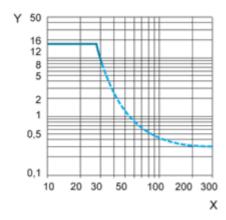
X Switching capacity (kVA)

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.