Specifications



Interface plug-in relay, 16 A, 1 CO, 24 V DC

Local distributor code: 389836157

RSB1A160BD

EAN Code: 3389110254464

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	24 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 (PCB type)
Average Coil Resistance	1440 Ohm network: AC at 20 °C +/- 10 %
[Ue] Rated Operational Voltage	16.836 V DC
[Ui] Rated Insulation Voltage	400 V conforming to IEC 60947
[Uimp] Rated Impulse Withstand Voltage	3.6 kV conforming to IEC 61000-4-5
Contacts Material	Silver alloy (AgNi)
[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	10 mA
Maximum Switching Voltage	300 V DC conforming to IEC
Minimum Switching Voltage	12 V
Maximum Switching Capacity	4000 VA/448 W
Resistive Rated Load	16 A at 250 V AC 16 A at 28 V DC
Minimum Switching Capacity	120 mW at 10 mA, 12 V
Operating Rate	<= 600 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical Durability	3000000 cycles
Electrical Durability	100000 cycles, 16 A at 250 V, AC-1 NO 100000 cycles, 8 A at 250 V, AC-1 NC

Operating Time	20 ms operating 20 ms reset
Marking	CE
Average Coil Consumption	0.45 W DC
Drop-Out Voltage Threshold	>= 0.1 Uc DC
Safety Reliability Data	B10d = 100000
Protection Category	RT I
Test Levels	Level A group mounting
Operating Position	Any position
Net Weight	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	UL 508 CSA C22.2 No 14 IEC 61810-1
Product Certifications	EAC CSA UL
Ambient Air Temperature For Storage	-4085 °C
Vibration Resistance	+/- 1 mm (f= 1055 Hz) conforming to IEC 60068-2-6
Ip Degree Of Protection	IP40 conforming to IEC 60529
Shock Resistance	10 gn (duration = 11 ms) for not operating conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ambient Air Temperature For Operation	-4085 °C (DC)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.700 cm
Package 1 Width	2.500 cm
Package 1 Length	31.000 cm
Package 1 Weight	12.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	10
Package 2 Height	1.700 cm
Package 2 Width	2.500 cm
Package 2 Length	31.100 cm
Package 2 Weight	146.000 g
Unit Type Of Package 3	S01
Number Of Units In Package 3	350

Package 3 Height	15.000 cm
Package 3 Width	15.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	5.200 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 >



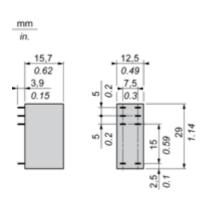
Transparency

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 The product must be disposed on European Union markets following specific waste Weee collection and never end up in rubbish bins **Circularity Profile** No need of specific recycling operations

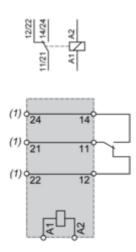
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



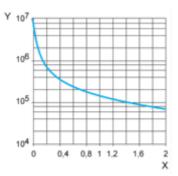
(1) Terminals 11 and 21,14 and 24,12 and 22 must be linked for this references

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

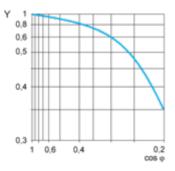
Performance Curves

Electrical Durability of Contacts

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

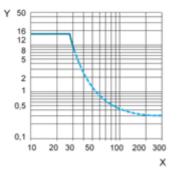


X Switching capacity (kVA) Y Durability (Number of operating cycles) Reduction coefficient for inductive AC load (depending on power factor cos φ)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DCY Current DCNote : These are typical curves, actual durability depends on load, environment, duty cycle, etc.