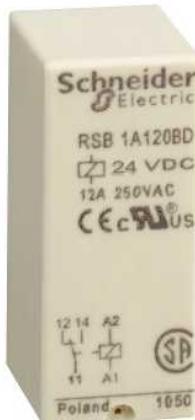


Product data sheet

Characteristics

RSB1A120BD

interface plug-in relay - Zelio RSB - 1 C/O - 24 V DC - 12 A



Main

Range of product	Zelio Relay
Series name	Interface relay
Product or component type	Plug-in relay
Device short name	RSB
Contacts type and composition	1 C/O
Contacts operation	Standard
Control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	12 A at -40...40 °C
Status LED	Without
Control type	Without pushbutton
Sale per indivisible quantity	10

Complementary

Shape of pin	Flat Flat (PCB type)
Average resistance	1440 Ohm (DC) at 20 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 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)
[Ie] rated operational current	6 A, NC (AC-1/DC-1) conforming to IEC 12 A, NO (AC-1/DC-1) conforming to IEC
Minimum switching current	5 mA
Maximum switching voltage	400 V AC 300 V DC
Minimum switching voltage	5 V
Maximum switching capacity	336 W (DC) 3000 VA (AC)
Minimum switching capacity	300 mW
Operating rate	<= 72000 cycles/hour no-load <= 600 cycles/hour under load
Mechanical durability	30000000 cycles
Electrical durability	>= 100000 cycles for resistive load at 12 A, 250 V
Operating time	9 ms between coil energisation and making of the On-delay contact 4 ms between coil de-energisation and making of the Off-delay contact
Marking	CE
Protection category	RT I
Operating position	Any position
CAD overall width	13 mm
CAD overall height	29 mm
CAD overall depth	20 mm
Terminals description ISO n°1	(11-12-14)OC (A1-A2)CO
Product weight	0.014 kg
Resistive rated load	12 A at 28 V DC 12 A at 250 V AC

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Average consumption in W	0.45 W DC
Drop-out voltage threshold	>= 0.1 Uc DC

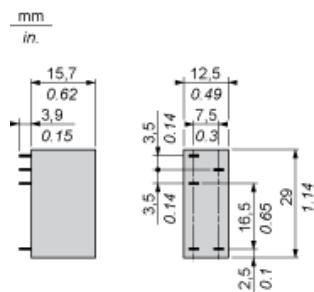
Environment

Dielectric strength	5000 V AC between coil and contact 2500 V AC between poles 1000 V AC between contacts
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CSA GOST UL
Ambient air temperature for storage	-40...85 °C
Vibration resistance	10 gn +/- 1 mm (f = 10...150 Hz) 10 cycles conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	5 gn for 11 ms in operation conforming to EN/IEC 60068-2-27 10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-40...85 °C (DC)

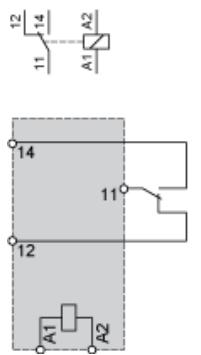
Contractual warranty

Period	18 months
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Dimensions



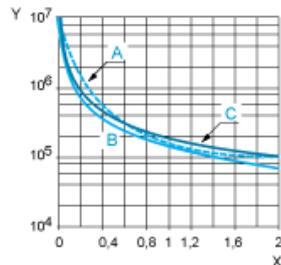
Wiring Diagram



Electrical Durability of Contacts

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

Resistive AC load



X Switching capacity (kVA)

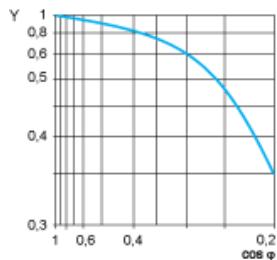
Y Durability (Number of operating cycles)

A RSB2A080..

B RSB1A160..

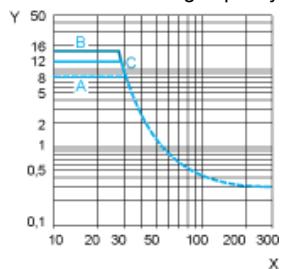
C RSB1A120..

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

A RSB2A080..

B RSB1A160..

C RSB1A120..

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