



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	2 C/O
Contact operation	Standard
[Uc] control circuit voltage	12 V DC
[Ithe] conventional enclosed thermal current	8 A at -40...40 °C
Status LED	1 LED
Control type	Without
Sale per indivisible quantity	30

Complementary

Average resistance	360 Ohm (DC) at 20 °C +/- 15 %
[Ue] rated operational voltage	9.6...13.2 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 (AgNi)
[Ie] rated operational current	4 A, NC (AC-1/DC-1) conforming to IEC 8 A, NO (AC-1/DC-1) conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V
Switching voltage	12 V
Maximum switching capacity	2000 VA (AC) 224 W (DC)
Load current	8 A at 250 V AC 8 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	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	20 ms operating 20 ms reset
Average coil consumption	0.45 W DC
Drop-out voltage threshold	>= 0.1 U _c DC

Safety reliability data	B10d = 100000
Protection category	RT I
Test levels	Level A group mounting
Operating position	Any position
Torque value	0.8 N.m 7 lbf.in
Connections - terminals	Connector, clamping capacity: 1 x 0.25...1 x 2.5 mm ² , AWG 22...AWG 14 flexible-with cable end Connector, clamping capacity: 2 x 0.25...2 x 1 mm ² , AWG 22...AWG 17 flexible-with cable end Connector, clamping capacity: 1 x 0.5...1 x 2.5 mm ² , AWG 20...AWG 14 solid-without cable end Connector, clamping capacity: 2 x 0.5...2 x 1.5 mm ² , AWG 20...AWG 16 solid-without cable end
Product weight	0.057 kg
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	IEC 61984 CSA C22.2 No 14 UL 508 EN/IEC 61810-1
Product certifications	CSA REACH EAC UL RoHS CE
Ambient air temperature for storage	-40...85 °C
Vibration resistance	+/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP20 conforming to EN/IEC 60529
Shock resistance	10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27 5 gn for 11 ms in operation conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-40...85 °C (DC)

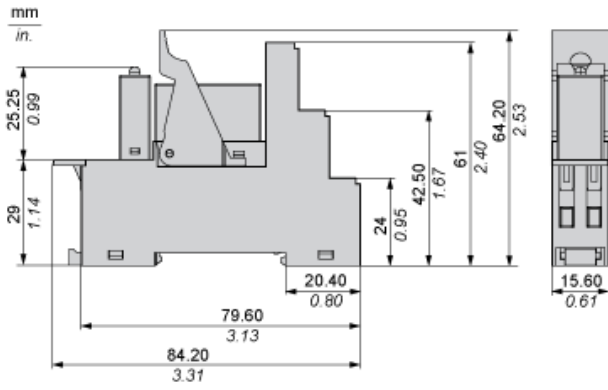
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1831 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Product Environmental Profile
Product end of life instructions	Need no specific recycling operations

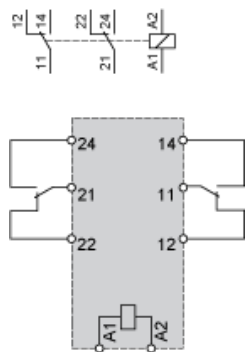
Contractual warranty

Warranty period	18 months
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Dimensions



Wiring Diagram

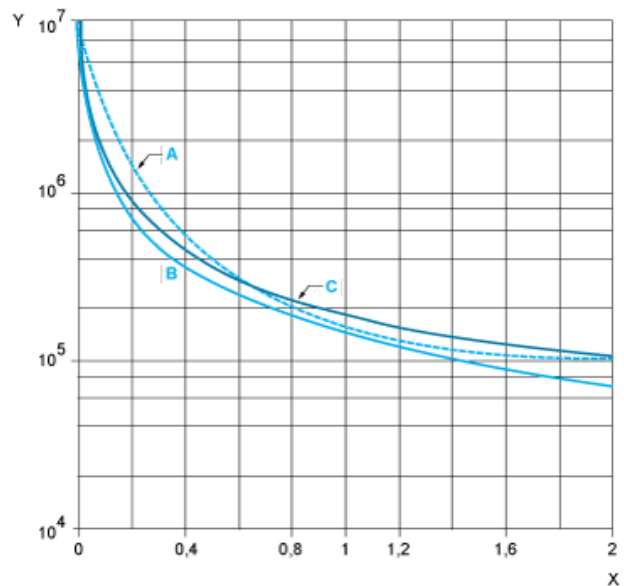


NOTE: For DC input, A1 have to be +, otherwise it would short circuit from protection module

Electrical Durability of Contacts

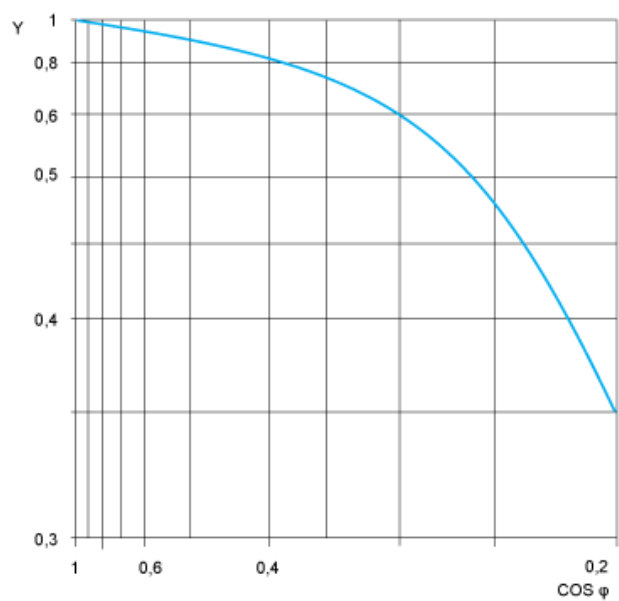
Durability (Inductive Load) = Durability (Resistive Load) x Reduction Coefficient.

Resistive AC Load



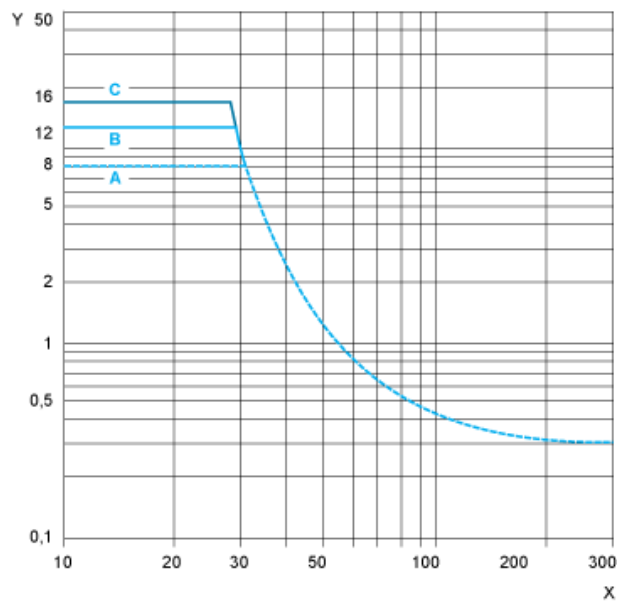
- (y) Durability (Number of operating cycles)
- (x) Switching capacity (kVA)
- A : RSB2A080●●
- B : RSB1A160●●
- C : RSB1A120●●

Reduction Coefficient for Inductive AC Load (Depending on Power Factor $\cos \phi$)



- (y) Reduction coefficient (A)

Maximum Switching Capacity on Resistive DC Load



- (y) Current DC
- (x) Voltage DC
- A : RSB2A080●●
- B : RSB1A160●●
- C : RSB1A120●●

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

Product Life Status :	Commercialised
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