Product data sheet
Characteristics

RSB2A080BD
interface plug-in relay - Zelio RSB - 2 C/O - 24 V DC - 8 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	2 C/O
Contacts operation	Standard
Control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	8 A at -40...40 °C
Status LED	Without
Control type	Without push-button
Sale per indivisible quantity	10

Complementary

Shape of pin	Flat (PCB type)
Average coil resistance	1440 Ohm (AC) at 20 °C +/- 10 %
[Ue] rated operational voltage	16.8...36 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	8 A, NO (AC-1/DC-1) conforming to IEC 4 A, NC (AC-1/DC-1) conforming to IEC
Minimum switching current	100 mA
Maximum switching voltage	250 V DC conforming to IEC
Minimum switching voltage	5 V
Maximum switching capacity	2000 VA/224 W
Resistive rated load	8 A at 28 V DC 8 A at 250 V AC
Minimum switching capacity	500 mW at 100 mA / 5 V
Operating rate	<= 18000 cycles/hour no-load <= 600 cycles/hour under load
Mechanical durability	30000000 cycles
Electrical durability	100000 cycles (4 A at 250 V, AC-1) NC 100000 cycles (8 A at 250 V, AC-1) NO
Operating time	10 ms reset 20 ms operating
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
Operating position	Any position
Product weight	0.014 kg

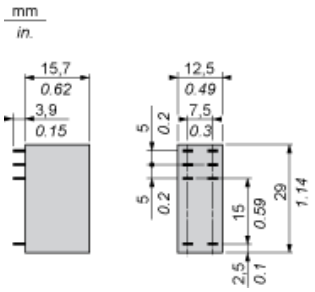
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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Environment

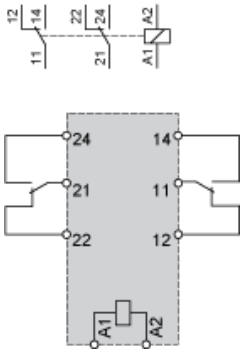
Dielectric strength	5000 V AC between coil and contact 2500 V AC between poles 1000 V AC between contacts
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CSA UL EAC
Ambient air temperature for storage	-40...85 °C
Vibration resistance	+/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	5 gn for11 ms in operation conforming to EN/IEC 60068-2-27 10 gn for11 ms not operating conforming to EN/IEC 60068-2-27
Ambient air temperature for operation	-40...85 °C (DC)

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Dimensions



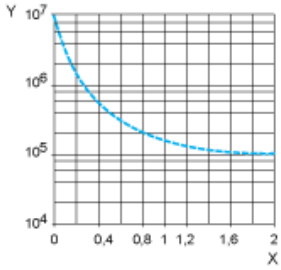
Wiring Diagram



Electrical Durability of Contacts

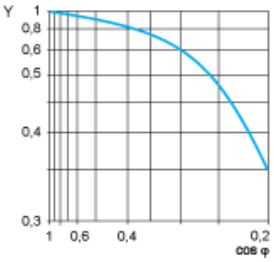
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



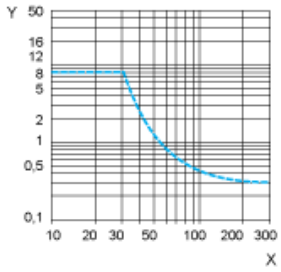
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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.