

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 |
| Control circuit voltage | 24 V AC |
| [Ithe] conventional enclosed thermal current | 8 A at <= 40 °C |
| Status LED | Without |
| Control type | Without pushbutton |
| Sale per indivisible quantity | 10 |

Complementary

| | |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin | Flat (PCB type) |
| Average resistance | 400 Ohm (AC) at 20 °C +/- 15 % |
| Rated operational voltage limits | 19.2...26.4 V AC, 50 Hz 20.4...26.4 V AC, 60 Hz |
| [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 | 4 A, NC (AC-1/DC-1) conforming to IEC 8 A, NO (AC-1/DC-1) 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 | 2000 VA (AC) 224 W (DC) |
| Minimum switching capacity | 300 mW |
| Operating rate | <= 10 cyc/mn (under load) <= 1200 cyc/mn (no-load) |
| Mechanical durability | 30000000 cycles |
| Electrical durability | >= 100000 cycles for resistive load at 8 A, 250 V |
| Operating time | 10 ms between coil de-energisation and making of the Off-delay contact (AC) 12 ms between coil energisation and making of the On-delay contact (AC) 4 ms between coil de-energisation and making of the Off-delay contact (DC) 9 ms between coil energisation and making of the On-delay contact (DC) |
| 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 | (11-14-23)OC (21-22-24)OC (A1-A2)CO |
| Product weight | 0.014 kg |

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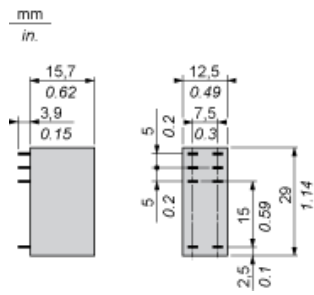
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|----------------------------|---------------------------------------------|
| Resistive rated load | 8 A at 250 V AC 8 A at 28 V DC |
| Average consumption | AC : 0.75 VA DC : 0.45 W |
| Drop-out voltage threshold | AC : $\geq 0.15 U_c$ DC : $\geq 0.1 U_c$ |

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 EN/IEC 61810-1 UL 508 |
| Product certifications | CSA UL |
| Ambient air temperature for storage | -40...85 °C |
| Vibration resistance | 10 gn (f = 10...150 Hz) conforming to EN/IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| Shock resistance | 10 gn (on closing) conforming to EN/IEC 60068-2-27 5 gn (on opening) conforming to EN/IEC 60068-2-27 |
| Ambient air temperature for operation | -40...70 °C (AC) |
| RoHS EUR status | Compliant |
| RoHS EUR conformity date | 0401 |

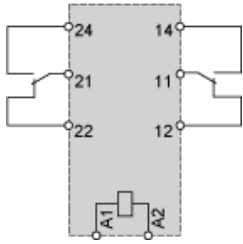
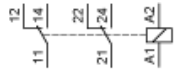
Interface Relay

Dimensions



Interface Relay

Wiring Diagram

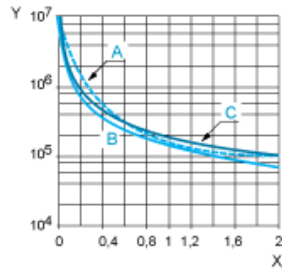


RSB Interface Relays

Electrical Durability of Contacts

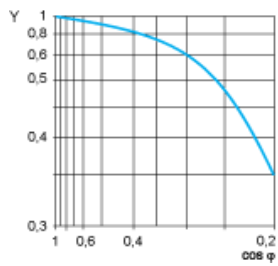
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



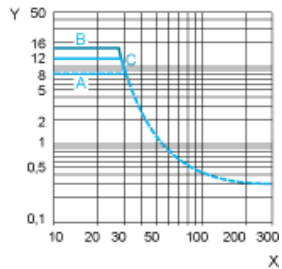
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)
- A RSB2A080
- B RSB1A160
- C RSB1A120

Reduction coefficient for inductive AC load (depending on power factor cos φ)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



- X Voltage DC
- Y Current DC
- A RSB2A080
- B RSB1A160
- C RSB1A120