Product data sheet Characteristics

RSB1A160BD

interface plug-in relay - Zelio RSB - 1 C/O - 24 V DC - 16 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 |
| Control circuit voltage | 24 V DC |
| [Ithe] conventional enclosed thermal current | 16 A at <= 40 °C |
| Status LED | Without |
| Control type | Without pushbutton |
| Sale per indivisible quantity | 10 |

Complementary

| 1 | |
|--|---|
| Shape of pin | Flat (PCB type) |
| Average resistance | 1440 Ohm (DC) at 20 °C +/- 10 % |
| Rated operational voltage limits | 19.226.4 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) |
| [le] rated operational current | 16 A, NO (AC-1/DC-1) conforming to IEC 8 A, NC (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 | 4000 VA (AC) 448 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 | >= 70000 cycles for resistive load at 16 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 | (A1-A2)CO |
| Product weight | 0.014 kg |
| Resistive rated load | 16 A at 250 V AC 16 A at 28 V DC |
| | |

| Average consumption | AC : 0.75 VA DC : 0.45 W |
|----------------------------|-----------------------------------|
| Drop-out voltage threshold | AC : >= 0.15 Uc DC : >= 0.1 Uc |

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 | -4085 °C |
| Vibration resistance | 10 gn (f = 10150 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 | -4085 °C (DC) |
| RoHS EUR status | Compliant |
| RoHS EUR conformity date | 0401 |

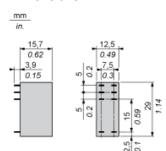


Product data sheet Dimensions Drawings

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Interface Relay

Dimensions



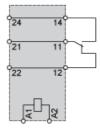
Product data sheet Connections and Schema

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Interface Relay

Wiring Diagram





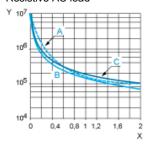
When using relay RSB1A160•• with socket RSZE1548M terminals 11 and 21, 14 and 24, 12 and 22 must be linked.

RSB Interface Relays

Electrical Durability of Contacts

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

Resistive AC load



Switching capacity (kVA)

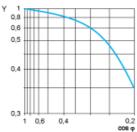
X Y Durability (Number of operating cycles)

RSB2A080•• Α

В RSB1A160••

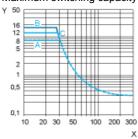
С RSB1A120••

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



Reduction coefficient (A)

Maximum switching capacity on resistive DC load



Voltage DC

X Y Current DC

Α RSB2A080••

RSB1A160•• В

RSB1A120••