

RSB1A160FD

interface plug-in relay - Zelio RSB - 1 C/O - 110 V DC - 16 A



Main

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|--|---------------------|
| 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 |
| Contact operation | Standard |
| [Uc] control circuit voltage | 110 V DC |
| [Ithe] conventional enclosed thermal current | 16 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 resistance | 30250 Ohm (AC) at 20 °C +/- 10 % |
| [Ue] rated operational voltage | 77...165 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 | 16 A, NO (AC-1/DC-1) conforming to IEC 8 A, NC (AC-1/DC-1) conforming to IEC |
| Minimum switching current | 100 mA |
| Maximum switching voltage | 250 V DC conforming to IEC |
| Switching voltage | 5 V |
| Maximum switching capacity | 4000 VA/448 W |
| Load current | 16 A at 250 V AC 16 A at 28 V DC |
| Minimum switching capacity | 500 mW at 100 mA / 5 V |
| Operating rate | <= 600 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical durability | 30000000 cycles |
| Electrical durability | 100000 cycles (16 A at 250 V, AC-1) NO 100000 cycles (8 A at 250 V, AC-1) NC |
| Operating time | 20 ms operating 10 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 |
| Operating position | Any position |
| Product weight | 0.014 kg |
| Device presentation | Complete product |

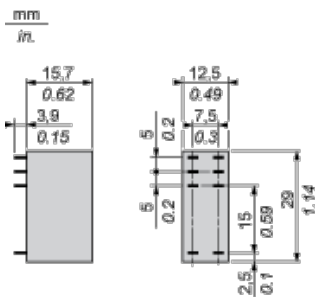
Environment

| | |
|---------------------|---|
| dielectric strength | 1000 V AC between contacts 2500 V AC between poles 5000 V AC between coil and contact |
| standards | EN/IEC 61810-1 |

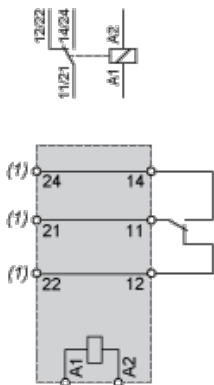
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| | |
|---------------------------------------|--|
| product certifications | CSA UL EAC |
| ambient air temperature for storage | -40...85 °C |
| vibration resistance | +/- 1 mm (f = 10...55 Hz) conforming to EN/IEC 60068-2-6 |
| IP degree of protection | IP40 conforming to EN/IEC 60529 |
| shock resistance | 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) |

Dimensions



Wiring Diagram

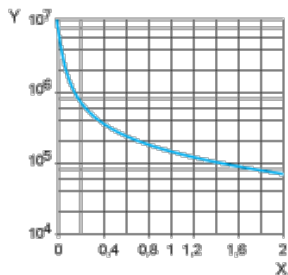


(1) Before wiring please refer to the Instruction sheet

Electrical Durability of Contacts

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

Resistive AC load



X Switching capacity (kVA)

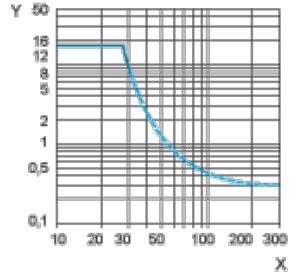
Y Durability (Number of operating cycles)

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



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.