

# Product data sheet

## Characteristics

# RSB2A080BD

interface plug-in relay - Zelio RSB - 2 C/O - 24 V  
DC - 8 A

Product availability: Stock - Normally stocked in distribution facility

Price\*: 4.20 USD



## Main

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Commercial Status                            | Commercialised                   |
| 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 Aat -40...104 °F (-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                     | 1440 Ohm (AC)at 20 °C +/- 10 %                                                 |
| System 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<br>4 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             | 2000 VA/224 W                                                                  |
| Load current                           | 8 Aat 28 V DC<br>8 Aat 250 V AC                                                |
| Minimum switching capacity             | 500 mWat 100 mA / 5 V                                                          |
| Operating rate                         | <= 18000 cycles/hour no-load<br><= 600 cycles/hour under load                  |
| Mechanical durability                  | 30000000 cycles                                                                |
| Electrical durability                  | 100000 cycles (4 Aat 250 V, AC-1) NC<br>100000 cycles (8 Aat 250 V, AC-1) NO   |
| Operating time                         | 10 ms reset<br>20 ms operating                                                 |
| Marking                                | CE                                                                             |
| Average consumption in W               | 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     | 0.03 lb(US) (0.014 kg) |

## Environment

|                                       |                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 5000 V AC between coil and contact<br>2500 V AC between poles<br>1000 V AC between contacts                                  |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14                                                                                  |
| Product certifications                | CSA<br>UL<br>EAC                                                                                                             |
| Ambient air temperature for storage   | -40...185 °F (-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 for 11 ms in operation conforming to EN/IEC 60068-2-27<br>10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27 |
| Ambient air temperature for operation | -40...185 °F (-40...85 °C) (DC)                                                                                              |

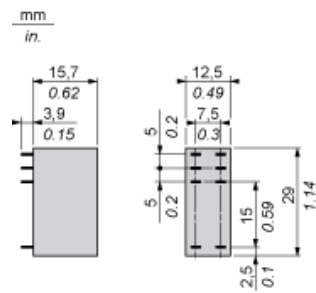
## Ordering and shipping details

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Category              | 21127 - ZELIO ICE CUBE RELAYS                     |
| Discount Schedule     | CP2                                               |
| GTIN                  | 00785901618133                                    |
| Nbr. of units in pkg. | 10                                                |
| Product availability  | Stock - Normally stocked in distribution facility |
| Returnability         | Y                                                 |
| Country of origin     | AT                                                |

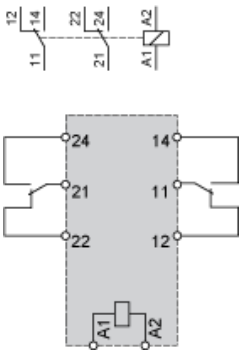
## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



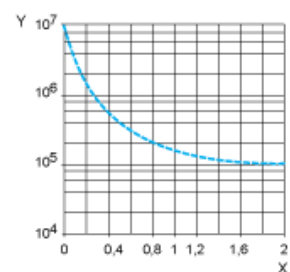
Wiring Diagram



## Electrical Durability of Contacts

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

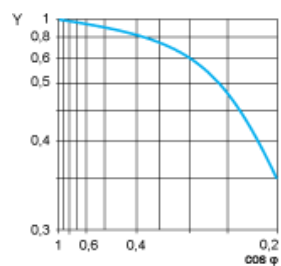
Resistive AC load



X Switching capacity (kVA)

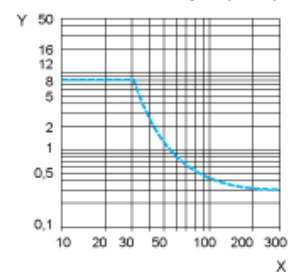
Y Durability (Number of operating cycles)

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



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.