



### 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                | 1 C/O               |
| Contacts operation                           | Standard            |
| Control circuit voltage                      | 24 V DC             |
| [Ithe] conventional enclosed thermal current | 12 A at -40...40 °C |
| Status LED                                   | Without             |
| Control type                                 | Without pushbutton  |
| Sale per indivisible quantity                | 10                  |

### Complementary

|                                        |                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Flat                                                                                                                                       |
| Average resistance                     | 1440 Ohm (DC) at 20 °C +/- 10 %                                                                                                            |
| Rated operational voltage limits       | 19.2...26.4 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)                                                                                                                       |
| [Ie] rated operational current         | 6 A, NC (AC-1/DC-1) conforming to IEC<br>12 A, NO (AC-1/DC-1) conforming to IEC                                                            |
| Minimum switching current              | 5 mA                                                                                                                                       |
| Maximum switching voltage              | 400 V AC<br>300 V DC                                                                                                                       |
| Minimum switching voltage              | 5 V                                                                                                                                        |
| Maximum switching capacity             | 336 W (DC)<br>3000 VA (AC)                                                                                                                 |
| Minimum switching capacity             | 300 mW                                                                                                                                     |
| Operating rate                         | <= 72000 cycles/hour no-load<br><= 600 cycles/hour under load                                                                              |
| Mechanical durability                  | 30000000 cycles                                                                                                                            |
| Electrical durability                  | >= 100000 cycles for resistive load at 12 A, 250 V                                                                                         |
| Operating time                         | 9 ms between coil energisation and making of the On-delay contact<br>4 ms between coil de-energisation and making of the Off-delay contact |
| Marking                                | CE                                                                                                                                         |
| Protection category                    | RT I                                                                                                                                       |
| Operating position                     | Any position                                                                                                                               |
| CAD overall width                      | 16 mm                                                                                                                                      |
| CAD overall height                     | 79 mm                                                                                                                                      |
| CAD overall depth                      | 61 mm                                                                                                                                      |
| Terminals description ISO n°1          | (11-12-14)OC<br>(A1-A2)CO                                                                                                                  |
| Resistive rated load                   | 12 A at 28 V DC<br>12 A at 250 V AC                                                                                                        |
| Average consumption in W               | 0.45 W DC                                                                                                                                  |
| Drop-out voltage threshold             | >= 0.1 U <sub>c</sub> DC                                                                                                                   |

## 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>GOST<br>UL                                                                                                            |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                  |
| Vibration resistance                  | 10 gn +/- 1 mm (f = 10...150 Hz) 10 cycles 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...85 °C (DC)<br>-40...70 °C (AC)                                                                                         |

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