

## Main

|                                              |                      |
|----------------------------------------------|----------------------|
| Range of product                             | Zelio Relay          |
| Series name                                  | Universal            |
| Product or component type                    | Plug-in relay        |
| Device short name                            | RUM                  |
| Contacts type and composition                | 2 C/O                |
| Control circuit voltage                      | 48 V DC              |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C  |
| Status LED                                   | With                 |
| Control type                                 | Lockable test button |
| Utilisation coefficient                      | 20 %                 |

## Complementary

|                                        |                                                                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of pin                           | Cylindrical                                                                                                                                                |
| [Ui] rated insulation voltage          | 300 V conforming to UL<br>300 V conforming to CSA<br>250 V conforming to IEC                                                                               |
| [Uimp] rated impulse withstand voltage | 4 kV                                                                                                                                                       |
| Contacts material                      | AgNi                                                                                                                                                       |
| [Ie] rated operational current         | 5 A AC-1/DC-1 (NC) conforming to IEC<br>16 A at 277 V AC-1 conforming to UL<br>12 A at 28 V DC-1 conforming to UL<br>10 A AC-1/DC-1 (NO) conforming to IEC |
| Minimum switching current              | 10 mA                                                                                                                                                      |
| Maximum switching voltage              | 250 V DC conforming to IEC<br>250 V AC conforming to IEC                                                                                                   |
| Minimum switching voltage              | 17 V                                                                                                                                                       |
| Resistive rated load                   | 10 A at 28 V DC<br>10 A at 250 V AC                                                                                                                        |
| Maximum switching capacity             | 280 W, DC circuit<br>2500 VA, AC circuit                                                                                                                   |
| Minimum switching capacity             | 170 mW                                                                                                                                                     |
| Operating rate                         | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                                             |
| Mechanical durability                  | 5000000 cycles                                                                                                                                             |
| Electrical durability                  | 100000 cycles for resistive load                                                                                                                           |
| Average coil consumption in W          | 1.4 W                                                                                                                                                      |
| Drop-out voltage threshold             | >= 0.1 U <sub>c</sub> DC                                                                                                                                   |
| Operate time                           | 20 ms                                                                                                                                                      |
| Average coil resistance                | 1800 Ohm at 20 °C +/- 10 %                                                                                                                                 |
| Rated operational voltage limits       | 38.4...52.8 V DC                                                                                                                                           |
| Protection category                    | RT I                                                                                                                                                       |
| Safety reliability data                | B10d = 100000                                                                                                                                              |
| Operating position                     | Any position                                                                                                                                               |
| Product weight                         | 0.085 kg                                                                                                                                                   |

## Environment

|                                       |                                                                                                                                                                                                                   |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 1550 V AC between poles<br>1550 V AC between coil and contact<br>1500 V AC between contacts                                                                                                                       |
| Product certifications                | CSA<br>GOST<br>UL                                                                                                                                                                                                 |
| Standards                             | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14                                                                                                                                                                       |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                                                                                       |
| Ambient air temperature for operation | -40...55 °C                                                                                                                                                                                                       |
| Vibration resistance                  | 4 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles not operating) conforming to EN/IEC 60068-2-27<br>3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 10 cycles in operation) conforming to EN/IEC 60068-2-27 |
| IP degree of protection               | IP40 conforming to EN/IEC 60529                                                                                                                                                                                   |
| Shock resistance                      | 10 gn not operating<br>10 gn in operation                                                                                                                                                                         |
| Pollution degree                      | 3                                                                                                                                                                                                                 |