# Product data sheet
## Characteristics

# RUMC22JD
## universal plug-in relay - Zelio RUM - 2 C/O - 12 V DC - 10 A - with LED


### 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 | 12 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 (1.2/50 µs) |
| Contacts material | AgNi |
| [Ie] rated operational current | 10 A at 277 V AC conforming to CSA<br>10 A at 28 V DC (NO) conforming to IEC<br>10 A at 250 V AC (NO) conforming to IEC<br>5 A at 28 V DC (NC) conforming to IEC<br>5 A at 250 V AC (NC) conforming to IEC<br>10 A at 30 V DC conforming to CSA<br>10 A at 30 V DC conforming to UL<br>10 A at 277 V AC conforming to UL |
| Maximum switching voltage | 250 V conforming to IEC |
| Resistive rated load | 10 A at 28 V DC<br>10 A at 250 V AC |
| Maximum switching capacity | 2500 VA/280 W |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| 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 Uc DC |
| Operate time | 20 ms at nominal voltage |
| Release time | 20 ms at nominal voltage |
| Average coil resistance | 120 Ohm at 20 °C +/- 15 % |
| Rated operational voltage limits | 9.6...13.2 V DC |
| Protection category | RT I |
| Operating position | Any position |
| Product weight | 0.086 kg |

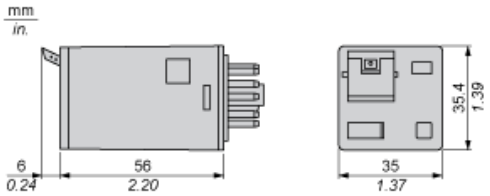
## Environment

| | |
|---|---|
| Dielectric strength | 2000 V AC between poles with basic insulation<br>2500 V AC between coil and contact with reinforced insulation<br>1500 V AC between contacts with micro disconnection insulation |
| Product certifications | CSA<br>RoHS<br>UL<br>REACH<br>EAC |
| 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 5 cycles not operating)<br>3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) |
| IP degree of protection | IP40 |
| Shock resistance | 10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27<br>10 gn for 11 ms in operation conforming to EN/IEC 60068-2-27 |
| Pollution degree | 3 |

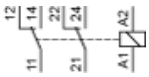
## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1409 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Need no specific recycling operations |

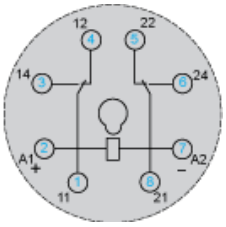
## Dimensions



## Wiring Diagram




## Wiring Diagram

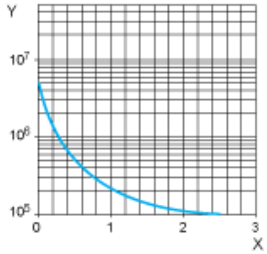



Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

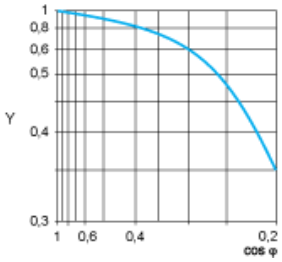
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



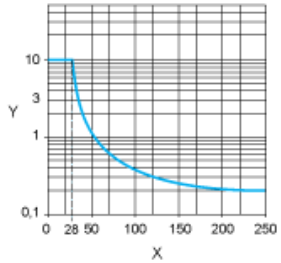

X Switching capacity (kVA)
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor cos ϕ)




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.