

RUMC23BD

universal plug-in relay - Zelio RUM - 2 C/O - 24 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 |
| [Uc] control circuit voltage | 24 V DC |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C |
| Status LED | With |
| Control type | Without lockable test button |
| Utilisation coefficient | 20 % |

Complementary

| | |
|--|--|
| Shape of pin | Cylindrical |
| [Ui] rated insulation voltage | 250 V conforming to IEC 300 V conforming to UL 300 V conforming to CSA |
| [Uimp] rated impulse withstand voltage | 4 kV (1.2/50 µs) |
| Contacts material | AgNi |
| [Ie] rated operational current | 10 A at 28 V DC (NO) conforming to IEC 10 A at 250 V AC (NO) conforming to IEC 5 A at 28 V DC (NC) conforming to IEC 5 A at 250 V AC (NC) conforming to IEC 10 A at 30 V DC conforming to UL 10 A at 277 V AC conforming to UL 10 A at 277 V AC conforming to CSA 10 A at 30 V DC conforming to CSA |
| Maximum switching voltage | 250 V conforming to IEC |
| Load current | 10 A at 250 V AC 10 A at 28 V DC |
| Maximum switching capacity | 2500 VA/280 W |
| Minimum switching capacity | 170 mW at 10 mA, 17 V |
| Operating rate | <= 18000 cycles/hour no-load <= 1200 cycles/hour under load |
| Mechanical durability | 5000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average coil consumption | 1.4 W |
| Drop-out voltage threshold | >= 0.1 U _c DC |
| Operating time | 20 ms at nominal voltage |
| Reset time | 20 ms at nominal voltage |
| Average resistance | 470 Ohm at 20 °C +/- 15 % |
| Rated operational voltage limits | 19.2...26.4 V DC |
| Protection category | RT I |
| Safety reliability data | B10d = 100000 |
| Operating position | Any position |
| Product weight | 0.086 kg |
| Device presentation | Complete product |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

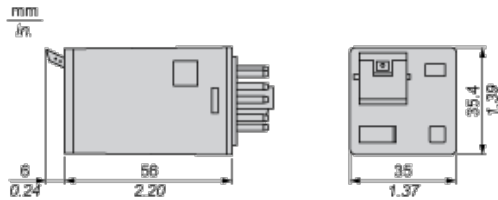
Environment

| | |
|---------------------------------------|--|
| dielectric strength | 2000 V AC between poles with basic insulation 1500 V AC between contacts with micro disconnection insulation 2500 V AC between coil and contact with reinforced insulation |
| product certifications | CSA RoHS UL REACH EAC |
| standards | EN/IEC 61810-1 UL 508 CSA C22.2 No 14 |
| ambient air temperature for storage | -40...85 °C |
| ambient air temperature for operation | -40...55 °C |
| vibration resistance | 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles in operation) 4 gn (f = 10...150 Hz), amplitude +/- 1 mm (on 5 cycles not operating) |
| IP degree of protection | IP40 |
| shock resistance | 10 gn for 11 ms in operation conforming to EN/IEC 60068-2-27 10 gn for 11 ms not operating conforming to EN/IEC 60068-2-27 |
| pollution degree | 3 |

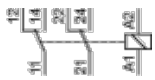
Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1430 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

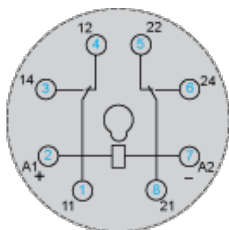
Dimensions



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)

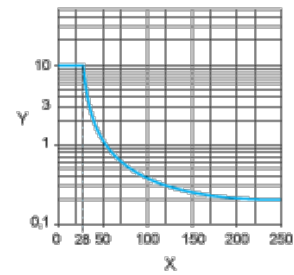
Y Durability (Number of operating cycles)

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



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.