

RUMC21BD

universal plug-in relay - Zelio RUM - 2 C/O - 24 V DC
- 10 A



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 | Without |
| Control type | 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 |

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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 |

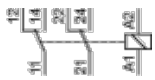
Offer Sustainability

| | |
|----------------------------------|---|
| 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 |

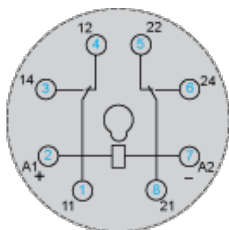
Dimensions



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)

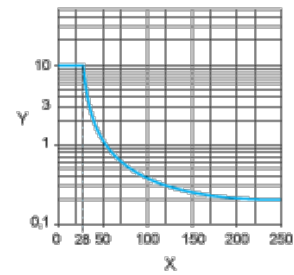
Y Durability (Number of operating cycles)

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.