Product data sheet Characteristics

RUMF3AB3P7

universal plug-in relay - Zelio RUM - 3 C/O - 230 V AC - 10 A - with LED

Main

| Commercial Status | Commercialised |
|--|--------------------|
| Range of product | Zelio Relay |
| Series name | Universal |
| Product or component type | Plug-in relay |
| Device short name | RUM |
| Contacts type and composition | 3 C/O |
| Contacts operation | Standard |
| Control circuit voltage | 230 V AC |
| [Ithe] conventional enclosed thermal current | At -4055 °C |
| Status LED | With |
| Control type | Without pushbutton |
| Coil interference sup- pression | Without |
| Utilisation coefficient | 20 % |
| Sale per indivisible quantity | 10 |
| | |

Complementary

| Complementary | |
|--|---|
| Shape of pin | Flat |
| [Ui] rated insulation voltage | 300 V conforming to UL 300 V conforming to CSA 250 V conforming to IEC |
| [Uimp] rated impulse withstand voltage | 4 kV conforming to IEC 61000-4-5 |
| Contacts material | Silver alloy (Ag/Ni) |
| [le] rated operational current | 5 A (AC-1/DC-1) NC conforming to IEC 16 A at 277 V (AC-1) conforming to UL 12 A at 28 V (DC-1) conforming to UL 10 A (AC-1/DC-1) NO conforming to IEC |
| Minimum switching current | 10 mA |
| Maximum switching voltage | 250 V DC conforming to IEC 250 V AC conforming to IEC |
| Minimum switching voltage | 17 V |
| Resistive rated load | 10 A at 28 V DC 10 A at 250 V AC |
| Maximum switching capacity | 280 W, DC circuit 2500 VA, AC circuit |
| Minimum switching capacity | 170 mW |
| Operating rate | <= 1200 cycles/hour under load <= 18000 cycles/hour no-load |
| Mechanical durability | 5000000 cycles |
| Electrical durability | 100000 cycles for resistive load |
| Average consumption in VA | 23 AC 60 Hz |
| Drop-out voltage threshold | >= 0.15 Uc AC |
| Operating time | 20 ms between coil energisation and making of the On-delay contact 20 ms between coil de-energisation and making of the Off-delay contact |
| Average resistance | 7200 Ohm, AC circuit at 20 °C +/- 15 % |
| Rated operational voltage limits | 184253 V AC |
| Protection category | RT I |
| Operating position | Any position |
| | |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherence in not to be used for determining suitability or inheability of these products for specific user applications. It is the dourn and resting of the products with respect to the relevant specific application or use thereof. It is the duty of any 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 | 1550 V AC (between poles) 1550 V AC (between coil and contact) 1500 V AC (between contacts) |
|---------------------------------------|--|
| Product certifications | CSA GOST UL |
| Standards | EN/IEC 61810-1 UL 508 CSA C22.2 No 14 |
| Ambient air temperature for storage | -4085 °C |
| Ambient air temperature for operation | -4055 °C |
| Vibration resistance | 4 gn (f = 10150 Hz), amplitude +/- 1 mm (on 10 cycles not operating) conforming to EN/IEC 60068-2-27 3 gn (f = 10150 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 for11 ms not operating conformingto EN/IEC 60068-2-27 10 gn for11 ms in operation conformingto EN/IEC 60068-2-27 |

Contractual warranty

| Period 18 months | |
|------------------|--|
|------------------|--|

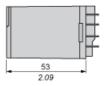


Product data sheet Dimensions Drawings

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Dimensions







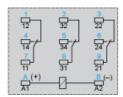
Product data sheet Connections and Schema

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Wiring Diagram



Wiring Diagram



Symbols shown in blue correspond to Nema marking.

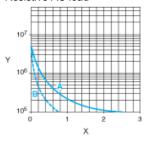
Product data sheet Performance Curves

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Electrical Durability of Contacts

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

Resistive AC load



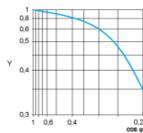
X Switching capacity (kVA)

Y Durability (Number of operating cycles)

A RUMF, RUMC2 ..., RUMC3A ...

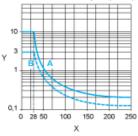
B RUMC3G•••

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

A RUMF, RUMC2 ..., RUMC3A ...

B RUMC3G•••