# 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 -40...55 °C |
| Status LED | With |
| Control type | Without pushbutton |
| Coil interference suppression | Without |
| Utilisation coefficient | 20 % |
| Sale per indivisible quantity | 10 |

### Complementary

| | |
|---|---|
| Shape of pin | Flat |
| [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 conforming to IEC 61000-4-5 |
| Contacts material | Silver alloy (Ag/Ni) |
| [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 consumption in VA | 2...3 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<br>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 | 184...253 V AC |
| Protection category | RT I |
| Operating position | Any position |

## Environment

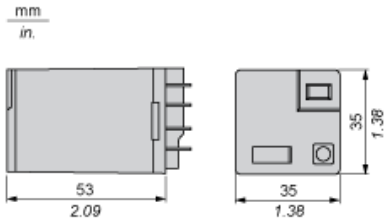
| | |
|---|---|
| Dielectric strength | 1550 V AC (between poles)<br>1550 V AC (between coil and contact)<br>1500 V AC (between contacts) |
| Product certifications | CSA<br>GOST<br>UL |
| Standards | EN/IEC 61810-1<br>UL 508<br>CSA C22.2 No 14 |
| Ambient air temperature for storage | -40...85 °C |
| 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 for11 ms not operating conformingto EN/IEC 60068-2-27<br>10 gn for11 ms in operation conformingto EN/IEC 60068-2-27 |

## Contractual warranty

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

RUMF3AB3P7

## Dimensions



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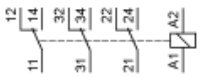
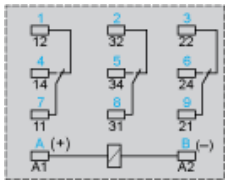
## Wiring Diagram




## Wiring Diagram

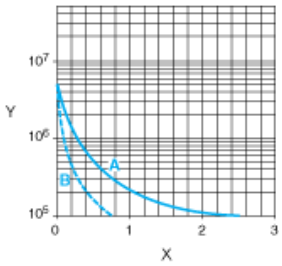



Symbols shown in blue correspond to Nema marking.

## Electrical Durability of Contacts

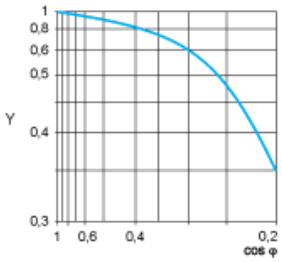
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



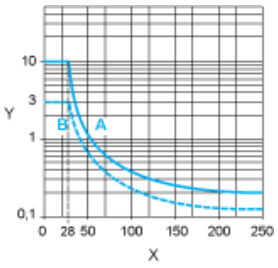

X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RUMF•••••, RUMC2•••, RUMC3A•••
B RUMC3G•••

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•••