Product data sheet
Characteristics

RUMC3AB1B7
universal plug-in relay - Zelio RUM - 3 C/O - 24 V AC - 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	3 C/O
Contacts operation	Standard
Control circuit voltage	24 V AC
[Ithe] conventional enclosed thermal current	At -40...55 °C
Status LED	Without
Control type	Pushbutton
Coil interference suppression	Without
Utilisation coefficient	20 %
Sale per indivisible quantity	10

Complementary

Shape of pin	Cylindrical
[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)
[Ie] 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	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 20 ms between coil de-energisation and making of the Off-delay contact
Average resistance	72 Ohm, AC circuit at 20 °C +/- 15 %
Rated operational voltage limits	19.2...26.4 V AC
Protection category	RT I
Operating position	Any position
Product weight	0.088 kg

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	-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 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 10 gn for11 ms in operation conformingto EN/IEC 60068-2-27

Contractual warranty

Period	18 months

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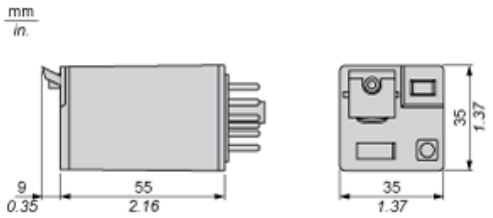
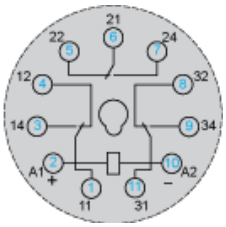
Dimensions



Wiring Diagram

Wiring Diagram

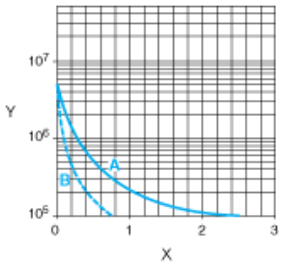


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

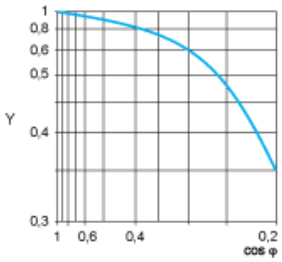
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



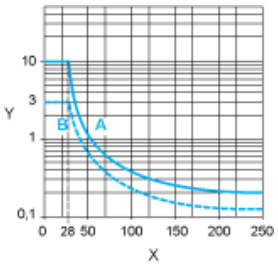
X Switching capacity (kVA)
Y Durability (Number of operating cycles)
A RUMF•••••, RUMC2•••, RUMC3A•••
B RUMC3G•••

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•••

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.