Product data sheet
Characteristics

RUMC3GB2F7
universal plug-in relay - Zelio RUM - 3 C/O - 120 V AC - 3 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	3 C/O
Contacts operation	Low level
Control circuit voltage	120 V AC
[Ithe] conventional enclosed thermal current	3 A at -40...55 °C
Status LED	With
Control type	Lockable test button
Utilisation coefficient	20 %

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
Contacts material	Gold plated bifurcated silver
[Ie] rated operational current	1 A AC-1/DC-1 (NC) conforming to IEC 3 A AC-1/DC-1 conforming to UL 2 A AC-1/DC-1 (NO) conforming to IEC
Minimum switching current	3 mA
Maximum switching voltage	250 V DC conforming to IEC 250 V AC conforming to IEC
Minimum switching voltage	5 V
Resistive rated load	3 A at 250 V AC 10 A at 28 V DC
Maximum switching capacity	84 W, DC circuit 750 VA, AC circuit
Minimum switching capacity	15 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 coil consumption in VA	2...3 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Operate time	20 ms
Average coil resistance	1700 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	96...132 V AC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Product weight	0.086 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 not operating 10 gn in operation
Pollution degree	3

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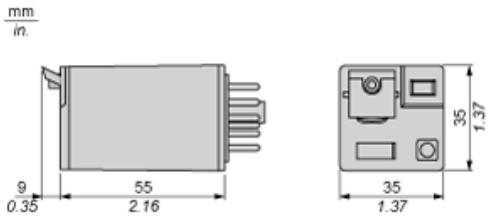
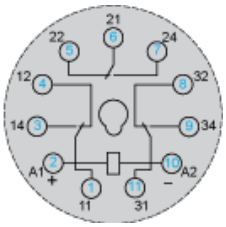
Dimensions



Wiring Diagram

Wiring Diagram

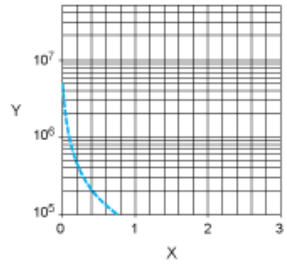


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

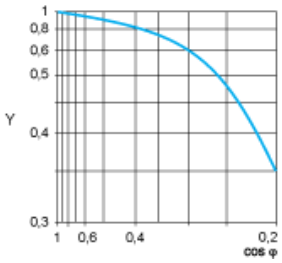
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



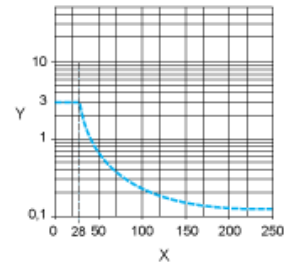
X Switching capacity (kVA)
Y Durability (Number of operating cycles)

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

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