

# 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
[Uiimp] 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

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 intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user 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

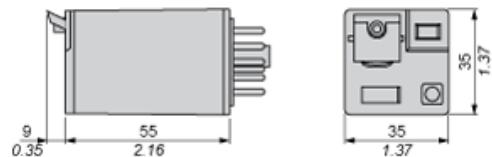
Dielectric strength	1550 V AC between poles 1550 V AC between coil and contact 1500 V AC between contacts
Product certifications	CSA GOST UL
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	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

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mm  
in.



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**Wiring Diagram**

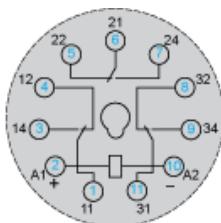
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**Wiring Diagram**

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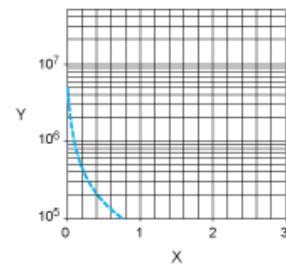


Symbols shown in blue correspond to Nema marking.

### Electrical Durability of Contacts

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

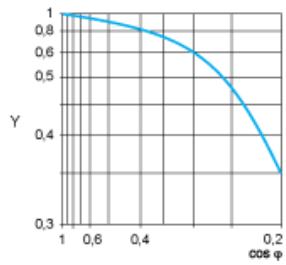
Resistive AC load



X     Switching capacity (kVA)

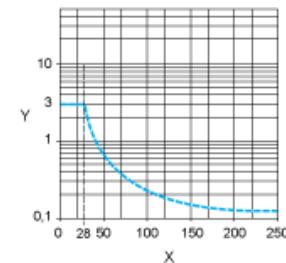
Y     Durability (Number of operating cycles)

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.