

Product datasheet

Specifications



universal plug-in relay - Zelio RUM - 3 C/O - 24 V AC - 10 A - with LED

Local distributor code: 403004425 RUMC32B7

Main

Range of product Harmony Electromechanical Relays

Series name Universal

Product or component type Plug-in relay

Device short name RUM

Contacts type and composition 3 C/O

[Uc] control circuit voltage 24 V AC 50/60 Hz

[Ithe] conventional enclosed thermal current 10 A at -40...55 °C

Status LED With

Control type Lockable test button

Utilisation coefficient 20 %

Disclaimer: 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

Complementary

Shape of pin Cylindrical

[Ui] rated insulation voltage 250 V conforming to IEC
300 V conforming to CSA
300 V conforming to UL

[Uimp] rated impulse withstand voltage 4 kV (1.2/50 µs)

Contacts material AgNi

[Ie] rated operational current 10 A at 277 V AC conforming to UL
10 A at 30 V DC conforming to UL
10 A at 277 V AC (same polarity) conforming to CSA
10 A at 30 V DC conforming to CSA
5 A at 250 V AC (NC) conforming to IEC
5 A at 28 V DC (NC) conforming to IEC
10 A at 250 V AC (NO) conforming to IEC
10 A at 28 V DC (NO) conforming to IEC

Maximum switching voltage 250 V conforming to IEC

Resistive rated load 10 A at 250 V AC
10 A at 28 V DC

Maximum switching capacity 2500 VA/280 W

Minimum switching capacity 170 mW at 10 mA, 17 V

Operating rate <= 18000 cycles/hour no-load
<= 1200 cycles/hour under load

Mechanical durability 5000000 cycles

Electrical durability	100000 cycles for resistive load
Average coil consumption in VA	3 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Operate time	20 ms at nominal voltage
Release time	20 ms at nominal voltage
Average coil resistance	72 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	19.2...26.4 V AC
Protection category	RT I
Test levels	Level A group mounting
Safety reliability data	B10d = 100000
Operating position	Any position
Net weight	0.086 kg
Device presentation	Complete product

Environment

Dielectric strength	1500 V AC between contacts with micro disconnection 2500 V AC between coil and contact with reinforced 2000 V AC between poles with basic
Product certifications	EAC CSA UL
Standards	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation 4 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating
IP degree of protection	IP40
Shock resistance	10 gn (duration = 11 ms) for in operation conforming to EN/IEC 60068-2-27 10 gn (duration = 11 ms) for not operating conforming to EN/IEC 60068-2-27
Pollution degree	2

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	95.0 g
Package 1 Height	3.7 cm
Package 1 width	3.8 cm
Package 1 Length	7.2 cm
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Weight	970.0 g
Package 2 Height	4 cm
Package 2 width	14.6 cm
Package 2 Length	19.8 cm
Unit Type of Package 3	S02

Number of Units in Package 3	60
Package 3 Weight	6.267 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 cm

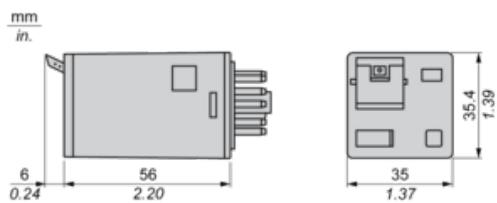
Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile

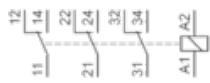
Contractual warranty

Warranty	18 months
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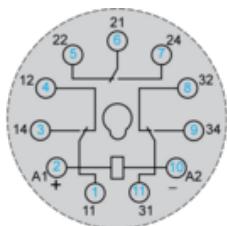
Dimensions



Wiring Diagram



Wiring Diagram

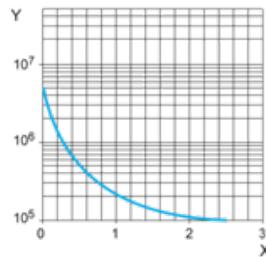


Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

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

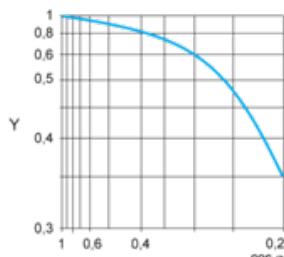
Resistive AC load



X Switching capacity (kVA)

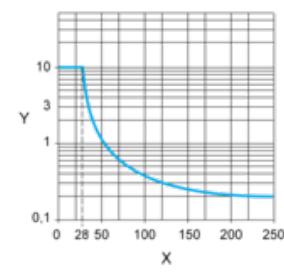
Y Durability (Number of operating cycles)

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.