



Main

Range of product	Zelio Relay
Series name	Power
Product or component type	Plug-in relay
Device short name	RPM
Contacts type and composition	2 C/O
Contacts operation	Standard
Control circuit voltage	48 V AC
[Ithe] conventional enclosed thermal current	15 A at ≤ 55 °C
Status LED	With
Control type	Pushbutton
Coil interference suppression	Without
Utilisation coefficient	20 %

Complementary

[U _i] rated insulation voltage	300 V conforming to UL 300 V conforming to EN/IEC 60947 300 V conforming to CSA 250 V conforming to IEC 250 V conforming to EN/IEC 60947
[U _{imp}] rated impulse withstand voltage	4 kV conforming to IEC 61000-4-5
Contacts material	Silver alloy (Ag/Ni)
[I _e] rated operational current	7.5 A (DC-1) NC conforming to IEC 7.5 A (AC-1) NC conforming to IEC 15 A (DC-1) NO conforming to IEC 15 A (DC-1) conforming to UL 15 A (AC-1) NO conforming to IEC 15 A (AC-1) conforming to UL
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
Load current	15 A at 28 V DC 15 A at 250 V AC
Maximum switching capacity	420 W, DC circuit 3750 VA, AC circuit
Minimum switching capacity	170 mW
Operating rate	≤ 300 cyc/mn (no-load) ≤ 20 cyc/mn (under load)
Mechanical durability	10000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption in W	0.9 W, DC circuit
Average consumption in VA	1.2, AC circuit
Drop-out voltage threshold	≥ 0.15 U _c (AC) ≥ 0.1 U _c DC
Operating time	20 ms between coil energisation and making of the On-delay contact (DC) 20 ms between coil energisation and making of the On-delay contact (AC) 20 ms between coil de-energisation and making of the Off-delay contact (DC) 20 ms between coil de-energisation and making of the Off-delay contact (AC)
Average resistance	770 Ohm, AC circuit at 20 °C +/- 15 %
Rated operational voltage limits	38.4...52.8 V AC

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.

Protection category	RT I
Operating position	Any position
Product weight	0.036 kg

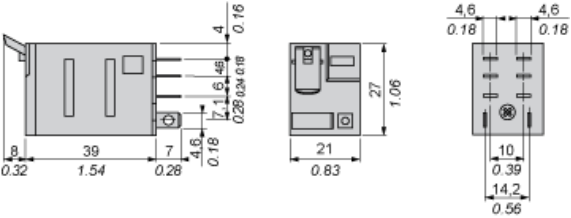
Environment

Dielectric strength	1550 V AC (between poles) 1550 V AC (between coil and contact) 1500 V AC (between contacts)
Standards	CSA C22-2 No 14 EN/IEC 61810-1 (iss. 2) UL 508
Product certifications	CSA UL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	5 gn (f = 10...150 Hz), amplitude +/- 1 mm (on closing) conforming to EN/IEC 60068-2-27 3 gn (f = 10...150 Hz), amplitude +/- 1 mm (on opening) conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	15 gn on opening conforming to EN/IEC 60068-2-27 15 gn on closing conforming to EN/IEC 60068-2-27

Power Relay

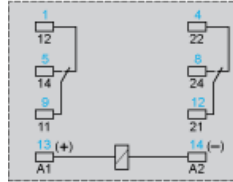
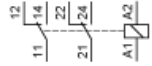
Dimensions

mm
in.



Power Relay

Wiring Diagram



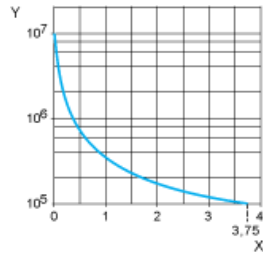
Symbols shown in blue correspond to Nema marking.

RPM Power Relays

Electrical Durability of Contacts

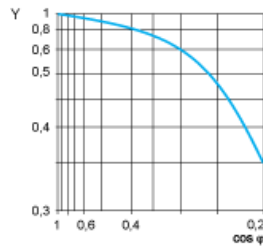
Durability (inductive load) = durability (resistive load) x reduction coefficient.

Resistive AC load



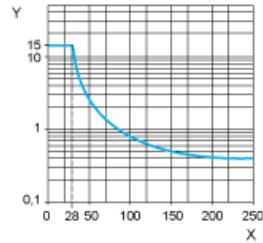
- X Switching capacity (kVA)
- Y Durability (Number of operating cycles)

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