



## Main

Range of product	Zelio Relay
Series name	Power
Product or component type	Plug-in relay
Device short name	RPF
Contacts type and composition	2 NO
Control circuit voltage	120 V AC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[the] conventional enclosed thermal current	30 A at -40...55 °C for 13 mm gap between two relays 25 A at -40...55 °C for relays side by side without a gap
Resistive rated load	30 A at 250 V AC 25 A at 28 V DC
Utilisation coefficient	10 %

## Complementary

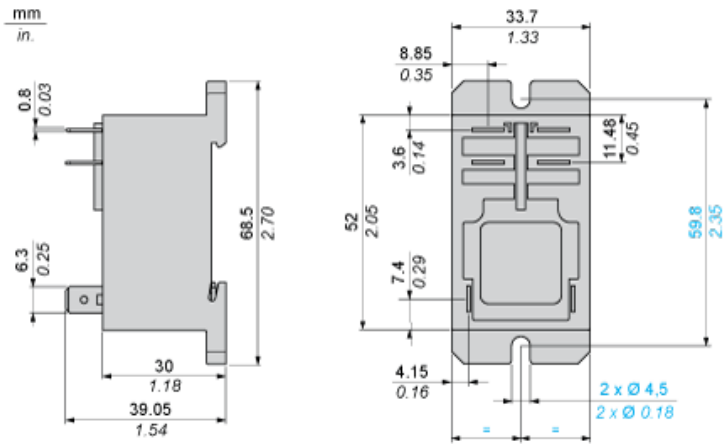
Mounting support	DIN rail Panel
Control circuit voltage limits	96...132 V
[Ie] rated operational current	25 A at 28 V DC (for NO) conforming to IEC 30 A at 250 V AC (for NO) conforming to IEC 20 A at 28 V DC (for NO) conforming to UL 30 A at 277 V AC (for NO) conforming to UL
[Ui] rated insulation voltage	300 V conforming to UL 250 V conforming to IEC
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs
Maximum switching voltage	250 V conforming to IEC
Maximum switching capacity	7500 VA/700 W
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	4 VA at 60 Hz
Drop-out voltage threshold	>= 0.15 U <sub>c</sub>
Operate time	25 ms
Release time	25 ms
Average resistance	4250 Ohm (tolerance +/- 15 %) at 20 °C
Safety reliability data	B10d = 100000
Protection category	RT II
Operating position	Any position
Product weight	0.082 kg

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## Environment

Dielectric strength	1500 V AC between contacts with micro disconnection insulation 4000 V AC between coil and contact with reinforced insulation 2000 V AC between poles with basic insulation
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CE CSA GOST UL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	10 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles not operating 3 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles in operation
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	30 gn not operating 10 gn in operation
Pollution degree	3

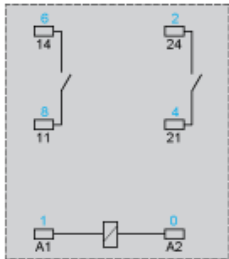
Dimensions



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## Wiring Diagram

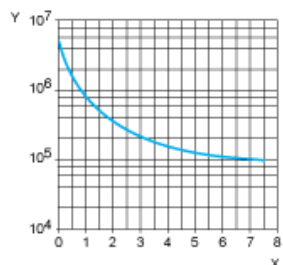
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Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

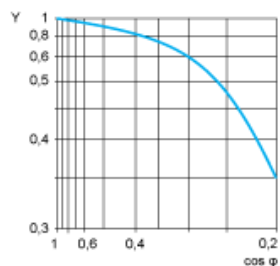
AC Resistive load



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

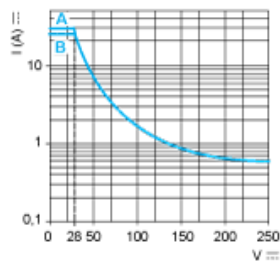
AC Reduction coefficient for inductive load (depending on power factor  $\cos \phi$ )

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



Y reduction coefficient

Maximum switching capacity on DC resistive load



A 30 A  
B 25 A

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