



Main

Commercial Status	Commercialised
Range of product	Zelio Relay
Series name	Power
Product or component type	Plug-in relay
Device short name	RPF
Contacts type and composition	2 C/O
Control circuit voltage	24 V DC
Shape of pin	Flat
Contacts material	Silver tin oxide
[Ithe] 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
Load current	30 A 28 V DC for 13 mm gap between two relays 30 A 250 V AC for 13 mm gap between two relays 25 A 28 V DC for relays side by side without a gap 25 A 250 V AC for relays side by side without a gap
Utilisation coefficient	10 %

Complementary

Mounting support	DIN rail Panel
Rated operational voltage limits	19.2...26.4 V DC
[Ie] rated operational current	3 A at 28 V (DC-1) NC conforming to UL 3 A at 277 V (AC-1) NC conforming to UL 3 A at 28 V (DC-1) NC conforming to IEC 3 A at 250 V (AC-1) NC conforming to IEC 20 A at 28 V (DC-1) NO conforming to UL 30 A at 277 V (AC-1) NO conforming to UL 30 A at 28 V (DC-1) NO conforming to IEC 30 A at 250 V (AC-1) NO conforming to IEC
[Ui] rated insulation voltage	300 V conforming to UL 60947-4-1A 250 V conforming to EN/IEC 61810-1
[Uimp] rated impulse withstand voltage	4 kV
Minimum switching current	10 mA
Minimum switching voltage	17 V
Maximum switching voltage	250 V DC conforming to IEC 250 V AC conforming to IEC
Maximum switching capacity	7500 VA/840 W 13 mm gap between two relays 6250 VA/700 W relays side by side without a gap
Minimum switching capacity	170 mW
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load C/O
Average consumption in W	1.7 W
Drop-out voltage threshold	DC: >= 0.1 U _c
Operating time	20 ms between coil energisation and making of the On-delay contact 20 ms between coil de-energisation and making of the Off-delay contact
Coil resistance	350 Ohm at 20 °C +/- 10 %
Protection category	RT II
Operating position	Any position

CAD overall width	33.7 mm
CAD overall height	68.5 mm
CAD overall depth	39.2 mm
Product weight	0.082 kg

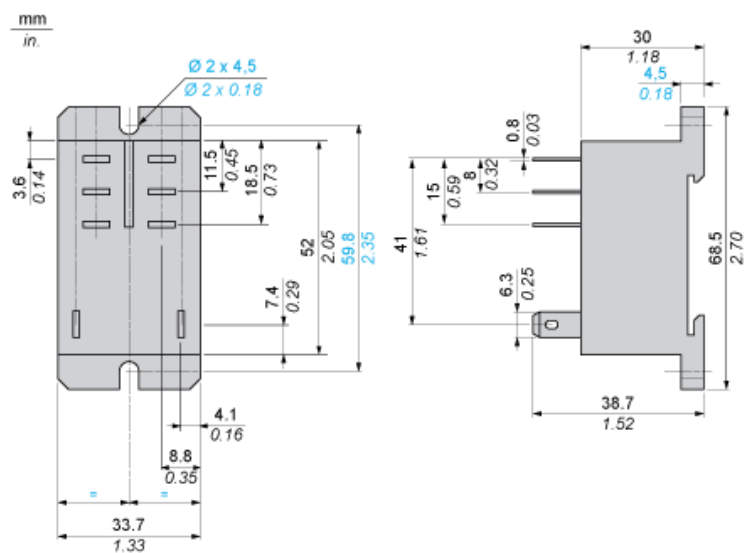
Environment

Dielectric strength	1500 V AC between contacts, insulation: micro disconnection 2000 V AC between poles, insulation: basic 4000 V AC between coil and contact, insulation: reinforced
Standards	CSA C22-2 No 14 EN/IEC 61810-1 UL 60947-4-1A
Product certifications	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

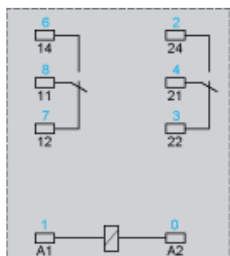
Contractual warranty

Period	18 months
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Dimensions



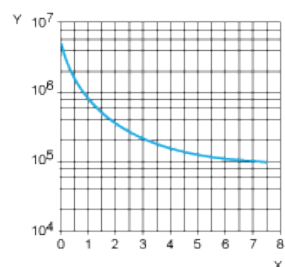
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

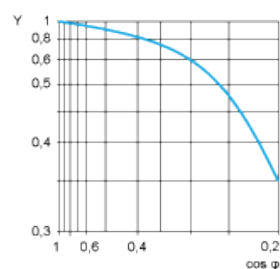
AC Resistive load



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

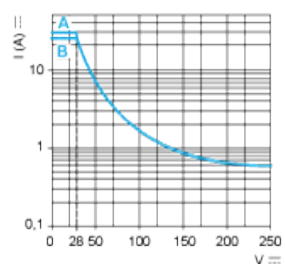
AC Reduction coefficient for inductive load (depending on power factor $\cos \phi$)

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