Product datasheet
Characteristics

RPF2AP7
power relay plug-in - Zelio RPF - 2 NO - 230 V AC - 30 A

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
[Uc] control circuit voltage	230 V AC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[Ithe] conventional enclosed thermal current	25 A at -40...55 °C for relays side by side without a gap 30 A at -40...55 °C for 13 mm gap between two relays
Load current	25 A at 28 V DC 30 A at 250 V AC
Utilisation coefficient	10 %

Complementary

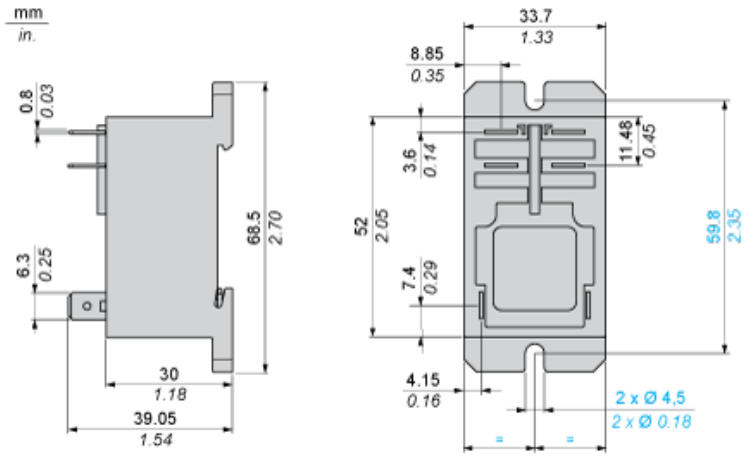
Mounting support	DIN rail Panel
Control circuit voltage limits	184...253 V
[Ie] rated operational current	30 A at 250 V AC (for NO) conforming to IEC 30 A at 277 V AC (for NO) conforming to UL 20 A at 28 V DC (for NO) conforming to UL 25 A at 28 V DC (for NO) conforming to IEC
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL
[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
Minimum switching capacity	6000 mW (500 mA / 12 V) for NO
Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Average consumption	4 VA at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc
Operating time	25 ms
Reset time	25 ms
Average resistance	15600 Ohm (tolerance +/- 15 %) at 20 °C
Safety reliability data	B10d = 100000
Protection category	RT II
Operating position	Any position
Product weight	0.082 kg
Device presentation	Complete product

Environment

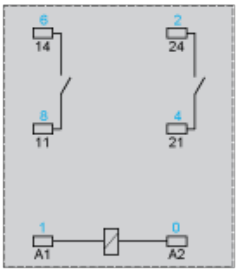
dielectric strength	2000 V AC between poles with basic insulation 1500 V AC between contacts with micro disconnection insulation 4000 V AC between coil and contact with reinforced insulation

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	3 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles in operation 10 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles not operating
IP degree of protection	IP40 conforming to EN/IEC 60529
shock resistance	10 gn in operation 30 gn not operating
pollution degree	3

Dimensions



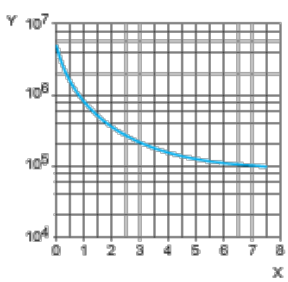
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

AC Resistive load

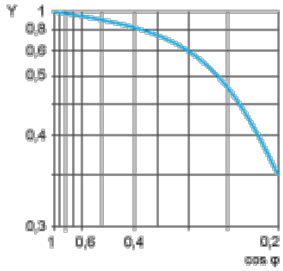


X Switching capacity (kVA)

Y Durability (number of operating cycles)

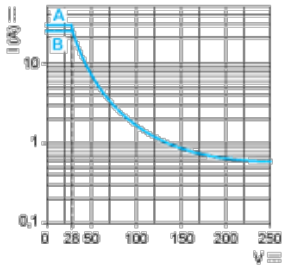
AC Reduction coefficient for inductive load (depending on power factor cos ϕ)

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.