Product data sheet
Characteristics

RPF2AFD
power relay plug-in - Zelio RPF - 2 NO - 110 V DC - 25 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
Control circuit voltage	110 V DC
Shape of pin	Flat
Contacts material	Silver tin oxide
Resistive rated load	30 A at 250 V AC 25 A at 28 V DC
Utilisation coefficient	10 %

Complementary

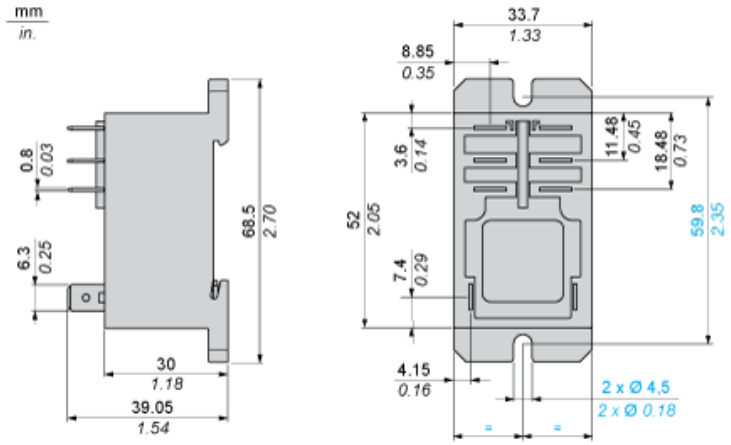
Mounting support	DIN rail Panel
Control circuit voltage limits	88...121 V
[Ie] rated operational current	25 A at 28 V DC (for NO) conforming to IEC 30 A at 250 V AC (for NO) conforming to IEC 20 A at 28 V DC (for NO) conforming to UL 30 A at 277 V AC (for NO) conforming to UL
[Ui] rated insulation voltage	250 V conforming to EN/IEC 60947
[Uimp] rated impulse withstand voltage	4 kV IEC 61000-4-5
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	1.7 W
Drop-out voltage threshold	DC : >= 0.1 Uc
Operate time	20 ms
Release time	20 ms
Average resistance	7255 Ohm (tolerance +/- 10 %) at 20 °C
Safety reliability data	B10d = 100000
Protection category	RT IV
Operating position	Any position
Product weight	0.082 kg

Environment

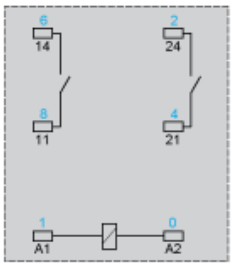
Dielectric strength	1500 V AC between contacts with micro disconnection insulation 4000 V AC between coil and contact with reinforced insulation 2000 V AC between poles with basic insulation
Standards	EN/IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CE CSA GOST UL
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles not operating conforming to EN/IEC 60068-2-27 10 gn (+/- 1 mm, f = 10...150 Hz) 5 cycles in operation conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn not operating conforming to EN/IEC 60068-2-27 10 gn in operation conforming to EN/IEC 60068-2-27
Pollution degree	3

Dimensions Drawings

Dimensions



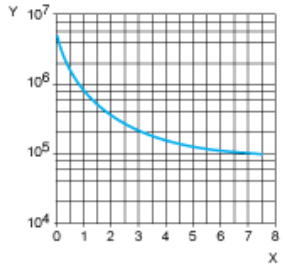
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

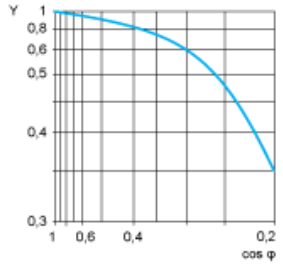
AC Resistive load



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

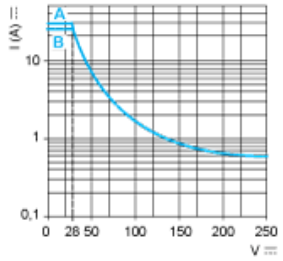
AC Reduction coefficient for inductive load (depending on power factor cos ϕ)

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.