

RPF2BBD

power relay plug-in - Zelio RPF - 2 CO - 24 V DC - 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 C/O
[Uc] control circuit voltage	24 V DC
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	19.2...26.4 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 3 A at 250 V AC (for NC) conforming to IEC 3 A at 28 V DC (for NC) conforming to IEC 3 A at 277 V AC (for NC) conforming to UL 3 A at 28 V DC (for NC) 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 170 mW (10 mA / 6 V) for NC
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	1.7 W
Drop-out voltage threshold	>= 0.1 Uc
Operating time	25 ms
Reset time	25 ms
Average resistance	350 Ohm (tolerance +/- 10 %) 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

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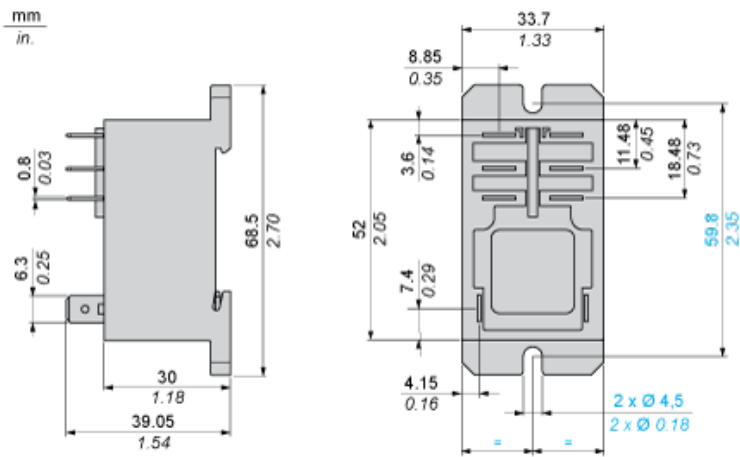
Environment

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

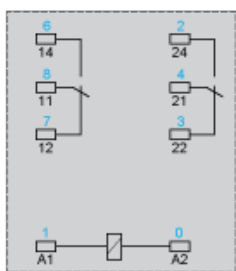
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0801 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Dimensions



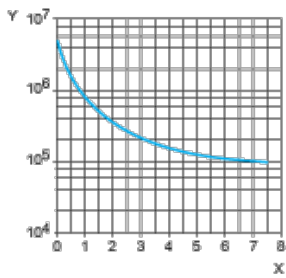
Wiring Diagram



Symbols shown in blue correspond to Nema marking.

Electrical Durability of Contacts

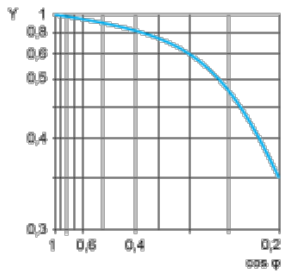
AC Resistive load



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

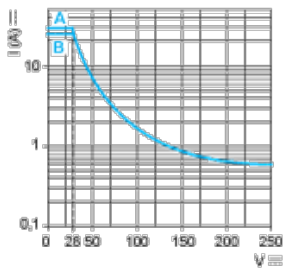
AC Reduction coefficient for inductive load (depending on power factor cos ϕ)

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.