RPF2BBD

power relay plug-in - Zelio RPF - 2 CO - 24 V DC - 25 A



Main Commercial Status Commercialised Range of product Zelio Relay Series name Power Product or component Plug-in relay type RPF Device short name Contacts type and com-2 C/O position Control circuit voltage 24 V DC Shape of pin Flat Contacts material Silver tin oxide [Ithe] conventional en-30 A at -40...55 $^{\circ}\text{C}$ for 13 mm gap between two reclosed thermal current 25 A at -40...55 °C for relays side by side without a 30 A 28 V DC for 13 mm gap between two relays Load current 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

10 %

Complementary

Mounting support	DIN rail Panel
Rated operational voltage limits	19.226.4 V DC
[le] 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 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 loadC/O
Average consumption in W	1.7 W
Drop-out voltage threshold	DC: >= 0.1 Uc
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

Utilisation coefficient

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

Environment

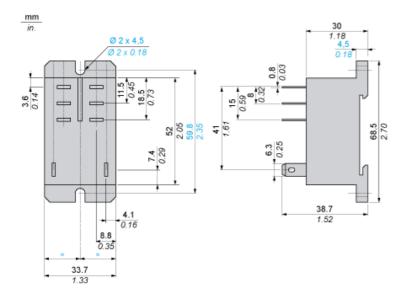
Dielectric strength	1500 V AC between contacts, insulation: micro disconnection
	2000 V AC between poles, insulation: basic
	4000 V AC between coil and contact, insulation: reinforced
Standards	CSA C22-2 No 14
	EN/IEC 61810-1
	UL 60947-4-1A
Product certifications	CSA
	GOST
	UL
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-4055 °C
Vibration resistance	10 gn(+/- 1 mm, f = 10150 Hz)5 cycles not operating
	3 gn(+/- 1 mm, f = 10150 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

<u>-</u>		
Period	18 months	



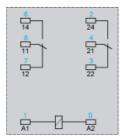
Dimensions



Product data sheet Connections and Schema

RPF2BBD

Wiring Diagram



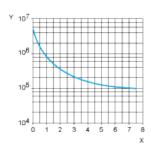
Symbols shown in blue correspond to Nema marking.

Product data sheet Performance Curves

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Electrical Durability of Contacts

AC Resistive load

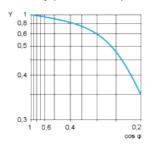


X Switching capacity (kVA)

Y Durability (number of operating cycles)

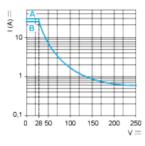
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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



Y reduction coefficient

Maximum switching capacity on DC resistive load



A 30 A