Product data sheet Characteristics

RPF2BB7

power relay plug-in - Zelio RPF - 2 CO - 24 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 C/O
Control circuit voltage	24 V AC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[Ithe] conventional en- closed thermal current	30 A at -4055 °C for 13 mm gap between two relays 25 A at -4055 °C for relays side by side without a gap
Resistive rated load	30 A at 250 V AC 25 A at 28 V DC
Utilisation coefficient	10 %

Complementary

Complementary		
Mounting support	DIN rail	
	Panel	
Control circuit voltage limits	19.226.4 V	
[le] rated operational current	3 A at 28 V DC (for NC) conforming to IEC 3 A at 250 V AC (for NC) conforming to IEC 3 A at 28 V DC (for NC) conforming to UL 3 A at 277 V AC (for NC) conforming to UL 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	300 V conforming to UL 250 V conforming to IEC	
[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	
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	4 VA at 60 Hz	
Drop-out voltage threshold	>= 0.15 Uc	
Operate time	25 ms	
Release time	25 ms	
Average resistance	170 Ohm (tolerance +/- 15 %) at 20 °C	
Safety reliability data	B10d = 100000	
Protection category	RT II	
Operating position	Any position	
Product weight	0.082 kg	

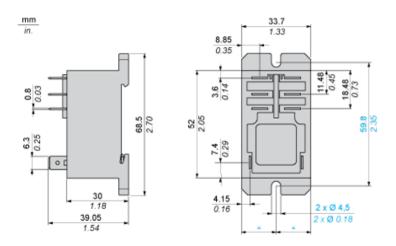
The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interested for a set of for determining suitability or intelability of these products for specific user applications. It is the documentation is not integrator to perform the appropriate and complete risk analysis, evaluating of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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	-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

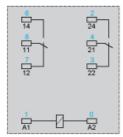


Dimensions



RPF2BB7

Wiring Diagram



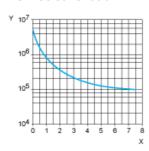
Symbols shown in blue correspond to Nema marking.

Product data sheet Performance Curves

RPF2BB7

Electrical Durability of Contacts

AC Resistive load

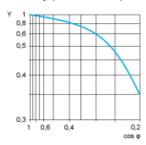


X Switching capacity (kVA)

Y Durability (number of operating cycles)

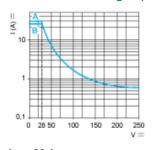
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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.