RPF2BB7

Power plug-in relay, 30 A, 2 CO, 24 V AC





Main

Range of product	Harmony 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 AC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[Ithe] conventional enclosed thermal current	25 A -40131 °F (-4055 °C) relays side by side without a gap 30 A -40131 °F (-4055 °C) 13 mm gap between two relays
Resistive rated load	25 A 28 V DC 30 A 250 V AC
Utilisation coefficient	10 %

Complementary

Complementary	D01 11
Mounting support	DIN rail Panel
Control circuit voltage limits	19.226.4 V
[le] rated operational current	30 A 277 V AC) NO UL 20 A 28 V DC) NO UL
	30 A 250 V AC) NO IEC
	25 A 28 V DC) NO IEC
	3 A 277 V AC) NC UL
	3 A 28 V DC) NC UL
	3 A 250 V AC) NC IEC
	3 A 28 V DC) NC IEC
[Ui] rated insulation voltage	250 V IEC
	300 V UL
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 μs
Maximum switching voltage	250 V IEC
Maximum switching capacity	7500 VA/700 W
Minimum recommended switching capacity	6000 mW 500 mA / 12 V NO
	170 mW 10 mA / 6 V NC
Operating rate	<= 1200 cycles/hour under load
	<= 18000 cycles/hour no-load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive
Average coil consumption	4 VA 60 Hz
Drop-out voltage threshold	>= 0.15 Uc
Operate time	25 ms
Release time	25 ms
Average resistance	170 Ohm at 68 °F (20 °C) +/- 15 %
Safety reliability data	B10d = 100000
Protection category	RT II
Test levels	Level A
Operating position	Any position
CAD overall width	1.33 in (33.7 mm)

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.

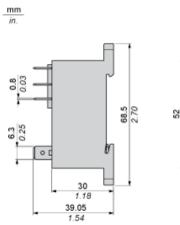
CAD overall height	2.70 in (68.5 mm)
CAD overall depth	1.54 in (39.2 mm)
Net Weight	0.18 lb(US) (0.082 kg)
Device presentation	Complete product
Device presentation	- Complete product
Environment	
Dielectric strength	2000 V AC between poles with basic
Dielectric Strengtri	4000 V AC between coil and contact with reinforced 1500 V AC between contacts with micro disconnection
Standards	UL 508 EN/IEC 61810-1 CSA C22.2 No 14
Product certifications	UL CE GOST CSA
Ambient air temperature for storage	-40185 °F (-4085 °C)
Ambient air temperature for operation	-40131 °F (-4055 °C)
Vibration resistance	3 gn +/- 1 mm 10150 Hz)5 cycles in operation 10 gn +/- 1 mm 10150 Hz)5 cycles not operating
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gnin operation 30 gnnot operating
Pollution degree	3
Pollution degree Ordering and shipping details Category	3 21127 - ZELIO ICE CUBE RELAYS
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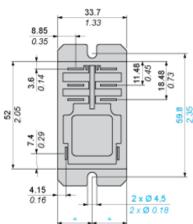
	compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) [™] EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	€Yes
China RoHS Regulation	☑ China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Warranty 18 months

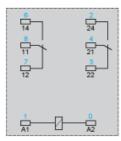
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Dimensions





Wiring Diagram



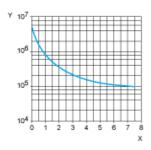
Symbols shown in blue correspond to Nema marking.

Product data sheet Performance Curves

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Electrical Durability of Contacts

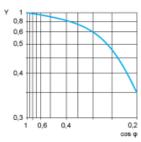
AC Resistive load



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

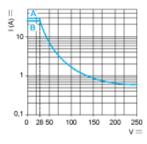
AC Reduction coefficient for inductive load (depending on power factor $\cos \phi$)

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.