Product data sheet

Specification





power relay, Harmony electromechanical relays, DIN rail or panel mount relay, 30A, 2CO, 120V AC

RPF2BF7

Product availability: Stock - Normally stocked in distribution facility

Price*: 13.30 USD

Main

Range Of Product	Harmony Electromechanical Relays	
Series Name	Power	
Product Or Component Type	DIN rail/panel mount relay	
Device Short Name	RPF	
Contacts Type And Composition	2 C/O	
[Uc] Control Circuit Voltage	120 V AC 50/60 Hz	
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

Mounting Support	DIN rail Panel	
Control Circuit Voltage Limits	96132 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 250 V AC) 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	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	4250 Ohm at 68 °F (20 °C) +/- 15 %
Safety Reliability Data	B10d = 100000
Protection Category	RT II
Test Levels	Level A group mounting
Operating Position	Any position
Cad Overall Width	1.33 in (33.7 mm)
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

Environment

Dielectric Strength	2000 V AC between poles with basic
	4000 V AC between coil and contact with reinforced 1500 V AC between contacts with micro disconnection
	1000 V //O Dethice of contacts with milities also an incode.
Standards	IEC 61810-1
	UL 508
	CSA C22.2 No 14
Product Certifications	UL
	GOST
	CE
	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 IEC 60529
Shock Resistance	10 gnin operation
	30 gnnot operating
Pollution Degree	3

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
Gtin	3389119401609
Returnability	Yes
Country Of Origin	CN

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	1.65 in (4.200 cm)	
Package 1 Width	1.38 in (3.500 cm)	
Package 1 Length	2.72 in (6.900 cm)	
Package 1 Weight	3.17 oz (90.000 g)	
Unit Type Of Package 2	BB1	
Number Of Units In Package 2	10	
Package 2 Height	1.97 in (5.000 cm)	
Package 2 Width	5.91 in (15.000 cm)	
Package 2 Length	7.87 in (20.000 cm)	
Package 2 Weight	32.10 oz (910.000 g)	
Unit Type Of Package 3	S02	
Number Of Units In Package 3	60	
Package 3 Height	5.91 in (15.000 cm)	
Package 3 Width	11.81 in (30.000 cm)	
Package 3 Length	15.75 in (40.000 cm)	
Package 3 Weight	13.44 lb(US) (6.098 kg)	

Contractual warranty

Warranty 18 months

Sustainability Green Premium*

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Reach Free Of Svhc



Rohs Exemption Information

Yes

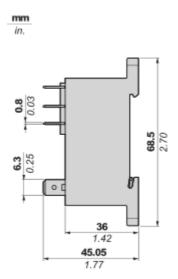
Certifications & Standards

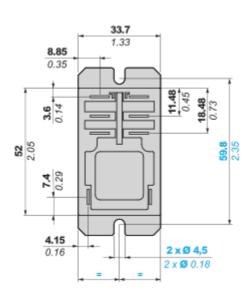
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
California Proposition 65	WARNING: This product can expose you to chemicals including: Nickel 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

RPF2BF7

Dimensions Drawings

Dimensions

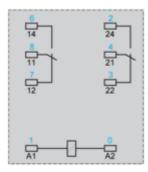




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Connections and Schema

Wiring Diagram



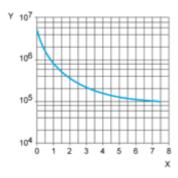
Symbols shown in blue correspond to Nema marking.

RPF2BF7

Performance Curves

Electrical Durability of Contacts

AC Resistive load

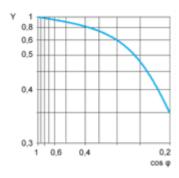


X Switching capacity (kVA)

Y Durability (number of operating cycles)

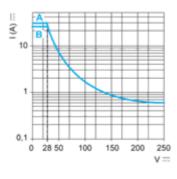
AC Reduction coefficient for inductive load (depending on power factor $\cos \phi$)

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.