

Product data sheet

Specifications



power relay, Harmony
electromechanical relays, DIN rail or
panel mount relay, 30A, 2NO, 120V
AC

RPF2AF7

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Electromechanical Relays
Series name	RPF series
Product or Component Type	DIN rail/panel mount relay
Contacts type and composition	2 NO
Relay Type	Power relay
[Uc] control circuit voltage	120 V AC 50/60 Hz
Status LED	Without
Control Type	Without lockable test button
[Ithe] conventional enclosed thermal current	25 A -40...131 °F (-40...55 °C) relays side by side without a gap 30 A -40...131 °F (-40...55 °C) 13 mm gap between two relays

Complementary

Control circuit voltage limits	96...132 V
[Ie] 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
Average consumption	4 VA 60 Hz
CAD overall width	1.3 in (33.7 mm)
CAD overall height	2.7 in (68.5 mm)
CAD overall depth	1.5 in (39.2 mm)
Compatibility code	RPF
[Ui] rated insulation voltage	250 V IEC 300 V UL
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	>= 0.15 Uc
minimum switching current	500 mA
Maximum switching capacity	7500 VA/700 W
Average resistance	4250 Ohm at 68 °F (20 °C) +/- 15 %
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive
Safety reliability data	B10d = 100000

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Utilisation coefficient	10 %
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
[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs
Protection category	RT II
Pollution degree	3
Mounting Support	DIN rail Panel
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	Silver tin oxide
Shape of pin	Flat (faston type)
Product Weight	0.181 lb(US) (0.082 kg)

Environment

Ambient air temperature for operation	-40...131 °F (-40...55 °C)
IP degree of protection	IP40 conforming to IEC 60529
Standards	CSA C22.2 No 14 UL 508 IEC 61810-1
Product Certifications	UL CSA GOST CE
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Vibration resistance	3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 10 gn +/- 1 mm 10...150 Hz)5 cycles not operating
Shock resistance	10 gnin operation 30 gnnot operating

Ordering and shipping details

Category	US10CP221127
Discount Schedule	0CP2
GTIN	3389119401548
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.339 in (3.400 cm)
Package 1 Width	1.811 in (4.600 cm)

Package 1 Length	2.717 in (6.900 cm)
Package weight(Lbs)	2.998 oz (85.000 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	2.047 in (5.200 cm)
Package 2 Width	5.709 in (14.500 cm)
Package 2 Length	7.874 in (20.000 cm)
Package 2 Weight	32.487 oz (921.000 g)
Unit Type of Package 3	S02
Number of Units in Package 3	60
Package 3 Height	5.906 in (15.000 cm)
Package 3 Width	11.811 in (30.000 cm)
Package 3 Length	15.748 in (40.000 cm)
Package 3 Weight	12.868 lb(US) (5.837 kg)

Contractual warranty

Warranty (in months)	18
----------------------	----



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	28 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	27 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Free of Substances of Very High Concern above the threshold
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

Use Longer



Lifetime extension

Repair	No
--------	----

Use Again

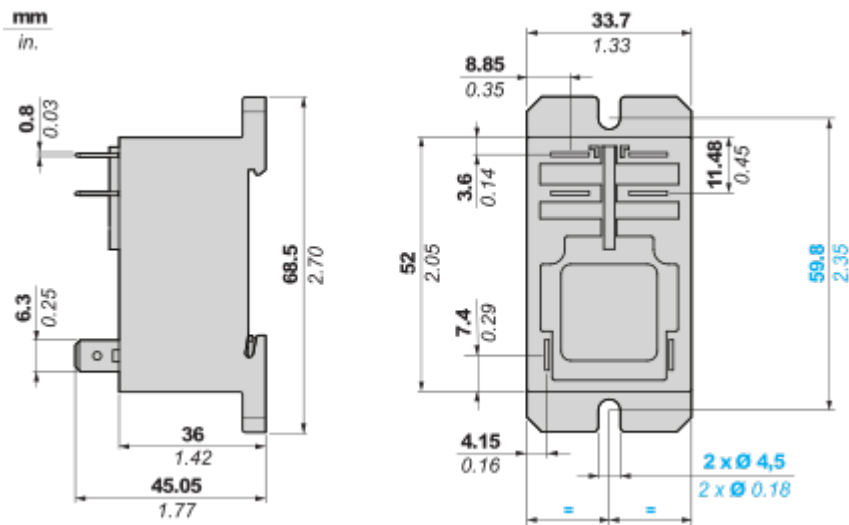


Repack and remanufacture

Recyclability potential, in %	1
Circularity Profile	No need of specific recycling operations
Take-back	No

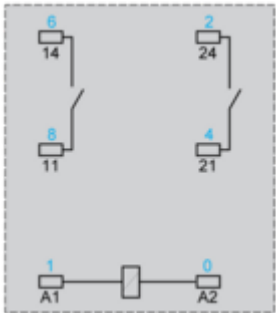
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

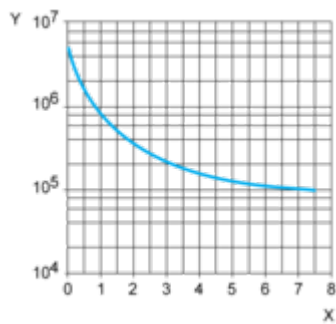


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

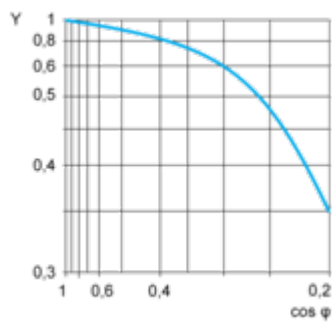
AC Resistive load



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

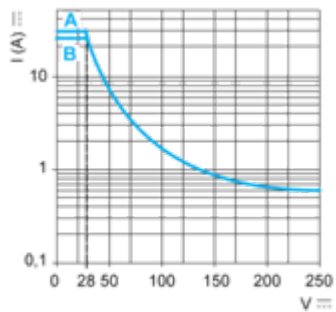
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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



Y reduction coefficient

Maximum switching capacity on DC resistive load

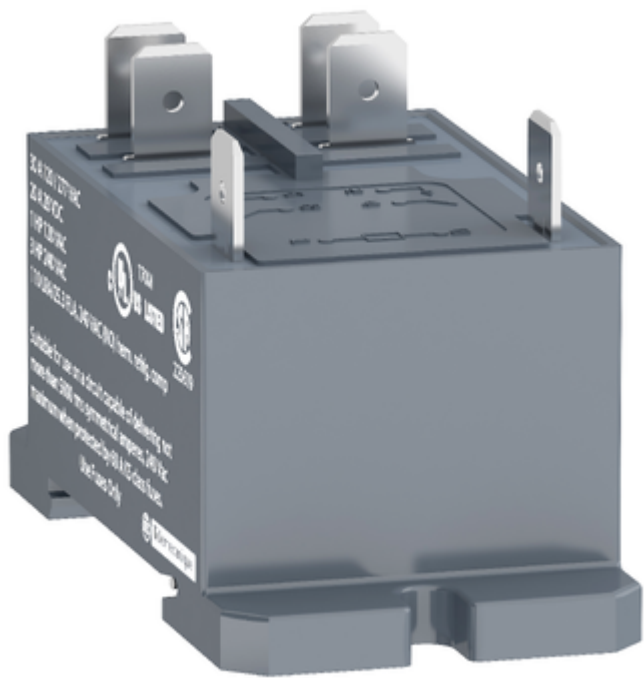


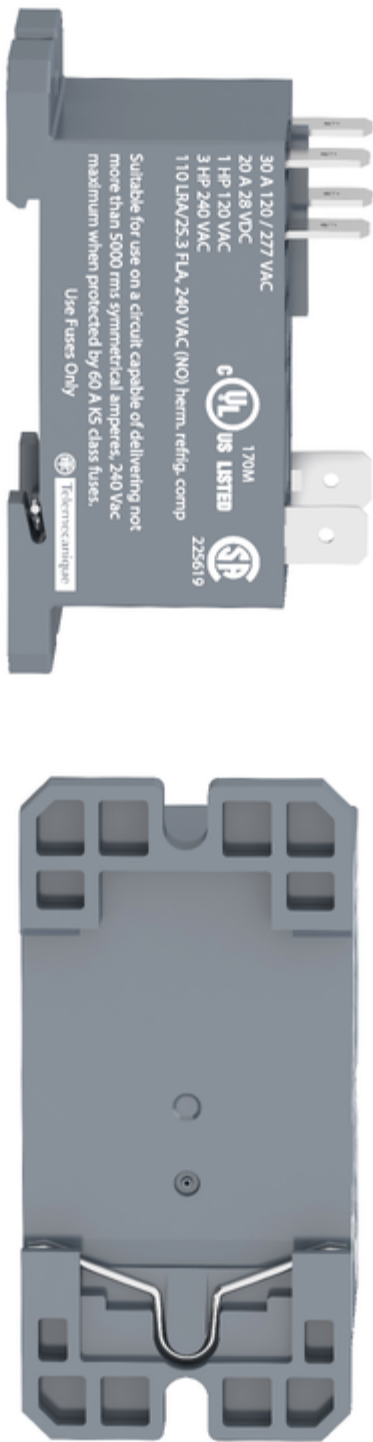
A 30 A
B 25 A

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

Image of product / Alternate images

Alternative





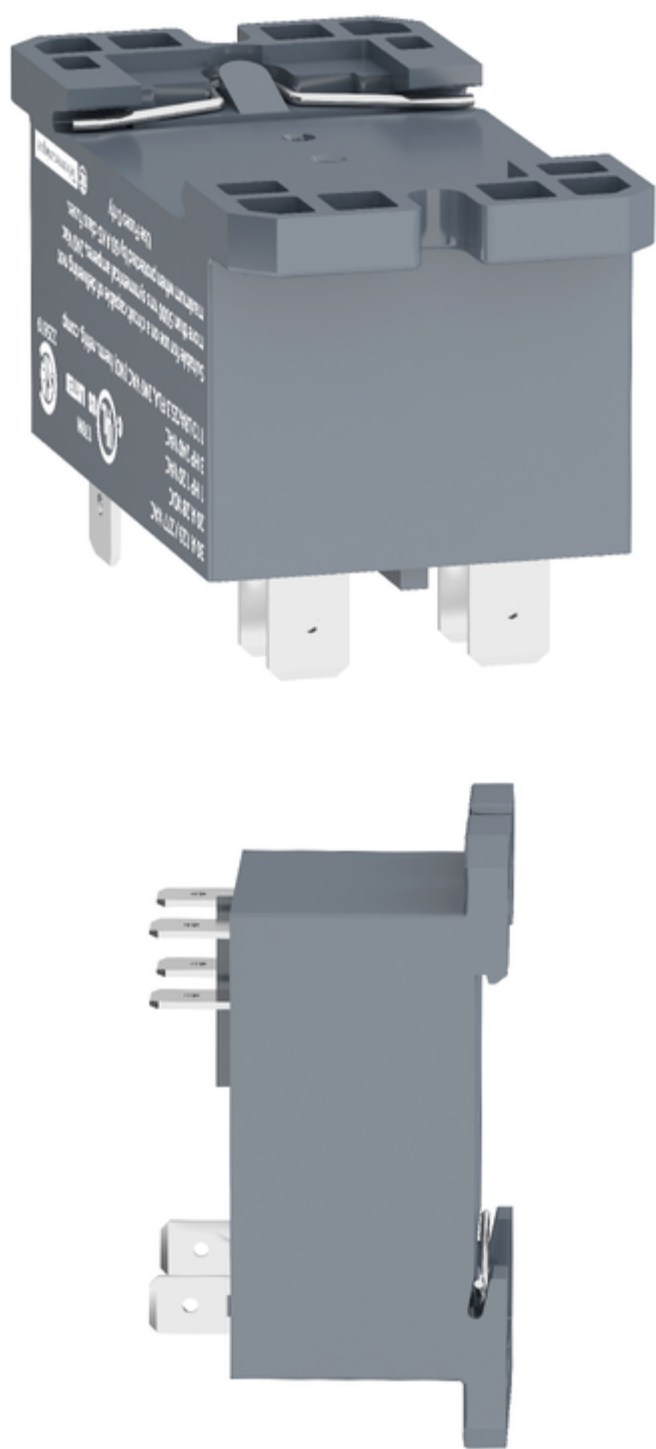


Image of product in real life situation

