

Product datasheet

Specifications



power relay plug-in - Harmony RPF - 2 CO - 230 V AC - 30 A

Local distributor code:

398068725

RPF2BP7

EAN Code: 3389119401630

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 C/O
Relay type	Power relay
[Uc] control circuit voltage	230 V AC 50/60 Hz
status LED	Without
Control type	Without lockable test button
[Ithe] conventional enclosed thermal current	25 A at -40...55 °C relays side by side without a gap 30 A at -40...55 °C 13 mm gap between two relays

Complementary

Control circuit voltage limits	184...253 V
[Ie] rated operational current	30 A at 277 V (AC) NO conforming to UL 20 A at 28 V (DC) NO conforming to UL 30 A at 250 V (AC) NO conforming to IEC 25 A at 28 V (DC) NO conforming to IEC 3 A at 277 V (AC) NC conforming to UL 3 A at 28 V (DC) NC conforming to UL 3 A at 250 V (AC) NC conforming to IEC 3 A at 28 V (DC) NC conforming to IEC
Average consumption	4 VA at 60 Hz
CAD overall width	33.7 mm
CAD overall height	68.5 mm
CAD overall depth	39.2 mm
Compatibility code	RPF
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL
Maximum switching voltage	250 V conforming to IEC
Drop-out voltage threshold	$\geq 0.15 U_c$
minimum switching current	500 mA
Maximum switching capacity	7500 VA/700 W
Average resistance	15600 Ohm at 20 °C +/- 15 %
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Safety reliability data	B10d = 100000

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 during 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)
Net weight	0.082 kg

Environment

Ambient air temperature for operation	-40...55 °C
IP degree of protection	IP40 conforming to IEC 60529
Standards	UL 508 CSA C22.2 No 14 IEC 61810-1
Product certifications	UL CE CSA GOST
Ambient air temperature for storage	-40...85 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation 10 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating
Shock resistance	10 gn for in operation 30 gn for not operating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.000 cm
Package 1 Width	3.500 cm
Package 1 Length	6.900 cm
Package 1 Weight	90.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	4.000 cm
Package 2 Width	20.000 cm
Package 2 Length	14.500 cm

Package 2 Weight	906.000 g
Unit Type of Package 3	S02
Number of Units in Package 3	60
Package 3 Height	15.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	6.050 kg

Logistical informations

Country of origin CN

Contractual warranty

Warranty 18 months

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

[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](#)

Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation

[REACH Declaration](#)

Use Again

Repack and remanufacture

End of life manual availability

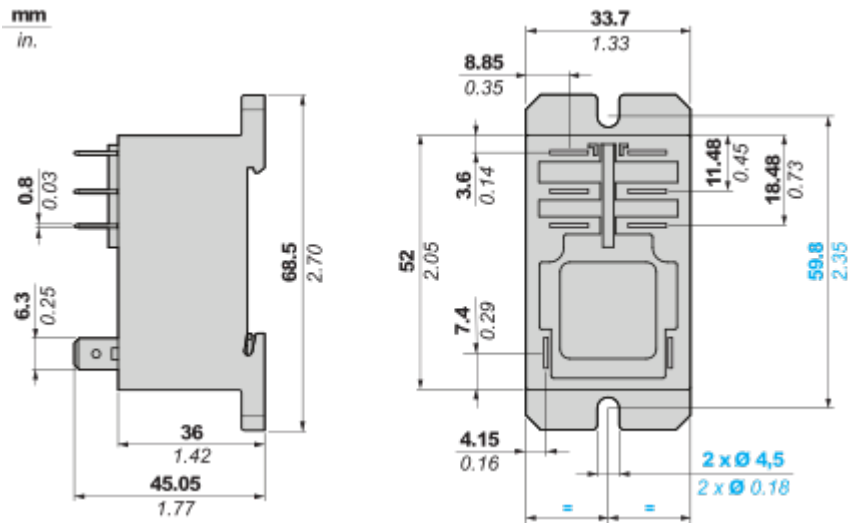
No need of specific recycling operations

Take-back

No

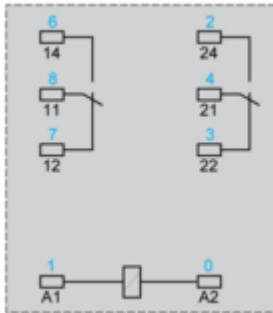
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

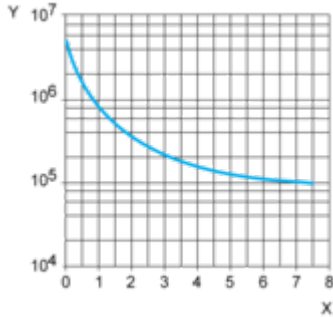


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

AC Resistive load

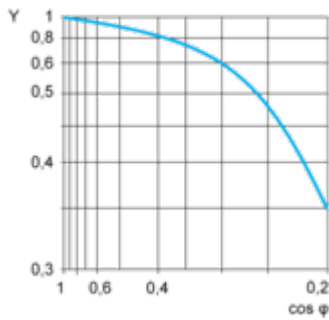


X Switching capacity (kVA)

Y Durability (number of operating cycles)

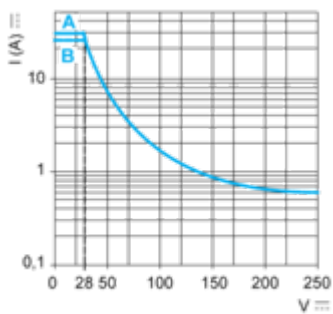
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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.

Technical Illustration

Dimensions

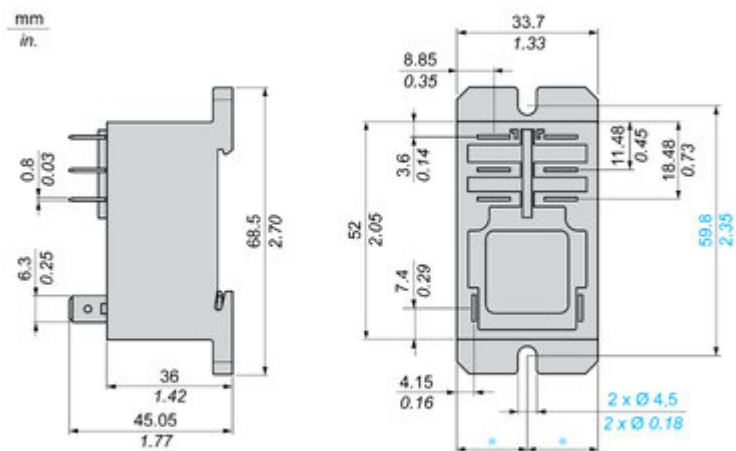


Image of product / Alternate images

Alternative





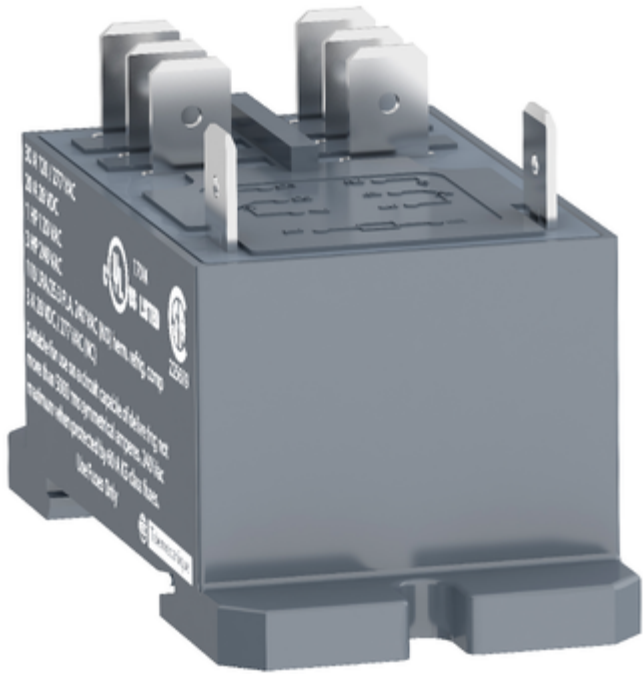


Image of product in real life situation

