

Product data sheet

Specifications



power relay plug-in - Harmony RPF - 2 CO - 110 V DC - 25 A

RPF2BFD

⚠ Discontinued on: Jan 18, 2021

⚠ Discontinued

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	110 V DC

Complementary

Control circuit voltage limits	88...121 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 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
Average consumption	1.7 W
Compatibility code	RPF
[Ui] rated insulation voltage	250 V EN/IEC 60947
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	$\geq 0.1 U_c$ DC
Maximum switching capacity	7500 VA/700 W
Average resistance	7255 Ohm 68 °F (20 °C) +/- 10 %
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles resistive
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 basic 4000 V AC between coil and contact reinforced 1500 V AC between contacts micro disconnection
[Uimp] rated impulse withstand voltage	4 kV IEC 61000-4-5
Protection category	RT IV

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

Pollution degree	3
Mounting support	DIN rail Panel
Operating position	Any position
Device presentation	Complete product
Contacts material	Silver tin oxide
Shape of pin	Flat
Net 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 EN/IEC 60529
Standards	EN/IEC 61810-1 CSA C22.2 No 14 UL 508
Product certifications	CE CSA GOST UL
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	10 gn +/- 1 mm 10...150 Hz)5 cycles in operation EN/IEC 60068-2-27 3 gn +/- 1 mm 10...150 Hz)5 cycles not operating EN/IEC 60068-2-27
Shock resistance	10 gnin operation EN/IEC 60068-2-27 10 gnnot operating EN/IEC 60068-2-27

Contractual warranty

Warranty (in months)	18
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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	30 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.8 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]	29 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.

Use Longer



Lifetime extension

Repair	No
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Use Again

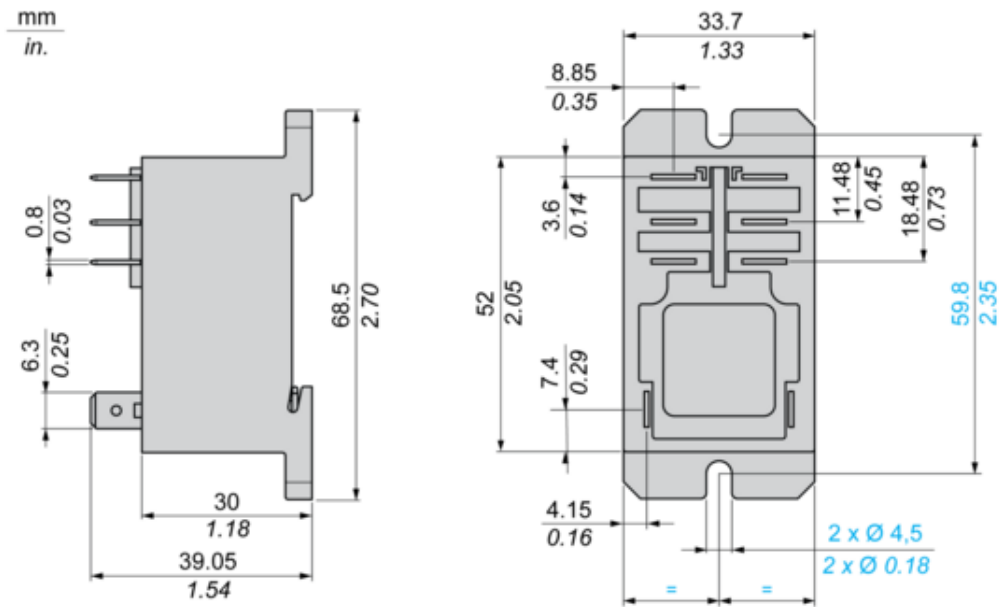


Repack and remanufacture

Recyclability potential, in %	0.638380706287683
Circularity Profile	No need of specific recycling operations

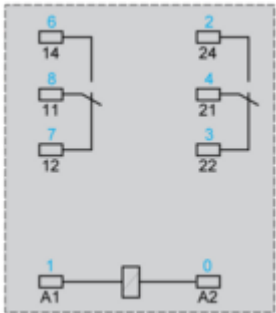
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram

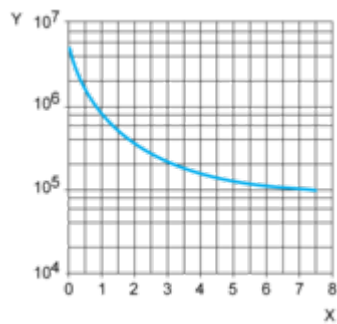


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

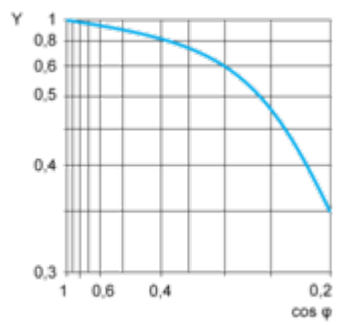
AC Resistive load



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

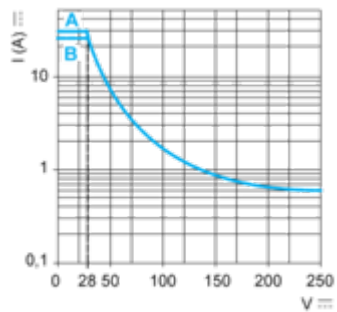
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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

