

# Product datasheet

Specifications



## power relay plug-in - Harmony RPF - 2 NO - 110 V DC - 25 A

RPF2AFD

⚠ Discontinued on: 2 Apr 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 NO
[Uc] control circuit voltage	110 V DC
Shape of pin	Flat
Contacts material	Silver tin oxide
Resistive rated load	25 A at 28 V DC 30 A at 250 V AC
Utilisation coefficient	10 %

### Complementary

Mounting support	DIN rail Panel
Control circuit voltage limits	88...121 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
[Ui] rated insulation voltage	250 V conforming to EN/IEC 60947
[Uimp] rated impulse withstand voltage	4 kV conforming to IEC 61000-4-5
Maximum switching voltage	250 V conforming to IEC
Maximum switching capacity	7500 VA/700 W
Minimum recommended switching capacity	170 mW
Operating rate	<= 1200 cycles/hour under load <= 18000 cycles/hour no-load
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Average coil consumption	1.7 W
Drop-out voltage threshold	>= 0.1 U <sub>c</sub> DC
Operate time	20 ms
Release time	20 ms

<b>Average resistance</b>	7255 Ohm at 20 °C +/- 10 %
<b>Safety reliability data</b>	B10d = 100000
<b>Protection category</b>	RT IV
<b>Operating position</b>	Any position
<b>Net weight</b>	0.082 kg
<b>Device presentation</b>	Complete product

## Environment

<b>Dielectric strength</b>	2000 V AC between poles with basic 4000 V AC between coil and contact with reinforced 1500 V AC between contacts with micro disconnection
<b>Standards</b>	UL 508 EN/IEC 61810-1 CSA C22.2 No 14
<b>Product certifications</b>	CSA GOST UL CE
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...55 °C
<b>Vibration resistance</b>	10 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles in operation conforming to EN/IEC 60068-2-27 3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)5 cycles not operating conforming to EN/IEC 60068-2-27
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Shock resistance</b>	10 gn for in operation conforming to EN/IEC 60068-2-27 10 gn for not operating conforming to EN/IEC 60068-2-27
<b>Pollution degree</b>	3

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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

**Eu Rohs Directive** Pro-active compliance (Product out of EU RoHS legal scope)  
[EU RoHS Declaration](#)

**China Rohs Regulation** [China RoHS declaration](#)

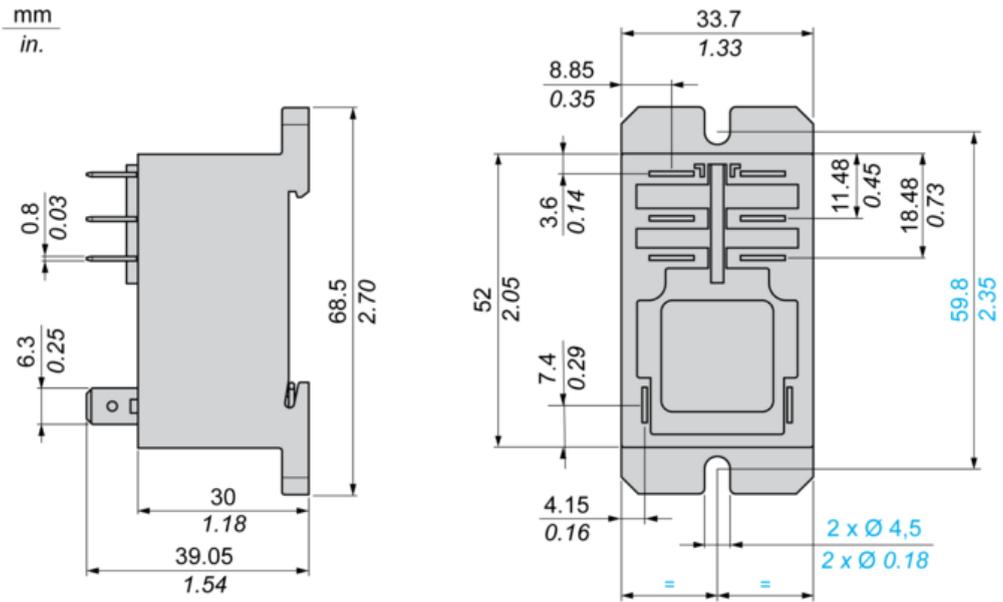
**Environmental Disclosure** [Product Environmental Profile](#)

**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

Dimensions Drawings

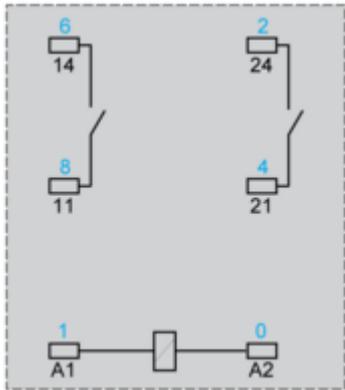
Dimensions



## Connections and Schema

### Wiring Diagram

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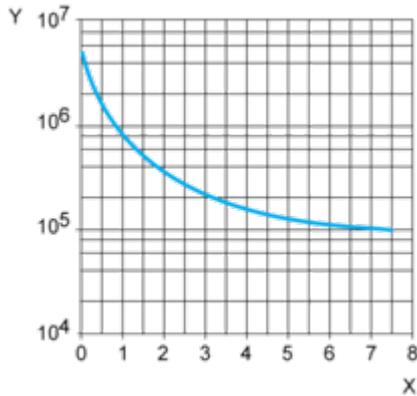


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

AC Resistive load

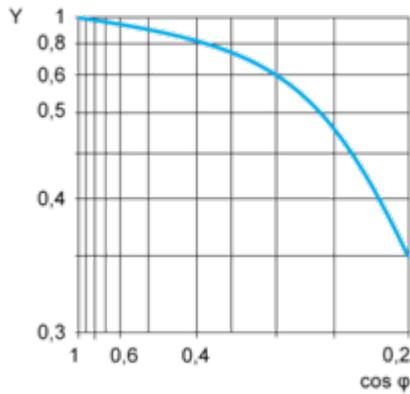


X Switching capacity (kVA)

Y Durability (number of operating cycles)

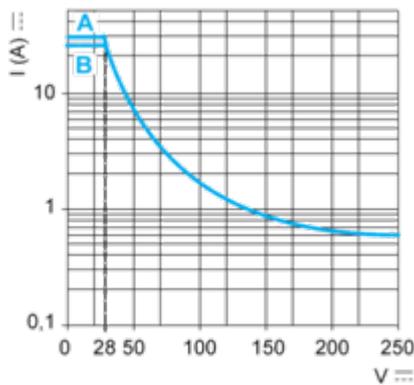
AC Reduction coefficient for inductive load (depending on power factor cos φ)

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

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