

Product datasheet

Specifications



power relay plug-in - Harmony RPF - 2 CO - 24 V DC - 30 A

RPF2BDBB

⚠ Discontinued on: 12 Jun 2024

⚠ 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	24 V DC
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

[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	1.7 W
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	$\geq 0.1 U_c$
minimum switching current	500 mA
Maximum switching capacity	7500 VA/700 W
Average resistance	350 Ohm at 20 °C +/- 10 %
Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Safety reliability data	B10d = 100000

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 during 1.2/50 µs
Protection category	RT II
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	0.082 kg

Environment

Ambient air temperature for operation	-40...55 °C
IP degree of protection	IP40 conforming to EN/IEC 60529
Standards	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
Product certifications	CE CSA UL 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



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 >](#)

Use Longer

Lifetime extension	
Repair	No