Specifications



Power relay, Harmony, DIN rail or panel mount relay, 30A, 2CO, 12V DC

RPF2BJD

Main

wall	
Range of product	Harmony Electromechanical Relays
Series name	Power
Product or component type	DIN rail/panel mount relay
Device short name	RPF
Contacts type and composition	2 C/O
[Uc] control circuit voltage	12 V DC
Control type	Without lockable test button
Shape of pin	Flat
Contacts material	Silver tin oxide
[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
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	9.613.2 V
[le] 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 3 A at 28 V (DC) NC conforming to IEC
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to UL
[Uimp] rated impulse withstand voltage	4 kV during 1.2/50 μs
Maximum switching voltage	250 V conforming to IEC
Maximum switching capacity	7500 VA/700 W
Minimum recommended switching capacity	6000 mW 500 mA / 12 V for NO 170 mW 10 mA / 6 V for NC
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 Uc
Operate time	25 ms
Release time	25 ms
Average resistance	86 Ohm at 20 °C +/- 10 %
Safety reliability data	B10d = 100000
Protection category	RT II
Test levels	Level A group mounting
Operating position	Any position
CAD overall width	33.7 mm
CAD overall height	68.5 mm
CAD overall depth	39.2 mm
Net weight	0.082 kg
Device presentation	Complete product
Environment	
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
Standards	UL 508 CSA C22.2 No 14 EN/IEC 61810-1
Product certifications	CE CSA GOST UL
Ambient air temperature for storage	-4085 °C
Ambient air temperature for operation	-4055 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles in operation 10 gn, amplitude = +/- 1 mm (f = 10150 Hz)5 cycles not operating
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn for in operation 30 gn for not operating
Pollution degree	3
Packing Units	
Unit Type of Package 1	Db
Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	
	3.5 cm
Package 1 Length	3.5 cm 6.9 cm

Package 2 Height

Unit Type of Package 2

Number of Units in Package 2

Gyári csomagolás

10

15 cm

Package 2 Width	5 cm
Package 2 Length	20 cm
Package 2 Weight	907 g
Unit Type of Package 3	S02
Number of Units in Package 3	60
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	5.925 kg

Offer Sustainability

Sustainable offer status REACh Regulation REACh free of SVHC EU RoHS Directive Toxic heavy metal free Mercury free China RoHS Regulation RoHS exemption information Environmental Disclosure WEEE	Green Premium product REACh Declaration Yes Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Yes Yes Yes
REACh free of SVHC EU RoHS Directive Toxic heavy metal free Mercury free China RoHS Regulation RoHS exemption information Environmental Disclosure	Yes Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Yes
EU RoHS Directive Toxic heavy metal free Mercury free China RoHS Regulation RoHS exemption information Environmental Disclosure	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Yes
Toxic heavy metal free Mercury free China RoHS Regulation RoHS exemption information Environmental Disclosure	EU RoHS Declaration Yes
Mercury free China RoHS Regulation RoHS exemption information Environmental Disclosure	
China RoHS Regulation RoHS exemption information Environmental Disclosure	Yes
RoHS exemption information Environmental Disclosure	
Environmental Disclosure	China RoHS declaration
	Yes
WEEE	Product Environmental Profile
	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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

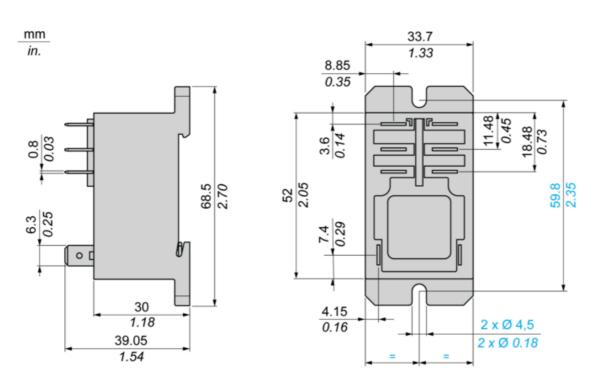
Contractual warranty

Warranty

18 months

Dimensions Drawings

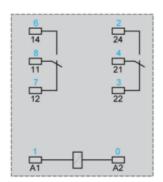
Dimensions



RPF2BJD

Connections and Schema

Wiring Diagram

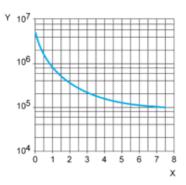


Symbols shown in blue correspond to Nema marking.

Performance Curves

Electrical Durability of Contacts

AC Resistive load

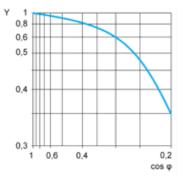


X Switching capacity (kVA)

Y Durability (number of operating cycles)

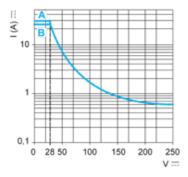
AC Reduction coefficient for inductive load (depending on power factor cos $\varphi)$

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



Y reduction coefficient

Maximum switching capacity on DC resistive load



A 30 A



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

Recommended replacement(s)