Product data sheet
Characteristics

RPF2BBD
power relay, Harmony Electromechanical Relays, DIN rail or panel mount relay, 30A, 2CO, without LED, without lockable test button, 24V DC



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	24 V DC
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	19.2...26.4 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	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	>= 0.1 Uc
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
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	CSA C22.2 No 14 UL 508 IEC 61810-1
Product certifications	UL[RETURN]GOST[RETURN]CSA[RETURN]CE
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	7.000 Cm
Package 1 Width	3.000 Cm
Package 1 Length	3.500 Cm
Package 1 Weight	90.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	4.500 Cm
Package 2 Width	19.500 Cm
Package 2 Length	14.500 Cm
Package 2 Weight	955.000 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	6.245 Kg

Offer Sustainability

Recyclability potential, in %	1
Total lifecycle Carbon footprint	28 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7305307328286599
Carbon footprint of the manufacturing phase [A1 to A3]	0.7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.10358205305809072
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00028447941030842837

Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	26.551167340930224
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	27 kg CO2 eq.
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.19508840696194643
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	28
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Free of Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is k
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised