Product data sheet
Characteristics

RPM42BD
power plug in relay, Harmony Electromechanical Relays, 15A, 4CO, with LED, with lockable test button, 24V DC



Main

Range of product	Harmony Electromechanical Relays
Series name	RPM series
Product or component type	Plug-in relay
Contacts type and composition	4 C/O
Relay type	Power relay
Status LED	With
[Uc] control circuit voltage	24 V DC
Minimum switching capacity	170 mW at 10 mA, 17 V
Reset time	20 Ms at nominal voltage
Ambient air temperature for operation	-40…55 °C
[Ithe] conventional enclosed thermal current	15 A at -40…55 °C

Complementary

Control type	Lockable test button
[Ie] rated operational current	15 A at 277 V (AC) conforming to UL 15 A at 28 V (DC) conforming to UL 15 A at 250 V (AC) NO conforming to IEC 15 A at 28 V (DC) NO conforming to IEC 7.5 A at 250 V (AC) NC conforming to IEC 7.5 A at 28 V (DC) NC conforming to IEC
IP degree of protection	IP40 conforming to IEC 60529
Rated operational voltage limits	19.2...26.4 V DC
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
Maximum switching voltage	250 V conforming to IEC
Drop-out voltage threshold	>= 0.1 Uc DC
Average coil consumption	1.6 W
Average resistance	303 Ohm at 20 °C +/- 10 %
Maximum switching capacity	3750 VA 420 W
Load current	15 A at 250 V AC 15 A at 28 V DC
Operating time	20 ms at nominal voltage
Mechanical durability	10000000 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	20 %
Dielectric strength	1500 V AC between contacts with micro disconnection 2000 V AC between coil and contact with reinforced 2000 V AC between poles with basic
[Uimp] rated impulse withstand voltage	4 KV during 1.2/50 µs
Protection category	RT I
Mounting support	Plug-in
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	AgNi
Shape of pin	Flat (faston type)
Net weight	0.071 Kg

Environment

Pollution degree	3
Standards	IEC 61810-1 CSA C22.2 No 14 UL 508
Product certifications	EAC[RETURN]CSA[RETURN]UL
Ambient air temperature for storage	-40…85 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10…150 Hz)5 cycles in operation 5 gn, amplitude = +/- 1 mm (f = 10…150 Hz)5 cycles not operating
Shock resistance	15 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	4.700 Cm
Package 1 Width	4.000 Cm
Package 1 Length	2.800 Cm
Package 1 Weight	72.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.000 Cm
Package 2 Width	10.500 Cm
Package 2 Length	22.500 Cm
Package 2 Weight	769.000 G
Unit Type of Package 3	S02
Number of Units in Package 3	120
Package 3 Height	15.000 Cm
Package 3 Width	30.000 Cm
Package 3 Length	40.000 Cm
Package 3 Weight	9.671 Kg

Offer Sustainability

Recyclability potential, in %	67
Total lifecycle Carbon footprint	26 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7708014046727648
Carbon footprint of the manufacturing phase [A1 to A3]	0.8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.040106268715611425
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00017537448677886803
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	25.24343279810491
REACh free of SVHC	Yes

Carbon footprint of the use phase [B2, B3, B4, B6]	25 kg CO2 eq.
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.12900050089224432
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	26
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