Product data sheet
Characteristics

RPM12BD
power plug in relay, Harmony Electromechanical Relays, 15A, 1CO, 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	1 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	1.1 W
Average resistance	450 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
[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	0.026 Kg

Environment

Pollution degree	3
Standards	IEC 61810-1 UL 508 CSA C22.2 No 14
Product certifications	CSA[RETURN]EAC[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	1.400 Cm
Package 1 Width	2.600 Cm
Package 1 Length	3.900 Cm
Package 1 Weight	24.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	3.300 Cm
Package 2 Width	8.300 Cm
Package 2 Length	11.000 Cm
Package 2 Weight	274.000 G
Unit Type of Package 3	S02
Number of Units in Package 3	360
Package 3 Height	15 Cm
Package 3 Width	30 Cm
Package 3 Length	40 Cm
Package 3 Weight	10.382 Kg

Offer Sustainability

Recyclability potential, in %	67
Total lifecycle Carbon footprint	14 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.2616638793770973
Carbon footprint of the manufacturing phase [A1 to A3]	0.3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.01361487121825169
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00005953436031140578
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	14.119611160081014
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	14 kg CO2 eq.

Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.04379178774250361
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	14
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