Product data sheet
Characteristics

RPM31BD
plug-in relay, Harmony electromechanical relays, 15A, 3CO, lockable test button, 24V DC



Commercial status
End of Commercialisation : JUL 28, 2023

⚠ End of Commercialisation

Main

Range of product	Harmony Electromechanical Relays
Series name	Power
Product or component type	Plug-in relay
Device short name	RPM
Contacts type and composition	3 C/O
Status LED	Without
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

[Uc] control circuit voltage	24 V DC
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	1.5 W
Average resistance	320 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
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	AgNi
Shape of pin	Flat
Net weight	0.054 Kg

Environment

Pollution degree	3
Standards	CSA C22.2 No 14 IEC 61810-1 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	4.7 Cm
Package 1 Width	3.1 Cm
Package 1 Length	2.8 Cm
Package 1 Weight	58 G
Unit Type of Package 2	CAR
Number of Units in Package 2	10
Package 2 Height	3 Cm
Package 2 Width	10.5 Cm
Package 2 Length	17.7 Cm
Package 2 Weight	564 G
Unit Type of Package 3	S01
Number of Units in Package 3	80
Package 3 Height	15 Cm
Package 3 Width	15 Cm
Package 3 Length	40 Cm
Package 3 Weight	4.737 Kg

Offer Sustainability

REACh free of SVHC	Yes
Sustainable packaging	Yes
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is know
End of life manual availability	No need of specific recycling operations

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation

RPM31BD may be replaced by any of the following products:



RPM32BD

power plug in relay, Harmony Electromechanical Relays, 15A, 3CO, with LED, with lockable test button, 24V DC

Qty 1

Substitution date: |