

Product data sheet

Specifications



universal plug-in relay - Harmony RUM - 3 C/O - 24 V DC - 10 A

RUMC3AB1BD

! Discontinued on: 31 October 2014

! End-of-service on: 31 December 2014

! Discontinued

Main

Range of product	Harmony Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
Contacts type and composition	3 C/O
[Uc] control circuit voltage	24 V DC
[Ithe] conventional enclosed thermal current	10 A at -40...55 °C
Status LED	Without
Control type	Lockable test button
Utilisation coefficient	20 %

Complementary

Shape of pin	Cylindrical
[Ui] rated insulation voltage	250 V conforming to IEC 300 V conforming to CSA 300 V conforming to UL
[Uimp] rated impulse withstand voltage	4 kV
Contacts material	AgNi
[Ie] rated operational current	10 A AC-1/DC-1 (NO) conforming to IEC 12 A at 28 V DC-1 conforming to UL 16 A at 277 V AC-1 conforming to UL 5 A AC-1/DC-1 (NC) conforming to IEC
Minimum switching current	10 mA
Maximum switching voltage	250 V AC conforming to IEC 250 V DC conforming to IEC
Minimum switching voltage	17 V
Resistive rated load	10 A at 250 V AC 10 A at 28 V DC
Maximum switching capacity	2500 VA AC 280 W DC
Minimum switching capacity	170 mW
Operating rate	<= 18000 cycles/hour no-load

<= 1200 cycles/hour under load

Mechanical durability	5000000 cycles
Electrical durability	100000 cycles for resistive load
Average coil consumption in W	1.4 W
Drop-out voltage threshold	>= 0.1 U _c DC
Operate time	20 ms
Average coil resistance	470 Ohm at 20 °C +/- 10 %
Rated operational voltage limits	19.2...26.4 V DC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Net weight	0.088 kg

Environment

Dielectric strength	1500 V AC between contacts 1550 V AC between coil and contact 1550 V AC between poles
Product certifications	CSA UL GOST
Standards	UL 508 CSA C22.2 No 14 EN/IEC 61810-1
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	-40...55 °C
Vibration resistance	3 gn, amplitude = +/- 1 mm (f = 10...150 Hz)10 cycles in operation conforming to EN/IEC 60068-2-27 4 gn, amplitude = +/- 1 mm (f = 10...150 Hz)10 cycles not operating conforming to EN/IEC 60068-2-27
IP degree of protection	IP40 conforming to EN/IEC 60529
Shock resistance	10 gn for in operation 10 gn for not operating
Pollution degree	3

Packing Units

Package 1 Weight	0.084 kg
Package 1 Height	0.630 dm
Package 1 width	0.350 dm
Package 1 Length	0.355 dm

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

RUMC3AB1BD is replaced by the following product range:



Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays (formerly known as Zelio Electromechanical Relays)

Products: 536