

# Product datasheet

Specifications



## universal plug-in relay - Harmony RUM - 3 C/O - 48 V DC - 10 A

RUMF3AB1ED

⚠ Discontinued on: 2 Apr 2021

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### 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	48 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	Flat
[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

<b>Electrical durability</b>	100000 cycles for resistive load
<b>Average coil consumption in W</b>	1.4 W
<b>Drop-out voltage threshold</b>	>= 0.1 U <sub>c</sub> DC
<b>Operate time</b>	20 ms
<b>Average coil resistance</b>	1800 Ohm at 20 °C +/- 10 %
<b>Rated operational voltage limits</b>	38.4...52.8 V DC
<b>Protection category</b>	RT I
<b>Safety reliability data</b>	B10d = 100000
<b>Operating position</b>	Any position
<b>Net weight</b>	0.082 kg

## Environment

<b>Dielectric strength</b>	1500 V AC between contacts 1550 V AC between coil and contact 1550 V AC between poles
<b>Product certifications</b>	UL CSA GOST
<b>Standards</b>	UL 508 EN/IEC 61810-1 CSA C22.2 No 14
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Ambient air temperature for operation</b>	-40...55 °C
<b>Vibration resistance</b>	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
<b>IP degree of protection</b>	IP40 conforming to EN/IEC 60529
<b>Shock resistance</b>	10 gn for in operation 10 gn for not operating
<b>Pollution degree</b>	3

## Contractual warranty

<b>Warranty</b>	18 months
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