



ⓘ Discontinued

Commercial status

Discontinued on: 27 August 2020

End-of-service on: 31 December 2014

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
Contact operation	Low level
[Uc] control circuit voltage	24 V AC
[Ithe] conventional enclosed thermal current	3 A at -40...55 °C
Status LED	With
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	Gold plated bifurcated silver
[Ie] rated operational current	2 A AC-1/DC-1 (NO) conforming to IEC 3 A AC-1/DC-1 conforming to UL 1 A AC-1/DC-1 (NC) conforming to IEC
Minimum switching current	3 mA
Maximum switching voltage	250 V AC conforming to IEC 250 V DC conforming to IEC
Minimum switching voltage	5 V
Resistive rated load	10 A at 28 V DC 3 A at 250 V AC
Maximum switching capacity	750 VA AC 84 W DC
Minimum switching capacity	15 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 VA	2...3 at 60 Hz
Drop-out voltage threshold	>= 0.15 Uc AC
Operate time	20 ms
Average coil resistance	72 Ohm at 20 °C +/- 15 %
Rated operational voltage limits	19.2...26.4 V AC
Protection category	RT I
Safety reliability data	B10d = 100000
Operating position	Any position
Net weight	0.086 kg

Environment

Dielectric strength	1500 V AC between contacts 1550 V AC between coil and contact 1550 V AC between poles
Product certifications	UL GOST CSA
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

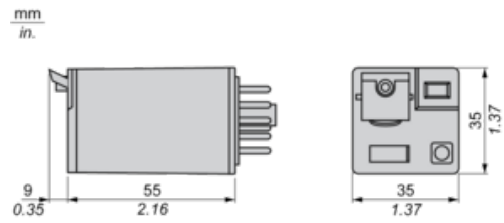
Packing Units

Package 1 Weight	0.097 kg
Package 1 Height	0.700 dm
Package 1 width	0.350 dm
Package 1 Length	0.355 dm

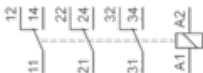
Contractual warranty

Warranty	12 months
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Dimensions



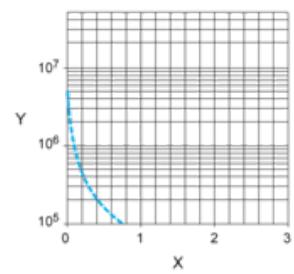
Wiring Diagram



Electrical Durability of Contacts

Durability (inductive load) = durability (resistive load) x reduction coefficient.

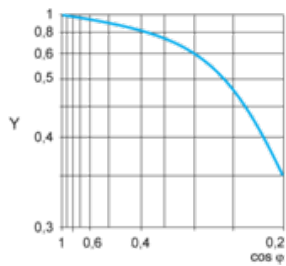
Resistive AC load



X Switching capacity (kVA)

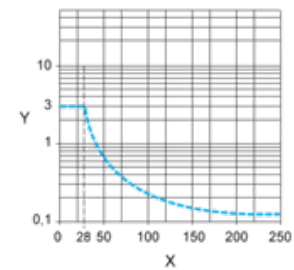
Y Durability (Number of operating cycles)

Reduction coefficient for inductive AC load (depending on power factor $\cos \phi$)



Y Reduction coefficient (A)

Maximum switching capacity on resistive DC load



X Voltage DC

Y Current DC

Note : These are typical curves, actual durability depends on load, environment, duty cycle, etc.

RUMC3GB2B7 is replaced by the following product range:



Harmony Electromechanical Relays

Interface, miniature, and power electromechanical relays

A complete range of electromechanical relays including interface, miniature, and power relays from 1 CO to 4 CO contacts, up to 30 A.