

Product data sheet

Specifications



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

RUMC33ED

⚠ Discontinued on: Jan 18, 2021

⚠ Discontinued

Main

Range of product	Harmony Relay
Series name	Universal
Product or component type	Plug-in relay
Device short name	RUM
[Uc] control circuit voltage	48 V DC
Contacts type and composition	3 C/O
status LED	With
Control type	Without lockable test button
[Ithe] conventional enclosed thermal current	10 A -40...131 °F (-40...55 °C)

Complementary

[Uimp] rated impulse withstand voltage	4 kV 1.2/50 µs)
Minimum switching capacity	170 mW 10 mA, 17 V
Electrical durability	100000 cycles resistive
Operating time	20 ms at nominal voltage
Rated operational voltage limits	38.4...52.8 V DC
[Ui] rated insulation voltage	250 V IEC 300 V CSA 300 V UL
Reset time	20 ms at nominal voltage
Maximum switching voltage	250 V IEC
Drop-out voltage threshold	>= 0.1 Uc DC
[Ie] rated operational current	10 A 277 V AC UL 10 A 30 V DC UL 10 A 277 V AC same polarity)CSA 10 A 30 V DC CSA 5 A 250 V AC NC)IEC 5 A 28 V DC NC)IEC 10 A 250 V AC NO)IEC 10 A 28 V DC NO)IEC
Average resistance	1800 Ohm 20 °C +/- 15 %
Maximum switching capacity	2500 VA/280 W
Mechanical durability	5000000 cycles
Safety reliability data	B10d = 100000

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Operating rate	<= 18000 cycles/hour no-load <= 1200 cycles/hour under load
Utilisation coefficient	20 %
Compatibility code	RUM
Dielectric strength	1500 V AC between contacts micro disconnection 2500 V AC between coil and contact reinforced 2000 V AC between poles basic
Protection category	RT I
Pollution degree	2
Operating position	Any position
Test levels	Level A group mounting
Device presentation	Complete product
Contacts material	AgNi
Shape of pin	Cylindrical
Net weight	0.190 lb(US) (0.086 kg)

Environment

Ambient air temperature for operation	-40...131 °F (-40...55 °C)
IP degree of protection	IP40
Standards	CSA C22.2 No 14 EN/IEC 61810-1 UL 508
Product certifications	UL EAC CSA
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Vibration resistance	3 gn +/- 1 mm 10...150 Hz)5 cycles in operation 4 gn +/- 1 mm 10...150 Hz)5 cycles not operating
Shock resistance	10 gn 11 ms) in operation EN/IEC 60068-2-27 10 gn 11 ms) not operating EN/IEC 60068-2-27

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.7 in (6.9 cm)
Package 1 Width	1.40 in (3.55 cm)
Package 1 Length	1.4 in (3.5 cm)
Package 1 Weight	3.2 oz (91 g)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

Use Longer



Lifetime extension

Repair

No

Use Again



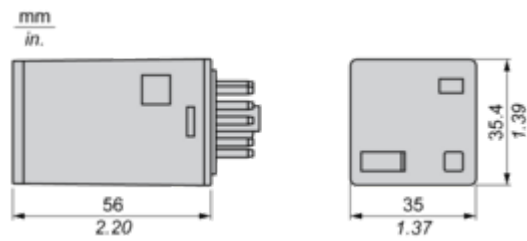
Repack and remanufacture

Circularity Profile

No need of specific recycling operations

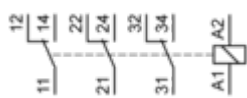
Dimensions Drawings

Dimensions



Connections and Schema

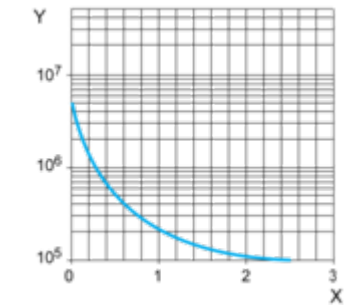
Wiring Diagram



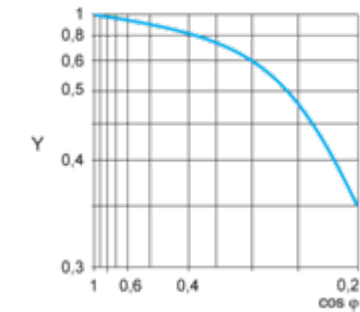
Performance Curves

Electrical Durability of Contacts

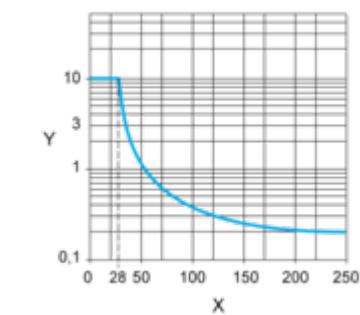
Durability (inductive load) = durability (resistive load) x reduction coefficient.
Resistive AC load



X Switching capacity (kVA)
Y Durability (Number of operating cycles)
Reduction coefficient for inductive AC load (depending on power factor cos φ)



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.

Technical Illustration

Dimensions

mm
in.

