

# Product data sheet

Specifications



## universal plug-in relay - Harmony RUM - 2 C/O - 48 V AC - 10 A

RUMC21E7

⚠ Discontinued on: Nov 1, 2020

⚠ End-of-service on: Jun 26, 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 AC 50/60 Hz     |
| Contacts type and composition                | 2 C/O                |
| status LED                                   | Without              |
| Control type                                 | Lockable test button |
| [Ithe] conventional enclosed thermal current | 10 A at -40...55 °C  |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage | 4 kV (1.2/50 µs)                                                                                                                                                                                                                                                                                                         |
| Minimum switching capacity             | 170 mW at 10 mA, 17 V                                                                                                                                                                                                                                                                                                    |
| Electrical durability                  | 100000 cycles for resistive load                                                                                                                                                                                                                                                                                         |
| Average coil consumption in VA         | 3 at 60 Hz                                                                                                                                                                                                                                                                                                               |
| Operating time                         | 20 ms at nominal voltage                                                                                                                                                                                                                                                                                                 |
| Rated operational voltage limits       | 38.4...52.8 V AC                                                                                                                                                                                                                                                                                                         |
| [Ui] rated insulation voltage          | 250 V conforming to IEC<br>300 V conforming to CSA<br>300 V conforming to UL                                                                                                                                                                                                                                             |
| Reset time                             | 20 ms at nominal voltage                                                                                                                                                                                                                                                                                                 |
| Maximum switching voltage              | 250 V conforming to IEC                                                                                                                                                                                                                                                                                                  |
| Drop-out voltage threshold             | >= 0.15 Uc AC                                                                                                                                                                                                                                                                                                            |
| [Ie] rated operational current         | 10 A at 277 V AC conforming to UL<br>10 A at 30 V DC conforming to UL<br>10 A at 30 V DC conforming to CSA<br>5 A at 250 V AC (NC) conforming to IEC<br>5 A at 28 V DC (NC) conforming to IEC<br>10 A at 250 V AC (NO) conforming to IEC<br>10 A at 28 V DC (NO) conforming to IEC<br>10 A at 277 V AC conforming to CSA |
| Average resistance                     | 290 Ohm at 20 °C +/- 15 %                                                                                                                                                                                                                                                                                                |
| Maximum switching capacity             | 2500 VA/280 W                                                                                                                                                                                                                                                                                                            |
| Mechanical durability                  | 5000000 cycles                                                                                                                                                                                                                                                                                                           |
| Safety reliability data                | B10d = 100000                                                                                                                                                                                                                                                                                                            |

List Price displayed is VAT EXCLUSIVE.

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<br><= 1200 cycles/hour under load                                                                                  |
| Utilisation coefficient | 20 %                                                                                                                                            |
| Compatibility code      | RUM                                                                                                                                             |
| Dielectric strength     | 1500 V AC between contacts with micro disconnection<br>2500 V AC between coil and contact with reinforced<br>2000 V AC between poles with basic |
| Protection category     | RT I                                                                                                                                            |
| Pollution degree        | 3                                                                                                                                               |
| Operating position      | Any position                                                                                                                                    |
| Test levels             | Level A group mounting                                                                                                                          |
| Device presentation     | Complete product                                                                                                                                |
| Contacts material       | AgNi                                                                                                                                            |
| Shape of pin            | Cylindrical                                                                                                                                     |
| Net weight              | 0.086 kg                                                                                                                                        |

## Environment

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

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 6.9 cm  |
| Package 1 Width              | 3.55 cm |
| Package 1 Length             | 3.5 cm  |
| Package 1 Weight             | 83 g    |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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        | <a href="#">Compliant</a> |

### Use Longer

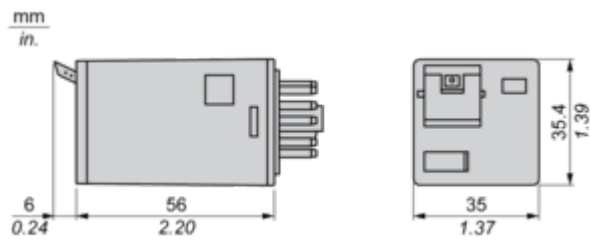
| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture        |                                          |
|---------------------------------|------------------------------------------|
| End of life manual availability | No need of specific recycling operations |

Dimensions Drawings

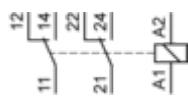
Dimensions



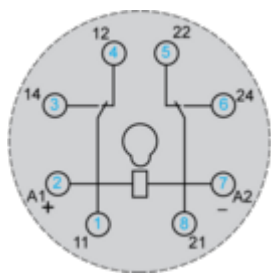
Connections and Schema

Wiring Diagram

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Wiring Diagram

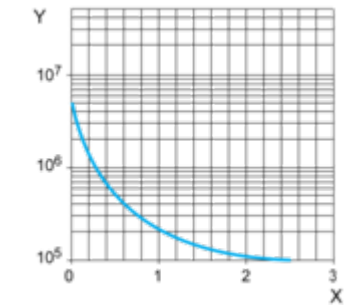


Symbols shown in blue correspond to Nema marking.

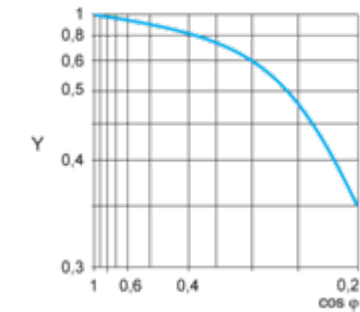
Performance Curves

Electrical Durability of Contacts

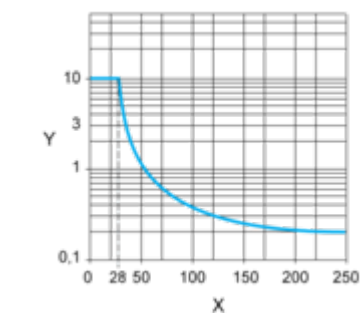
Durability (inductive load) = durability (resistive load) x reduction coefficient.  
Resistive AC load



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

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