

# Product data sheet

Specifications



## power plug-in relay - Harmony RPM - 2 C/O - 12 V DC - 15 A - with LED

RPM23JD

⚠ Discontinued on: Dec 2, 2020

⚠ End-of-service on: Dec 31, 2020

⚠ Discontinued

### Main

|                                              |                                 |
|----------------------------------------------|---------------------------------|
| Range of Product                             | Harmony Relay                   |
| Series name                                  | Power                           |
| Product or Component Type                    | Plug-in relay                   |
| Device short name                            | RPM                             |
| Contacts type and composition                | 2 C/O                           |
| Status LED                                   | With                            |
| Minimum switching capacity                   | 170 mW 10 mA, 17 V              |
| Release time                                 | 20 ms at nominal voltage        |
| Ambient air temperature for operation        | -40...131 °F (-40...55 °C)      |
| [Ithe] conventional enclosed thermal current | 15 A -40...131 °F (-40...55 °C) |

### Complementary

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| [Uc] control circuit voltage        | 12 V DC                                                                                                                                   |
| Control Type                        | Without lockable test button                                                                                                              |
| [Ie] rated operational current      | 15 A 277 V AC) UL<br>15 A 28 V DC) UL<br>15 A 250 V AC) NO IEC<br>15 A 28 V DC) NO IEC<br>7.5 A 250 V AC) NC IEC<br>7.5 A 28 V DC) NC IEC |
| Degree of protection (Housing only) | IP40 conforming to EN/IEC 60529                                                                                                           |
| Rated operational voltage limits    | 9.6...13.2 V DC                                                                                                                           |
| [Ui] rated insulation voltage       | 250 V IEC<br>300 V CSA<br>300 V UL                                                                                                        |
| Maximum switching voltage           | 250 V IEC                                                                                                                                 |
| Drop-out voltage threshold          | >= 0.1 Uc DC                                                                                                                              |
| Maximum switching capacity          | 3750 VA<br>420 W                                                                                                                          |
| Mechanical durability               | 10000000 cycles                                                                                                                           |
| Electrical durability               | 100000 cycles resistive                                                                                                                   |
| Safety reliability data             | B10d = 100000                                                                                                                             |
| Operating rate                      | <= 1200 cycles/hour under load<br><= 18000 cycles/hour no-load                                                                            |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                                        |                                                                                                                                                 |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation coefficient                | 20 %                                                                                                                                            |
| Dielectric strength                    | 1500 V AC between contacts with micro disconnection<br>2000 V AC between coil and contact with reinforced<br>2000 V AC between poles with basic |
| [Uimp] rated impulse withstand voltage | 4 kV 1.2/50 µs                                                                                                                                  |
| Protection category                    | RT I                                                                                                                                            |
| Operating position                     | Any position                                                                                                                                    |
| Test levels                            | Level A group mounting                                                                                                                          |
| Device presentation                    | Complete product                                                                                                                                |
| Contacts material                      | AgNi                                                                                                                                            |
| Shape of pin                           | Flat                                                                                                                                            |
| Net Weight                             | 0.079 lb(US) (0.036 kg)                                                                                                                         |

## Environment

|                                     |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Pollution degree                    | 3                                                                                                   |
| Standards                           | UL 508<br>CSA C22.2 No 14<br>EN/IEC 61810-1                                                         |
| Product Certifications              | EAC<br>UL<br>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<br>5 gn +/- 1 mm 10...150 Hz)5 cycles not operating |
| Shock resistance                    | 15 gnin operation<br>30 gnnot operating                                                             |

## Ordering and shipping details

|                   |                             |
|-------------------|-----------------------------|
| Category          | 21127-ZELIO ICE CUBE RELAYS |
| Discount Schedule | CP2                         |
| GTIN              | 00785901708797              |
| Returnability     | No                          |
| Country of origin | CN                          |

## 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          |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">EU RoHS Directive</a> | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                                                                                                    |
| California proposition 65         | <b>WARNING:</b> This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

### Use Longer

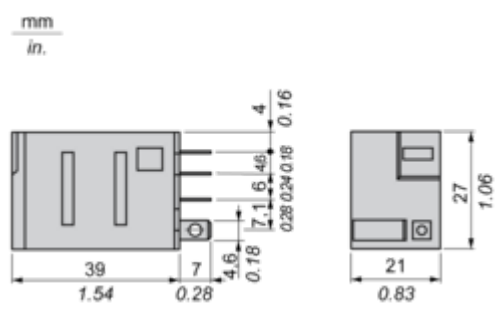
| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

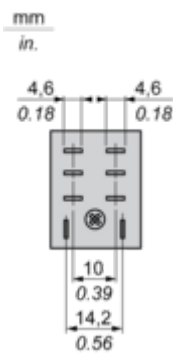
| Repack and remanufacture |                                          |
|--------------------------|------------------------------------------|
| Circularity Profile      | No need of specific recycling operations |

Dimensions Drawings

Dimensions

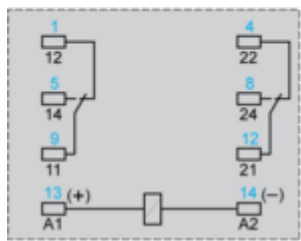
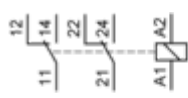


Pin Side View



Connections and Schema

Wiring Diagram

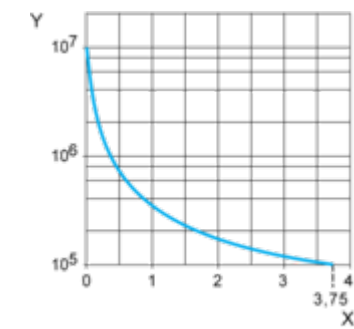


Symbols shown in blue correspond to Nema marking.

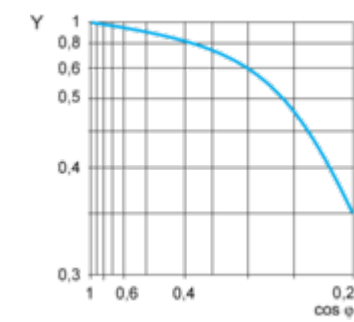
Performance Curves

Electrical Durability of Contacts

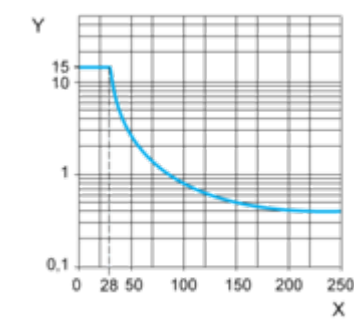
Durability (inductive load) = durability (resistive load) x reduction coefficient.  
Resistive AC load



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

