

# Product data sheet

Specifications



Power Relays, Harmony 9A, SPST-NO, 30A, flanged panel mount, sealed cover, 24V DC

9AS3D24

Product availability: Stock - Normally stocked in distribution facility

## Main

|                              |                       |
|------------------------------|-----------------------|
| Product Range                | Harmony               |
| Product Type                 | Power relay           |
| Switch Function              | SPST                  |
| Contact Composition          | NO                    |
| Contacts Material            | Silver alloy contacts |
| [Uc] Control Circuit Voltage | 24 V DC               |
| Maximum Switching Voltage    | 277 V AC<br>28 V DC   |

## Complementary

|                                 |                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Load Current                    | 30 A                                                                                                                                                                                                                                                                                   |
| Operating Position              | Any position                                                                                                                                                                                                                                                                           |
| Rated Power in VA               | 470 VA at 240 V on pilot duty                                                                                                                                                                                                                                                          |
| Network Frequency               | 50-60 Hz                                                                                                                                                                                                                                                                               |
| Rated Power in HP               | 1 hp at 125 V AC<br>2 hp at 250 V AC                                                                                                                                                                                                                                                   |
| Minimum Switching Capacity      | 5 W at 1 A, 5 V DC<br>12 VA at 1 A, 12 V AC                                                                                                                                                                                                                                            |
| Rated Operational Current       | 30 A at 240 V AC-1<br>30 A at 28 V DC (on resistive load)<br>24 A at 240 V AC (on resistive load)<br>98 A at 120 V AC-8a (locked rotor)<br>22 A at 120 V AC-8a (full load)<br>10 A at 277 V AC-5a (ballast)                                                                            |
| Control Circuit Voltage Limits  | 0.8...1.1 Uc                                                                                                                                                                                                                                                                           |
| Average Resistance              | 660 Ohm at 73 °F (23 °C) +/- 10 %                                                                                                                                                                                                                                                      |
| Connections Terminals           | Faston terminals contact terminal AWG 12...AWG 10, connection size: 6.35 x 0.8 mm<br>Faston terminals coil terminal AWG 22...AWG 14, connection size: 4.8 x 0.5 mm                                                                                                                     |
| Drop-out Voltage Threshold      | >= 0.1 Uc                                                                                                                                                                                                                                                                              |
| Average Coil Consumption        | 0.9 W                                                                                                                                                                                                                                                                                  |
| Rated Impulse Withstand Voltage | 4 kV 1.2/50 μs                                                                                                                                                                                                                                                                         |
| Electrical Durability           | 100000 cycles, 30 A at 240 V, AC-1<br>50000 cycles for resistive load, 30 A at 28 V, DC<br>100000 cycles for resistive load, 24 A at 240 V, AC<br>30000 cycles for full load, 22 A at 120 V, AC-8a<br>1000 cycles for motor load<br>6000 cycles for ballast load, 10 A at 277 V, AC-5a |
| Mechanical Durability           | 10000000 cycles                                                                                                                                                                                                                                                                        |

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

|                          |                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------|
| Operate Time             | 20 ms                                                                                  |
| Release Time             | 10 ms                                                                                  |
| Dielectric Strength      | 2500 V AC between coil and contact<br>1500 V between contacts with micro disconnection |
| Rated Insulation Voltage | 320 V                                                                                  |
| Mounting Support         | Panel flange                                                                           |
| Protection Category      | RT III                                                                                 |
| Product Weight           | 0.071 lb(US) (0.032 kg)                                                                |

## Environment

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Shock Resistance                        | 10 gn operating<br>100 gn not operating                                  |
| Pollution Degree                        | 3                                                                        |
| Vibration Resistance                    | +/- 0.75 mm 10...55 Hz operating<br>+/- 0.75 mm 10...55 Hz not operating |
| Ambient Temperature Range - Operational | -40...104 °F (-40...40 °C)                                               |
| Ambient Temperature Range - Storage     | -40...185 °F (-40...85 °C)                                               |
| Product Certifications                  | UL                                                                       |
| Height                                  | 2.0 in (50 mm)                                                           |
| Width                                   | 1.07 in (27.3 mm)                                                        |
| Depth                                   | 1.09 in (27.8 mm)                                                        |
| Standards                               | UL 60947-4-1                                                             |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10CP221127  |
| Discount Schedule | 0CP2          |
| GTIN              | 3606489915292 |
| Returnability     | Yes           |
| Country of origin | CN            |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Nbr. of units in pkg.        | 1                        |
| Package 1 Height             | 1.200 in (3.048 cm)      |
| Package 1 Width              | 1.200 in (3.048 cm)      |
| Package 1 Length             | 1.900 in (4.826 cm)      |
| Package weight(Lbs)          | 1.120 oz (31.751 g)      |
| Unit Type of Package 2       | CAR                      |
| Number of Units in Package 2 | 200                      |
| Package 2 Height             | 5.900 in (14.986 cm)     |
| Package 2 Width              | 11.600 in (29.464 cm)    |
| Package 2 Length             | 15.600 in (39.624 cm)    |
| Package 2 Weight             | 16.881 lb(US) (7.657 kg) |

# 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 >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 51 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.2 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 51 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | No                                                                                                                                                                                                                                                                                          |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                                                          |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                                                                                                                                                                                                                                   |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a>                                                                                                                                                                                                                 |
| California proposition 65              | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| PVC free                               | Yes                                                                                                                                                                                                                                                                                         |
| Silicon free                           | Yes                                                                                                                                                                                                                                                                                         |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again

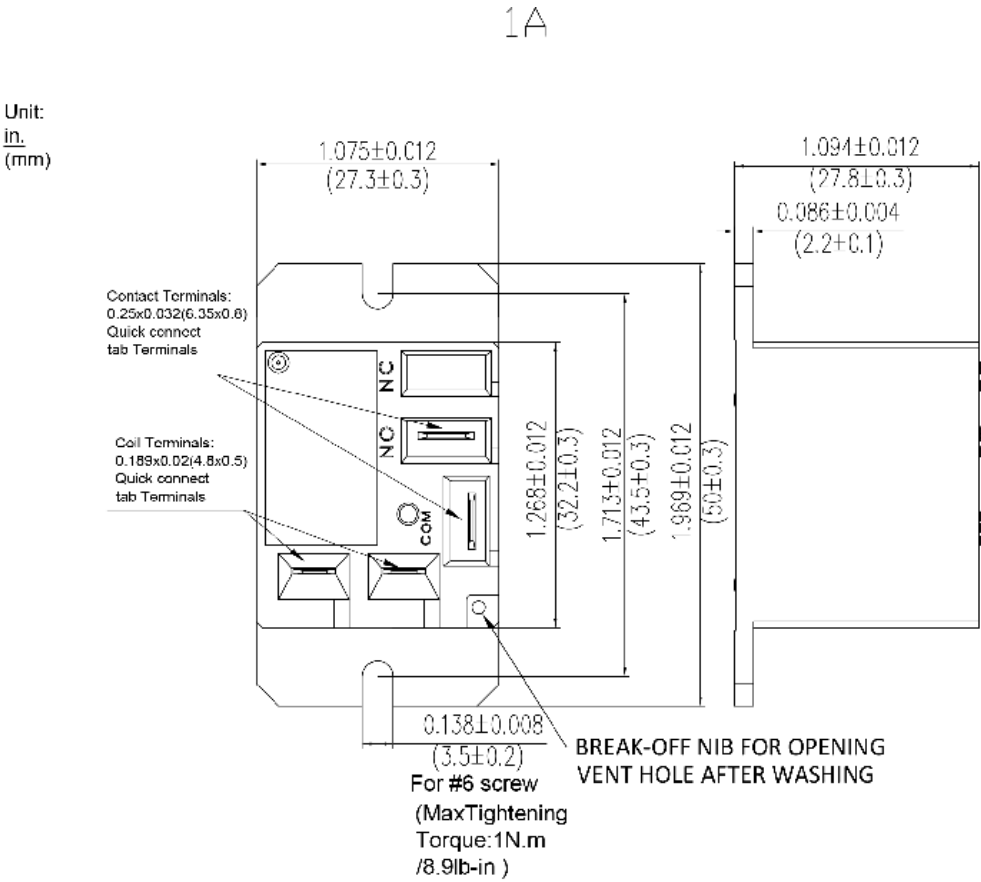


### Repack and remanufacture

|                     |                                         |
|---------------------|-----------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a> |
| Take-back           | No                                      |

Dimensions Drawings

Approximate Dimensions



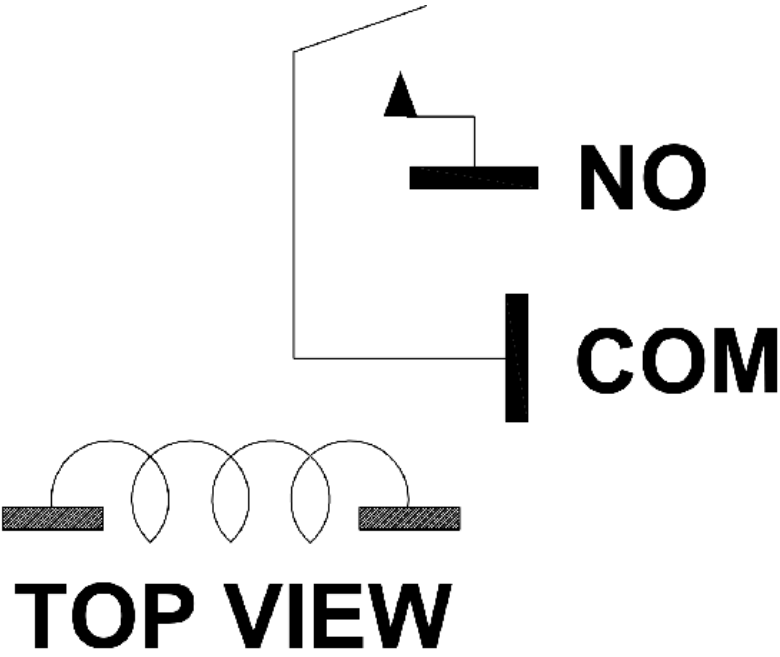


Image of product / Alternate images

Alternative

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