

Product data sheet

Specifications



Power Relays, Harmony 9A, SPDT, 30A, flanged panel mount, sealed, 120V AC

9AS7A120

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

| | |
|------------------------------|-----------------------|
| Product Range | Harmony |
| Product Type | Power relay |
| Switch Function | SPDT |
| Contacts Material | Silver alloy contacts |
| [Uc] Control Circuit Voltage | 120 V AC 50-60 Hz |
| Maximum Switching Voltage | 277 V AC 28 V DC |

Complementary

| | |
|--------------------------------|---|
| Load Current | 30 A NO 20 A NC |
| Operating Position | Any position |
| Rated Power in VA | 470 VA at 240 V, NO on pilot duty 275 VA at 240 V, NC on pilot duty |
| Network Frequency | 50-60 Hz |
| Rated Power in HP | 1 hp at 125 V AC, NO 2 hp at 250 V AC, NO 0.25 hp at 125 V AC, NC 0.5 hp at 250 V AC, NC |
| Minimum Switching Capacity | 5 W at 1 A, 5 V DC 12 VA at 1 A, 12 V AC |
| Rated Operational Current | 30 A at 240 V AC-1 (NO) 20 A at 240 V AC-1 (NC) 30 A at 28 V DC (NO) (on resistive load) 10 A at 28 V DC (NC) (on resistive load) 22 A at 120 V AC-8a (NO) (full load) 98 A at 120 V AC-8a (NO) (locked rotor) 30 A at 240 V AC-8a (NO) (full load) 80 A at 240 V AC-8a (NO) (locked rotor) 12 A at 240 V AC-8a (NC) (full load) 30 A at 240 V AC-8a (NC) (locked rotor) 10 A at 277 V AC-8a (NC) (full load) 33 A at 277 V AC-8a (NC) (locked rotor) 10 A at 277 V AC-5a (NO) (ballast) 3 A at 277 V AC-5a (NC) (ballast) |
| Control Circuit Voltage Limits | 0.85...1.1 Uc |
| Average Resistance | 2500 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 Faston terminals coil terminal AWG 22...AWG 14, connection size: 4.8 x 0.5 mm |
| Drop-out Voltage Threshold | >= 0.2 Uc |
| Average Consumption | 2.6 VA |

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

| | |
|--|--|
| Rated Impulse Withstand Voltage | 4 kV 1.2/50 μ s |
| Electrical Durability | 100000 cycles, 30 A at 240 V, AC-1 NO 50000 cycles for resistive load, 30 A at 28 V, DC NO 30000 cycles for full load, 22 A at 120 V, AC-8a NO 30000 cycles for full load, 30 A at 240 V, AC-8a NO 1000 cycles for motor load NO 6000 cycles for ballast load, 10 A at 277 V, AC-5a NO 100000 cycles, 20 A at 240 V, AC-1 NC 100000 cycles for resistive load, 10 A at 28 V, DC NC 30000 cycles for full load, 12 A at 240 V, AC-8a NC 30000 cycles for full load, 10 A at 277 V, AC-8a NC 1000 cycles for motor load NC 6000 cycles for ballast load, 3 A at 277 V, AC-5a NC |
| Mechanical Durability | 10000000 cycles |
| Operate Time | 20 ms |
| Release Time | 10 ms |
| Dielectric Strength | 2500 V AC between coil and contact 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 100 gn not operating |
| Pollution Degree | 3 |
| Vibration Resistance | +/- 0.75 mm 10...55 Hz operating +/- 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 | 3606489915322 |
| Returnability | No |
| Country of origin | CN |

Packing Units

| | |
|-------------------------------------|-------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.09 in (2.78 cm) |

Package 1 Width 1.07 in (2.72 cm)

Package 1 Length 1.97 in (5 cm)

Package 1 Weight 1.1 oz (32 g)



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 | |
|--|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 51 |
| Environmental Disclosure | Product Environmental Profile |

Use Better

| Materials and Substances | |
|--|--|
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant |
| REACH Regulation | REACH Declaration |
| 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 www.P65Warnings.ca.gov |
| PVC free | Yes |
| Silicon free | Yes |

Use Again

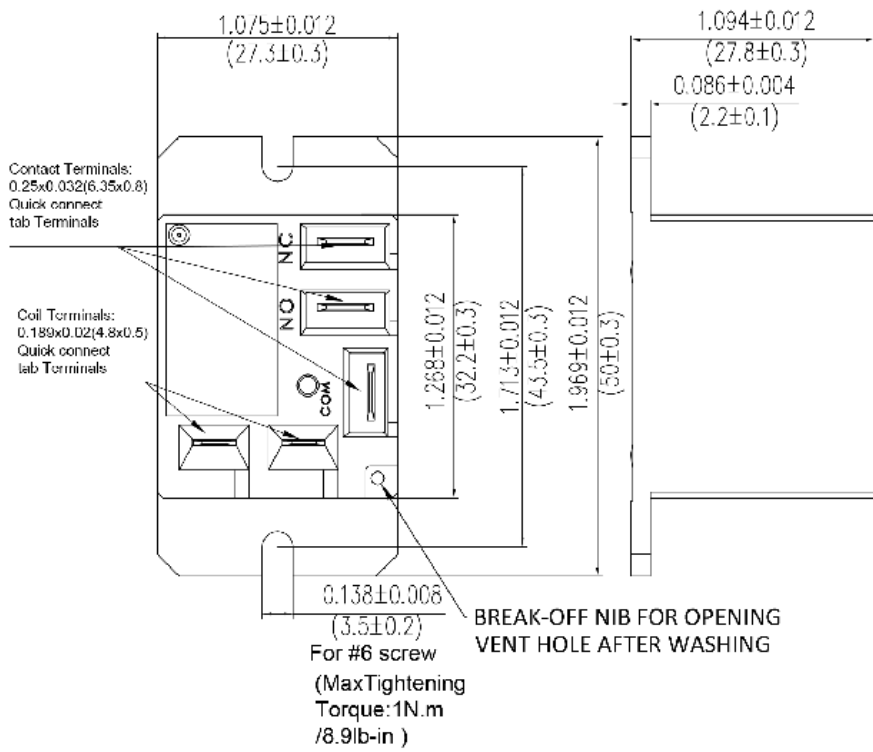
| Repack and remanufacture | |
|--------------------------|--|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions Drawings

Approximate Dimensions

1C

Unit:
in.
(mm)



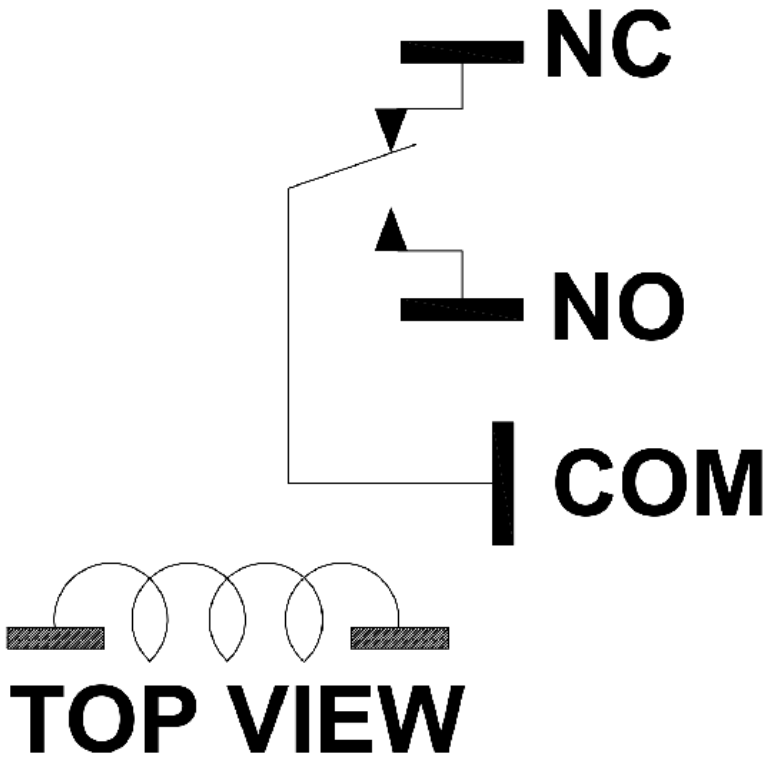


Image of product / Alternate images

Alternative



