Product data sheet

Specifications



Electromechnical Power Relays, Harmony 9A, 30A, 12 VDC SPST-NO, flanged panel mount, sealed cover

9AS3D12

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	12 V DC
Maximum Switching Voltage	277 V AC 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 2 hp at 250 V AC
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 30 A at 28 V DC (on resistive load) 24 A at 240 V AC (on resistive load) 98 A at 120 V AC-8a (locked rotor) 22 A at 120 V AC-8a (full load) 10 A at 277 V AC-5a (ballast)
Control Circuit Voltage Limits	0.8...1.1 Uc
Average Resistance	155 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	>= 0.1 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 50000 cycles for resistive load, 30 A at 28 V, DC 100000 cycles for resistive load, 24 A at 240 V, AC 30000 cycles for full load, 22 A at 120 V, AC-8a 1000 cycles for motor load 6000 cycles for ballast load, 10 A at 277 V, AC-5a

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

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	3606489915285
Returnability	Yes
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.09 in (2.78 cm)
Package 1 Width	1.07 in (2.72 cm)
Package 1 Length	2.0 in (5 cm)
Package weight(Lbs)	1.1 oz (32 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 >

Environmental footprint

Total lifecycle Carbon footprint	**31 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]	**31 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0 kg CO2 eq.**
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	**Free of Substances of Very High Concern above the threshold**
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 Longer

Lifetime extension

Repair	**No**

Use Again

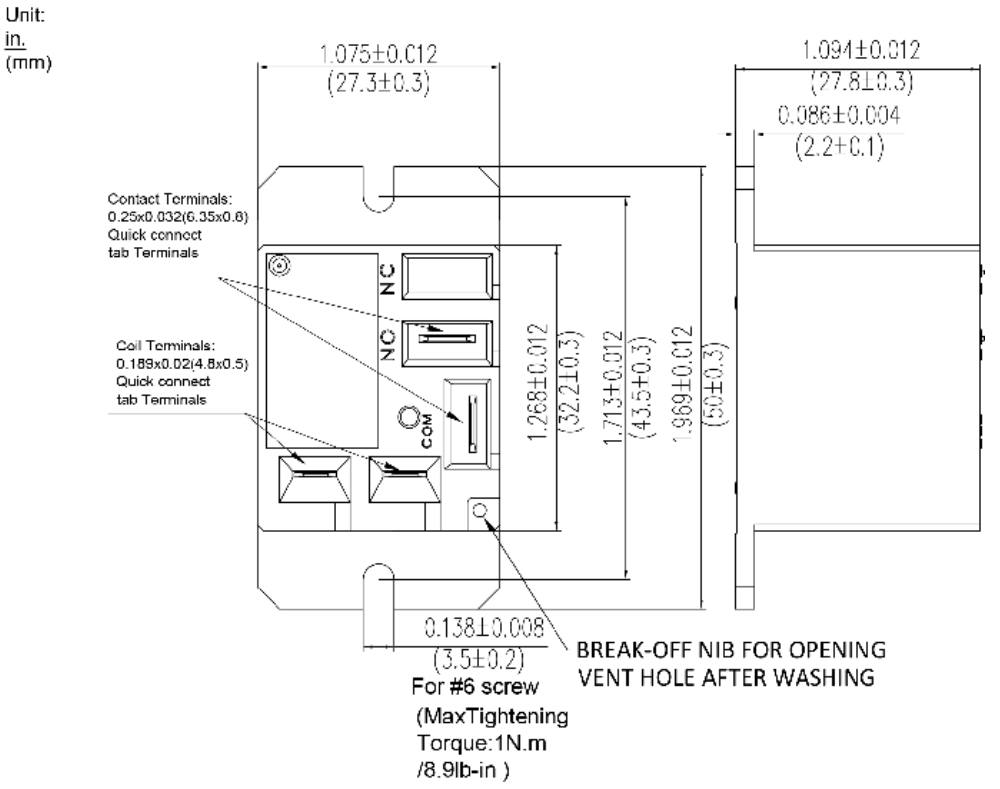
Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Approximate Dimensions

1A



Connections and Schema

Connections and Wiring Diagrams

