Product data sheet

Specifications



Electromechnical Power Relays, Harmony 9A, 30A, 12 VDC SPDT, flanged panel mount, sealed cover

9AS7D12

Product availability: Stock - 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	12 V DC
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	0.8...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

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

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	3606489915360
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	1.08 in (2.75 cm)

Package 1 Length	1.98 in (5.02 cm)
Package weight(Lbs)	1.1 oz (32 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	10
Package 2 Height	6.1 in (15.5 cm)
Package 2 Width	4.1 in (10.5 cm)
Package 2 Length	1.1 in (2.8 cm)
Package 2 Weight	11.8 oz (335 g)
Unit Type of Package 3	S02
Number of Units in Package 3	200
Package 3 Height	5.9 in (15 cm)
Package 3 Width	11.8 in (30 cm)
Package 3 Length	15.7 in (40 cm)
Package 3 Weight	15.906 lb(US) (7.215 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

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

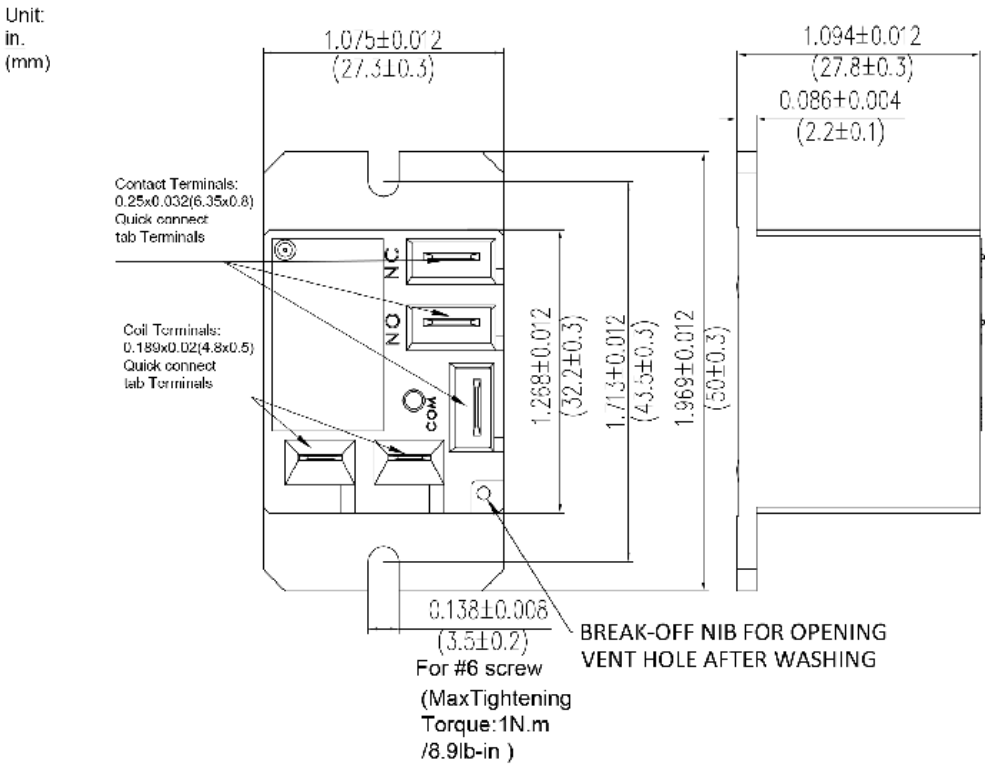
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No

Dimensions Drawings

Approximate Dimensions

1C



Connections and Schema

Connections and Wiring Diagrams

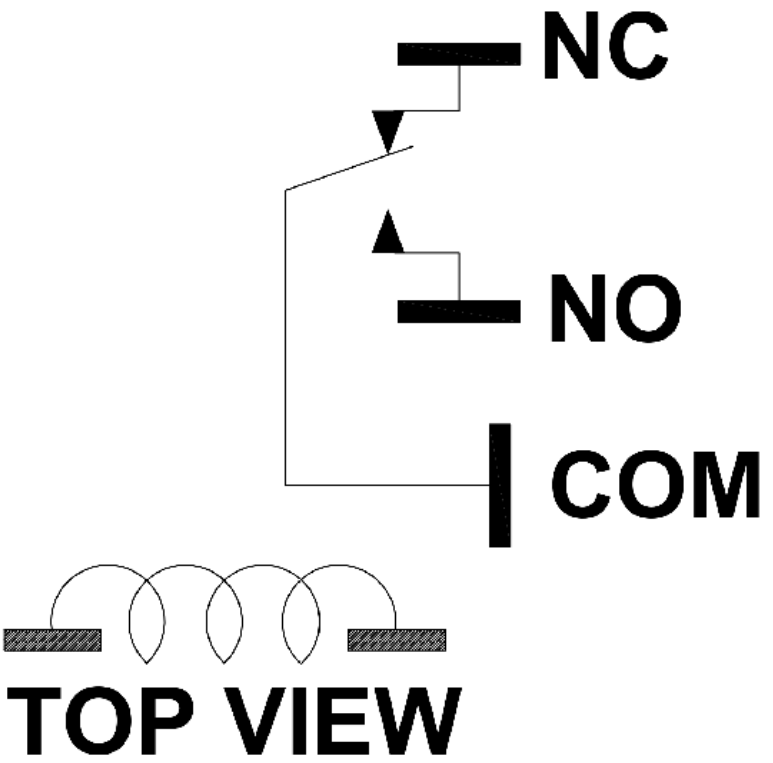


Image of product / Alternate images

Alternative

