

Datasheet

SPST-NO PCB Mount Non-Latching Relay, 6V dc

RS Stock 476-747



Features

- Ambient temperature up to 125 °C
- 5kV dielectric strength (between coil and contacts)
- Low height: 15.7mm
- Meet VDE0435/ 0110/ 0631/ 0700
- Creepage distance >8mm
- UL94, V-0 flammability class
- Product in accordance to IEC 60335-1 available
- Class F insulation
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (41.4 x 12.7 x 15.7) mm

CONTACT DATA

Contact arrangement	1A, 1B
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	AgSnO ₂ , AgNi
Contact rating	20A 250VAC
Max. switching voltage	440VAC / 125VDC
Max. switching current	20A
Max. switching power	5000VA
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)

COIL

Coil power	400mW
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COIL DATA

at 23°C

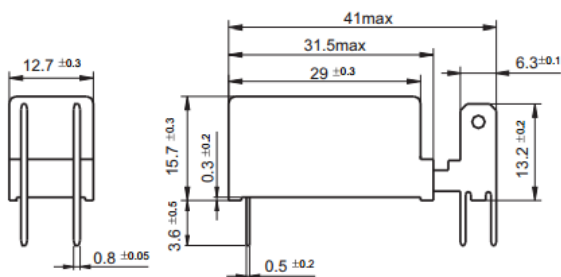
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.50	0.5	7.5	62 x (1±10%)
6	4.20	0.6	9.0	90 x (1±10%)
9	6.30	0.9	13.5	202 x (1±10%)
12	8.40	1.2	18.0	360 x (1±10%)
18	12.6	1.8	27.0	810 x (1±10%)
24	16.8	2.4	36.0	1440 x (1±10%)
48	33.6	4.8	72.0	5760 x (1±15%)
60	42.0	6.0	90.0	7500 x (1±15%)
110	77.0	11.0	165.0	25200 x (1±15%)

CHARACTERISTICS

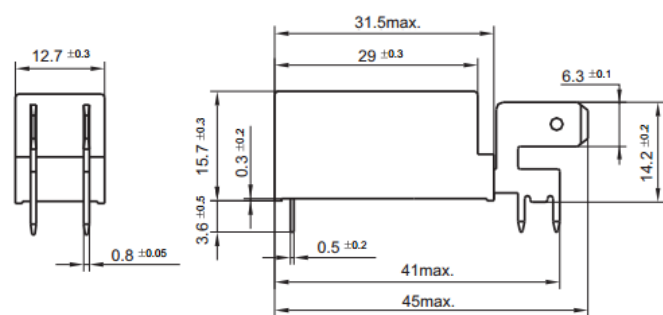
Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2 x 50μs)
Operate time (at nomi. volt.)		15ms max.
Release time (at nomi. volt.)		8ms max.
Temperature rise (at nomi. volt.)		55K max.
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		1A: 10Hz to 150Hz 10g 1B: 10Hz to 150Hz 5g
Humidity		35% to 85% RH
Ambient temperature		-40°C to 125°C
Termination		PCB & QC
Unit weight		Approx. 16g
Construction		Flux proofed

Outline Dimensions

Quick connect terminals vertical



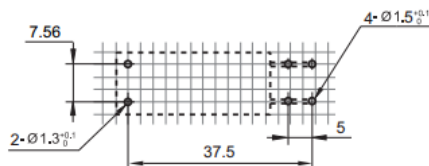
Quick connect terminals horizontal



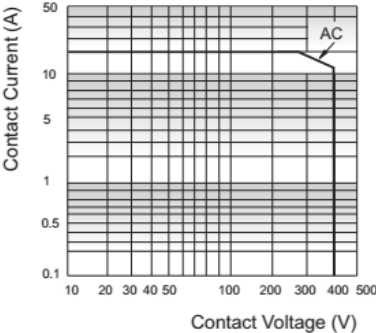
Wiring Diagram
(Bottom view)



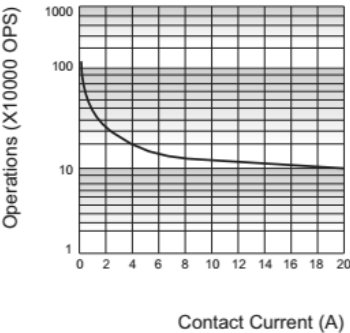
PCB Layout
(Bottom view)



MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL OPERATING RANGE (DC)

