

Datasheet

SPDT PCB Mount Non-Latching Relay, 6V dc

RS Stock 476-684



Features

- 10A switching capability
- 5kV dielectric strength (between coil and contacts)
- Low height: 12.5 mm
- Creepage distance >8mm
- Meeting VDE 0700, 0631 reinforce insulation
- Product in accordance to IEC 60335-1 available
- 1 pole configurations available
- Sockets available
- Wash tight and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.5 x 10.1 x 12.5) mm

CONTACT DATA

Contact arrangement	1A,1B,1C (specialties 1A5,1B6)
Contact material	See ordering info.
Contact resistance	100mΩ (at 1A 6VDC)
Contact rating (Res. load)	10A 250VAC/30VDC
Max. switching voltage	440VAC / 125VDC
Max. switching current	10A
Max. switching power	2500VA / 300W
Mechanical endurance	1 x 10 ⁷ OPS
Electrical endurance	1 x 10 ⁵ OPS (See approval reports for more details)

COIL

Coil power	220 to 290mW
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COIL DATA at 23°C

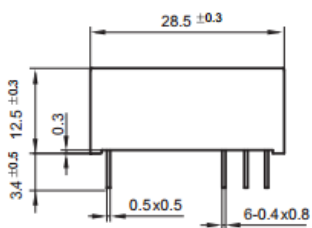
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
5	3.50	0.5	11.8	113 x (1±10%)
6	4.20	0.6	14.1	164 x (1±10%)
9	6.30	0.9	21.2	360 x (1±10%)
12	8.40	1.2	28.2	620 x (1±10%)
18	12.70	1.8	42.3	1295 x (1±10%)
24	16.80	2.4	56.4	2350 x (1±15%)
48	33.60	4.8	112.8	8000 x (1±15%)
60	42.00	6.0	141.0	12500 x (1±15%)

CHARACTERISTICS

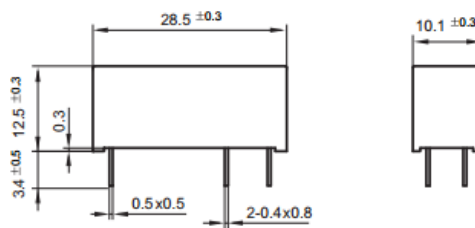
Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Surge voltage (between coil & contacts)		10kV (1.2 x 50μs)
Operate time (at nomi. vot.)		10ms max.
Release time (at nomi. vot.)		5ms max.
Temperature rise (at nomi. Volt.)		55K max.
Shock resistance *	Functional	NC: 49m/s ² NO: 98m/s ²
	Destructive	980m/s ²
Vibration resistance *	NC (no coil voltage)	10Hz to 55Hz 0.8mm DA
	NO	10Hz to 55Hz 1.65mm DA
Ambient temperature		-40°C to 85°C
Humidity		35% to 85% RH
Termination		PCB
Unit weight		Approx. 8g
Construction		Wash tight, Flux proofed

Outline Dimensions

3.2mm pinning



5mm pinning



Wiring Diagram (Bottom view)

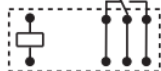
1 type



2 type



3 type



5 type

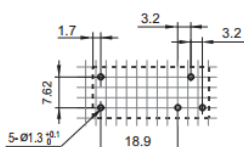


6 type

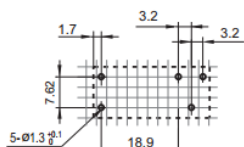


PCB Layout (Bottom view)

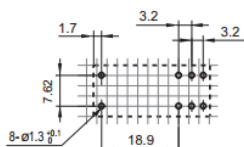
1 type



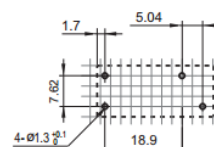
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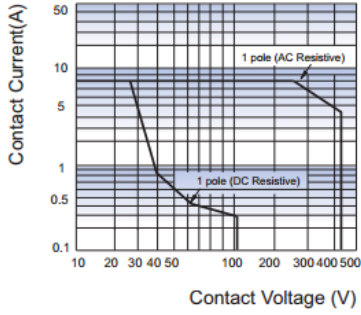
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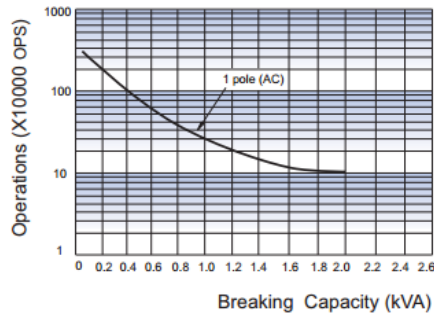
5/6 type



MAXIMUM SWITCHING POWER



ENDURANCE CURVE



REFLOW WELDING TEMPERATURE
(Reflow soldering version)

