



Datasheet

SPDT PCB Mount Non-Latching Relay, 12V dc

RS Stock number <u>476-589</u>

Dimensions: mm



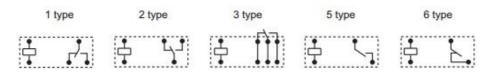


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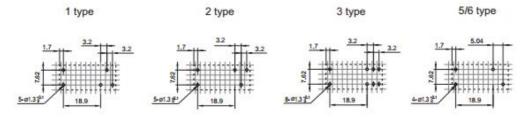


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Wiring Diagram (Bottom view)



PCB Layout (Bottom view)



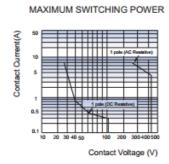
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

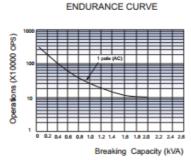
- The tolerance without indicating for PCB layout is always ±0.1mm.
 The width of the gridding is 2.54mm.

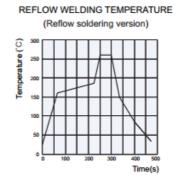




Characteristic Curves







Features

10A switching capability

5kV dielectric strength (between coil and contacts)

Low height: 12.5mm

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 x10.1 x 12.5) mm



ENGLISH

Contact Data

Contact arrangement: 1A, 1B, 1C

Contact resistance: $100m \Omega max$. (at 1A 6VDC) Contact rating (Res.load) 10A 250VAC / 30 VDC

Max. switching voltage: 440VAC / 125VDC

Max. switching current: 10A

Max. switching power: 2500VA/ 300W Mechanical endurance: 1x10(7) OPS Electrical endurance: 1x10(5) OPS

Characteristics

Insulation resistance: 1000M Ω (at 500VDC)

Dielectric Strength: Between coil & contacts 5000VAC 1min

Between open contacts 1000VAC 1min

Surge voltage(between coil & contacts) 10kV (1.2/50us)

Operate time (at nomi. Volt.): 10ms max Release time (at nomi. Volt.): 5ms max Temperature rise (at nomi. Volt.): 55K max

Shock resistance: Functional NC - 49m/s NO-98m/s

Destructive 980m/s

Vibration resistance: 10Hz to 55Hz 0.8mm DA

Humidity: 35% to 85% RH

Ambient temperature: -40degC to 85deg

Termination: PBC

Unit weight: Approx. 8g Construction: Wash tight Flux Proof

Coil

Coil power: Approx. 220 to 290mW



ENGLISH

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%)	

Notes: The max. allowable voltage in the COIL DATA is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in a very short time.

Safety Approval Ratings

		10A 250VAC
		10A 30VDC
UL&CUL (AgNi, AgSnO ₂)	version 1,2,3,5,6	B300
		R300
		1/2HP 240VAC
		AgSnO2: 1/3HP 120VAC
VDE	1H (;S) (1;2;3;5.;7) (-;G)	8A 250VAC at 85°C
(AgNi, AgNi+Au)	1D (;S) (1;2;3;6) (-;G)	8A 250VAC at 85°C
(Agivi, Agivi+Au)	1Z (-;S) (1;2;3) (-;G)	8A 250VAC at 85°C
	1H (-;S) (1;2;3;5;7), T.(-;G)	8A 250VAC at 85°C
	1D (-;S) (1;2;3;6), T.(-;G)	8A 250VAC at 85°C
VDE	1Z (-;S) (1;2;3), T.(-;G)	8A 250VAC at 85°C
(AgSnO ₂ , AgSnO ₂ +Au)	1H (-;S) (1;2;3;5;7), T.(-;G)	AC-15 (Make: 30A 250VAC COS Ø=0.7 at 85°C
(5-11-1, 5-11-1,	TH (-,3) (1,2,3,5,7), 1.(-,0)	Break: 3A 250VAC COS Ø=0.4 at 85°C)
	1Z (-;S) (1;2;3), T.(-;G)	NO: AC-15 (Make: 30A 250VAC COS Ø=0.7 at 85°C
	12 (-,3) (1,2,3), 1.(-,0)	Break: 3A 250VAC COS Ø=0.4 at 85°C)

Notes: Only some typical ratings are listed above. If more details are required, please contact us.