

Professionally approved products. Datasheet

PCB Mount Latching Relay For Use In Power Applications

RS Stock number [476-577](#)

Dimensions: (mm)



Specification

- Maximum switching capability up to 50A
- Lamp load up to 5000W
- Capacitor load up to 200 μ F
- Creepage Distance: 8mm
- Dielectric Strength: more than 4000VAC (between coils and contacts)
- Wash tight and flux proofed types available
- Manual switch function available
- Environmental friendly product
- RoHS Compliant
- Outline Dimensions: (39.0 x 15.0 x 30.2)

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Datasheet

CONTACT DATA

Contact arrangement	1A, 1C
Contact resistance	50mΩ (at 1A 24VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating	1A: 50A 250VAC, 1 x 10 ⁵ ops(Resistive) 5000W 220VAC, 3 x 10 ⁴ ops (Incandescent & fluorescent lamp) 1C: 40A 250VAC, 3 x 10 ⁴ ops(Resistive)
Max. switching voltage	440VAC
Max. switching current	50A
Max. switching power	1A: 12500VA / 1C: 10000VA
Max. continuous current	50A
Mechanical endurance	1 x 10 ⁵ ops
Electrical endurance	See rated load

COIL DATA

at 23°C

Nominal Voltage VDC	Set/Reset Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance x (1±10%) Ω	
6	4.8	7.8	Single Coil	
12	9.6	15.6		24
24	19.2	31.2		96
48	38.4	62.4		384
6	4.8	7.8	Double Coil	
12	9.6	15.6		1536
24	19.2	31.2		2 x 12
48	38.4	62.4		2 x 48
				2 x 192
				2 x 768

CHARACTERISTICS

Insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	1500VAC 1min
Creepage distance (input to output)	1A: 8mm	
	1C: 6mm	
Pulse width of coil	50ms min. (Recommend: 100 to 200ms)	
Operate time (at nomi. volt.)	15ms max.	
Release time (at nomi. volt.)	15ms max.	
Max. operate frequency	1A: 20 cycles/min	
	1C: 10 cycles/min	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	98% RH, 40°C	
Ambient temperature	-40°C to 70°C	
Storage temperature	-40°C to 100°C	
Termination	PCB	
Unit weight	Approx. 32g	
Construction	Wash tight, Flux proofed	

Notes: The data shown above are initial values.

SAFETY APPROVAL RATINGS

UL&CUL (AgSnO ₂)	1 Form A	Resistive: 50A 277VAC Tungsten: 5000W 240VAC
	1 Form C	40A 277VAC

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

COIL

Coil power	Single Coil: 1.5W; Double Coil: 3.0W
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