

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)

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 ⁶ 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	24
12	9.6	15.6		96
24	19.2	31.2		384
48	38.4	62.4		1536
6	4.8	7.8	Double Coil	2 x 12
12	9.6	15.6		2 x 48
24	19.2	31.2		2 x 192
48	38.4	62.4		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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