Surge voltage Min. 10,000V, Slim type Power RPG RELAYS

1/2

Features

- ⇒Single pole, slim type relay.
- ◇Low power consumption : 200mW.
- Surge voltage between contacts and coil Min.
- No cadmium is used for contacts.
- ◇Approved by UL / C-UL , TÜV



Actual size

Applications

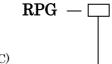
→Hot water units, Air conditioner, Microwave ovens, Refrigerator.

UL/C-UL, TÜV Rating

UL/C-UL :3A 1/10HP 250VAC, 3A 30VDC (UL/C-UL File No.E171049)

TÜV :3A 250VAC(Ohm ballast), 3A 30VDC(Ohm ballast) (TÜV File No.B101023811014)

Model Number



Coil voltage (3,5,6,9,12,24VDC)

Products Line(at 20 degree Celsius)

Model number	Nominal Voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (ohm)	Nominal operating current (mA)	Electric power consumption (mW)	Max .allowable voltage (VDC)
RPG-3	3			45	66.7		
RPG-5	5	75%	10%	125	40.0		
RPG-6	6	Max .of	Min .of	180	33.3	200	130% of
RPG-9	9	nominal	nominal	405	22.2	200	nominal voltage
RPG-12	12	voltage	voltage	720	16.7		
RPG-24	24			2,880	8.3		

RPG RELAYS

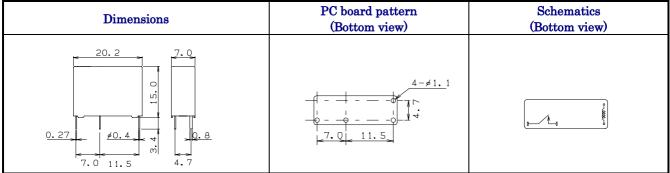
Typical Specifications

	Item	Specifications			
	Arrangement		1a		
Contact	Initial contact	resistance max.	Max.100 milliohm (By voltage drop 6VDC 1A)		
	Material		Ag alloy		
	Nominal Switchi	ng capacity	3A125VAC* , 3A250VAC* , 3A30VDC		
Rating	Max .switching	power	750VA , 150W		
	Max .switching	; voltage	250VAC , 30VDC		
	Max .switching	current	5A		
	Initial insulation	on resistance	Min. 1,000 megohm (at 500VDC)		
	Withstanding voltage (Initial)	Between open contacts	AC750V (1 minute)		
		Between contacts and coil	AC4,000V(1 minute)		
Electrical specification	Surge voltage(between contacts and coil)		10,000Vrms (1.2 x 50 microseconds)		
	Coil Temperature	rise(at nominal voltage)	Max. 45 degree Celsius (at20 degree Celsius , No contact carrying current)		
	Operate time(a	t nominal voltage)	Approx. 3msec		
	Release time(a	t nominal voltage)	Approx. 1msec		
	Shock	Functional	Min. 98m/s² (10G)		
Mechanical	resistance	Destruction	Min. 980 m/s ² (100G)		
specification	Vibration	Functional	10 to 55Hz at double amplitude of 1.5mm		
	resistance	Destruction	10 to 55Hz at double amplitude of 1.5mm		
	Mechanical life		5,000,000 operations (at 180cpm)		
Life expectancy	Electrical life(at rating)		200,000 operations (3A125VAC*, 3A30VDC) 100,000 operations (3A250VAC*) 50,000 operations (5A125VAC*, 5A30VDC) (at 20cpm)		
Ambient temperature	Operating		-40 to +70 degree Celsius (Without being frozen)		
Unit weight			Approx. 5g		

^{*}These AC ratings are under random phase-control. In driving AC load, life expectancy so greatly depends on the phase at turning on or off so that user should check selected relays with actual load

Dimensions

Unit:mm



Note

- 1. The appearance and specifications of the product may be modified without prior notice to improve its performance.
- 2. This catalog shows only outline specifications. When using the product, please obtain formal specifications for supply.
- 3. Please see appendix "Technical Definitions" and "Technical Notes".
- 4. Please feel free to contact us for relays with the specifications not shown in this catalogue.
- 5. Please confirm the performance on actual operation by simulation with actual environments for high reliability.