



8 A POWER RELAY

JG-RELAYS

22 .866 .551 11.6 .457

FEATURES

- Compact & flat design: 22 mm .866 inch (length) x 14 mm .551 inch (width) x 11.6 mm .457 inch (height)
- High capacity: 8 A nominal switching capacity
- High surge resistance: Min. 10,000 V between contact and coil
- High sensitivity: 200 mW nominal operating power
- VDE, TÜV, SEMKO also approved

mm inch

SPECIFICATIONS

Contact

Contact							
Arrangemen	t	1 Form A					
	t resistance, max. drop 6 V DC 1A)	100 mOhm					
Contact mate	erial	Silver alloy					
Rating (resistive load)	Nominal switching capacity	8 A 125 V AC 5 A 250 V DC 5 A 30 V DC					
	Max. switching power	1,250 VA, 150 W					
	Max. swtiching voltage	250 V AC, 110 V DC (0.3 A)					
	Max. switching current	8 A (AC), 5A (DC)					
Expected life (min. operations)	Mechanical (at 180 cpm)	5x10 ⁶					
	Electrical (at 8 A 125 V AC) (at 20 cpm)	10⁵					

Coil Nomina

Remarks

- * Specifications will vary with foreign standards certification ratings.
- *1 Measurement at same location as "Initial breakdown voltage" section
- *2 Detection current; 10 mA
- \star_3 Wave is standard shock voltage of $\pm 1.2 \times 50 \mu s$ according to JEC-212-1981
- *4 Excluding contact bounce time
- *5 Half-wave pulse of sine wave: 11ms; detection time: 10µs
- $^{\ast_{6}}$ Half-wave pulse of sine wave: 6ms
- *7 Detection time: 10µs
- *8 Refer to 5. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT (Page 61).

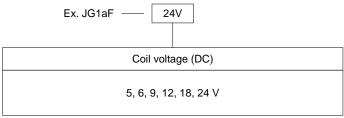
Characteristics

Max. operating speed		20 cpm			
Initial insulation resistar	ce*		Min. 100 mOhm at 500 V DC		
Initial Between	per	contacts	750 Vrms for 1 min.		
breakdown voltage*2 Between coil	cont	acts and	2,000 Vrms for 1 min.		
Surge voltage between coil*3	Min. 10,000 V				
Operate time*4 (at nomi	Approx. 5 ms				
Release time*4 (at nominal voltage)(wit	Approx. 3 ms				
Temperature rise (Ambient temperature:	Max. 45°C with nominal coil voltage and at 8 A contact current				
Shock resistance		nctional*5	Min. 98 m/s ² {10 G}		
		structive*6	Min. 980 m/s² {100 G}		
Vibration resistance		nctional*7	98 m/s 2 {10 G}, 10 to 55 Hz at double amplitude of 1.6 mm		
		structive	117.6 m/s 2 {12 G}, 10 to 55 Hz at double amplitude of 2 mm		
Conditions for operation transport and storage*8		Ambient temp.	−40°C to +70°C −40°F to +158°F		
(Not freezing and condens ing at low temperature)		Humidity	5 to 85% R.H.		
Unit weight		Approx. 7 g .25 oz			

TYPICAL APPLICATIONS

- Microwave ovens
- Small household appliances
- Water heaters
- Electric irons
- Coffee makers

ORDERING INFORMATION



Note: Standard packing: 100 pcs. Case: 500 pcs. UL/CSA, VDE approved type is standard.

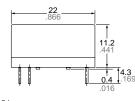
TYPES AND COIL DATA

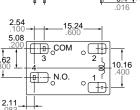
Part No.	Nominal voltage, V DC	Pick-up voltage, V DC (max.) (at 20°C 68°F)	Drop-out voltage, V DC (mim.) (at 20°C 68°F)	Coil resistance, Ohm (±10%) (at 20°C 68°F)	Nominal operating current. mA (±10%) (at 20°C 68°F)	Nominal operating power, mW	Max. allowable voltage, V DC (at 70°C 158°F)
JG1aF-5V	5	4.0	0.25	125	40	200	6.5
JG1aF-6V	6	4.8	0.3	180	33	200	7.8
JG1aF-9V	9	7.2	0.45	405	22	200	11.7
JG1aF-12V	12	9.6	0.6	720	17	200	15.6
JG1aF-18V	18	14.4	0.9	1,620	11	200	23.4
JG1aF-24V	24	19.2	1.2	2,880	8.3	200	31.2

DIMENSIONS

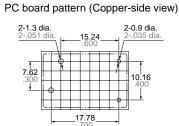
mm inch











Tolerance: ±0.1 ±.004

<u>Dimension</u>:

Max. 1mm .039 inch:

±0.2±.008

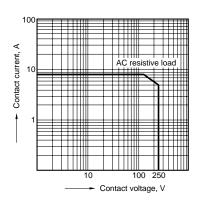
1 to 5mm .039 to .118 inch: ±0.3 ±.012 Min. 5mm .118 inch:

 $\pm 0.4 \pm .016$

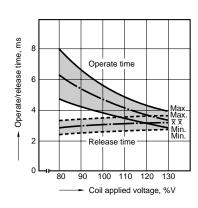
General tolerance

REFERENCE DATA

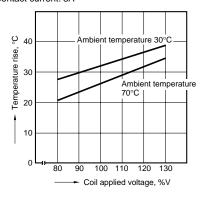
1. Maximum value for switching capacity



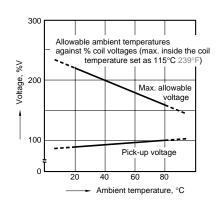
2. Operate/release time



3. Coil temperature rise Point measured: Inside the coil Contact current: 8A

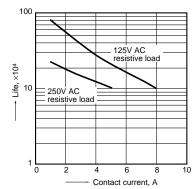


4. Ambient temperature characteristics Contact current: 8 A



5. Life curve

Operation frequency: 20 times/min. (ON/OFF = 1.5 s : 1.5 s) Ambient temperature: Room temperature

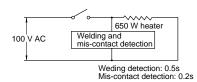


JG

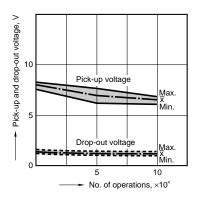
6. Electrical life test (5.8 A 100 V AC resistive load)

Sample: JG1aF-12V, 6 pcs. Operating speed: 20 cpm Ambient temperature: 80°C 176°F

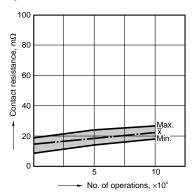
Circuit



Change of pick-up and drop-out voltage

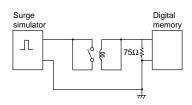


Change of contact resistance

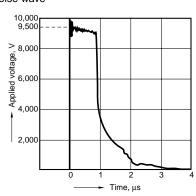


7. Electrical noise resistance characteristics between contact and coil Sample: JG1aF-12V

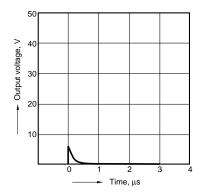
Circuit



Noise wave



Output wave



单击下面可查看定价,库存,交付和生命周期等信息

>>Panasonic(松下)