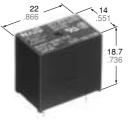




COMPACT ECONOMICAL POWER RELAYS





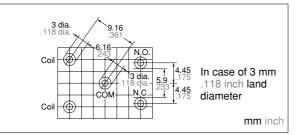
FEATURES

- · Compact size Height Max. 18.7 mm .736 inch lower than JY relay (22.5 mm) (.886 inch)
- High contact capacity 5A 125 V AC
- · Safety-oriented between coil and contact terminals
- All plastic materials: UL flame retardance 94V-0
- VDE, TÜV also approved

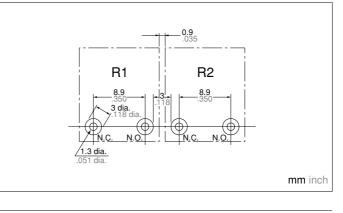
mm inch

TERMINAL LAYOUT

Distance of 9.16 mm .360 inch between common and coil terminals and 8.9 mm .350 inch between contacts give room to the land diameter width when the relay is mounted on PC board, and allow design of patterns with insulation distances of 6 mm .236 inch between common and coil and 5.9 mm .232 inch between contacts.



3 mm .118 inch or more insulation distance for close mounting can be kept easily with JE-X relays.



SPECIFICATIONS

Contact

Arrangement		1 Form C	
Initial contact resistance, max. (By voltage drop 6 V DC 1A)		100 mΩ	
Contact material		Silver alloy	
Nominal switching capacity	5 A 30 V DC, 5 A 125 V AC, 3A 250 V AC		
Max. switching power 750 VA, 150 W		150 W	
Max. switching voltage	250 V AC, 30 V DC		
Max. switching current	5 A		
Mechanical (at 180 cpm)	5×10 ⁶		
Electrical (at 20 cpm) (at rated load)	105		
	t resistance, max. frop 6 V DC 1A) erial Nominal switching capacity Max. switching power Max. switching voltage Max. switching current Mechanical (at 180 cpm) Electrical (at 20 cpm)	t resistance, max. frop 6 V DC 1A) arial Silver Nominal switching 5 A 30 V DC, 5 capacity 3A 250 Max. switching power 750 VA, Max. switching voltage 250 V AC, Max. switching current 5 Mechanical (at 180 cpm) 5× Electrical (at 20 cpm)	

Coil

Minimum operating power	196 mW
Nominal operating power	400 mW

Remarks

Specifications will vary with foreign standards certification ratings. Measurement at same location as "Initial breakdown voltage" section

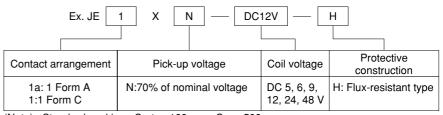
- *2 Detection current: 10 mA
- *3 Wave is standard shock voltage of $\pm1.2\times50\mu s$ according to JEC-212-1981 *4 Excluding contact bounce time
- *5 Half-wave pulse of sine wave: 6ms; detection time: 10µs *6 Half-wave pulse of sine wave: 6ms
- *7 Detection time: 10µs
- *8 Refer to 6. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT.

Characteristics

Max. operating speed			20 cpm (at 70°C)		
Initial insulation resistance*1			Min. 100 MΩ (at 500 V DC)		
Initial Between open contacts			750 Vrms		
	Between contacts and		1,500 Vrms		
Surge voltage between coil and contact*3			Min. 5,000 V		
Operate time*4 (at nominal voltage)			Approx. 10 ms		
Release time (without diode)*4 (at nominal voltage)			Approx. 2 ms		
Temperature rise (at 70°C)			Max. 45°C with nominal coil voltage and at nominal switching capacity		
Shock resistance		nctional*5	Min. 98 m/s ² {10 G}		
		estructive*6	Min. 980 m/s ² {100 G}		
Vibration resistance		nctional*7	98 m/s ² {10 G}, 10 to 55 Hz at double amplitude of 1.6 mm		
		estructive	117.6 m/s ² {12 G}, 10 to 55 Hz at double amplitude of 2.0 mm		
		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. 9.2g .32 oz			

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ORDERING INFORMATION



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

Contact arrangement	Coil voltago	Pick-up 70% V type	
	Coil voltage	Flux-resistant type	
1 Form A	5 V DC	JE1aXN-DC5V-H	
	6 V DC	JE1aXN-DC6V-H	
	9 V DC	JE1aXN-DC9V-H	
	12 V DC	JE1aXN-DC12V-H	
	24 V DC	JE1aXN-DC24V-H	
	48 V DC	JE1aXN-DC48V-H	
1 Form C	5 V DC	JE1XN-DC5V-H	
	6 V DC	JE1XN-DC6V-H	
	9 V DC	JE1XN-DC9V-H	
	12 V DC	JE1XN-DC12V-H	
	24 V DC	JE1XN-DC24V-H	
	48 V DC	JE1XN-DC48V-H	

COIL DATA (at 20°C 68°F)

Nominal voltage, V DC	Pick-up voltage, V DC (max.)	Drop-out voltage, V DC (min.)	Nominal operating currrent, mA (±10%)	Coil resistance, $\Omega(\pm 10\%)$	Nominal operating power, mW	Maximum allowable voltage, V DC (at 70°C)
5	3.5	0.5	80	62.5	400	6.5
6	4.2	0.6	67	90	400	7.8
9	6.3	0.9	44	202	400	11.7
12	8.4	1.2	33	360	400	15.6
24	16.8	2.4	17	1,440	400	31.2
48	33.6	4.8	8.3	5,760	400	62.4

DIMENSIONS

TYPICAL

Automotive

TYPES

Home appliances

Air conditioner etc.

Garage door opener

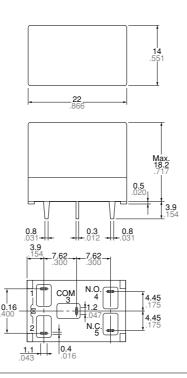
Programmable controller

Personal computer

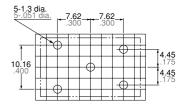
APPLICATIONS

Oven, range, dryer, heater,





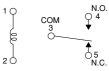
PC board pattern (Bottom view)



Tolerance: ±0.1 ±.004

mm inch

Schematic (Bottom view)

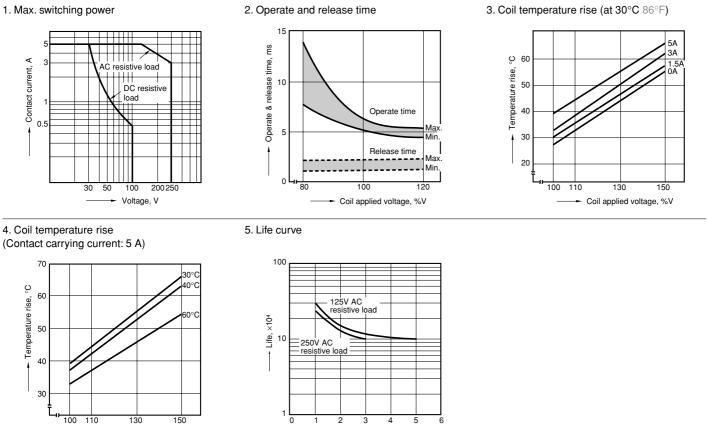


Note: The above shows 1 Form C type, and No. 5 terminal is eliminated on the 1 Form A type.

Dimension:	General tolerance
Max. 1mm .039 inch:	±0.2 ±.008
1 to 5mm .039 to .197 inch:	±0.3 ±.012
Min. 5mm .197 inch:	±0.4 ±.016

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JE-X REFERENCE DATA



Contact current, A

NOTE

Soldering should be carried out within 3 s at 350°C 662°F or within 5 s at 250°C 482°F.

Coil applied voltage, %V

For Cautions for Use, see Relay Technical Information.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panasonic(松下)