

JE8

SUBMINIATURE INTERMEDIATE POWER RELAY



File No.: E134517



File No.: CQC06017016720



Features

- Latching types available
- High sensitivity
- High switching capacity
1A: 8A 250VAC; 2A, 1X(1A + 1B): 5A 250VAC
- 1 Form A, 2 Form A and 1X(1A + 1B) contact arrangement
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 20.2 x 11.0 x 10.4mm

CONTACT DATA

Contact arrangement	1A	2A, 1X(1A + 1B)
Initial contact resistance Max.	No gold plated: 50mΩ (at 1A 6VDC) Gold plated: 30mΩ (at 1A 6VDC)	
Contact material	AgNi	
Contact rating (Res. load)	8A 250VAC 5A 30VDC	5A 250VAC 5A 30VDC
Max. switching voltage	380VAC / 125VDC	
Max. switching current	8A	5A
Max. switching power	2000VA/150W	1250VA/150W
Mechanical life	1 x 10 ⁷ OPS	
Electrical life	1 x 10 ⁵ OPS	

CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	3000VAC 1min.
	Between open contacts	1000VAC 1min.
	Between contact sets	2000VAC 1min.
Operate time (at nomi. volt.)	Max. 10ms (Approx. 5ms)	
Release time (at nomi. volt.)	Max. 5ms (Approx. 3ms)	
Set time (latching)	Max. 10ms (Approx. 5ms)	
Reset time (latching)	Max. 10ms (Approx. 4ms)	
Shock resistance	Functional	196m/s ² (20g)
	Destructive	980m/s ² (100g)
Vibration resistance	10 to 55Hz 2.0mm	
Humidity	5 to 85% RH	
Ambient temperature	-40°C to +70°C	
Termination	PCB	
Unit weight	Approx. 4.7g	
Construction	Sealed IP67, Flux proof	

COIL

Coil power	Single side stable	300mW
	1 coil latching	150mW
	2 coils latching	300mW

COIL DATA

Single side stable (300mW) at 20°C

Order Number	Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Coil Resistance (Ω±10%)	Max. Allowable Voltage (VDC) 70°C
3-□	3	2.4	0.3	30	3.9
5-□	5	4.0	0.5	83	6.5
6-□	6	4.8	0.6	120	7.8
9-□	9	7.2	0.9	270	11.7
12-□	12	9.6	1.2	480	15.6
24-□	24	19.2	2.4	1920	31.2

SAFETY APPROVAL RATINGS

UL&CUR	1 Form A	8A 250VAC 5A 30VDC 1/6HP 250VAC
	2 Form A	5A 250VAC 5A 30VDC 1/10HP 250VAC
	1X(1A + 1B)	5A 250VAC 5A 30VDC 1/6HP 250VAC



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2006 Rev. 1.21

COIL DATA

1 coil latching (150mW)

at 20°C

Order Number	Nominal Voltage (VDC)	Set / Reset Voltage (VDC)	Coil Resistance ($\Omega \pm 10\%$)	Max. Allowable Voltage (VDC) 70°C
3-□-L1	3	2.4	60	3.9
5-□-L1	5	4.0	167	6.5
6-□-L1	6	4.8	240	7.8
9-□-L1	9	7.2	540	11.7
12-□-L1	12	9.6	960	15.6
24-□-L1	24	19.2	3840	31.2

2 coils latching (300mW)

at 20°C

Order Number	Nominal Voltage (VDC)	Set / Reset Voltage (VDC)	Coil Resistance ($\Omega \pm 10\%$)	Max. Allowable Voltage (VDC) 70°C
3-□-L2	3	2.4	30	3.9
5-□-L2	5	4.0	83	6.5
6-□-L2	6	4.8	120	7.8
9-□-L2	9	7.2	270	11.7
12-□-L2	12	9.6	480	15.6
24-□-L2	24	19.2	1920	31.2

ORDERING INFORMATION

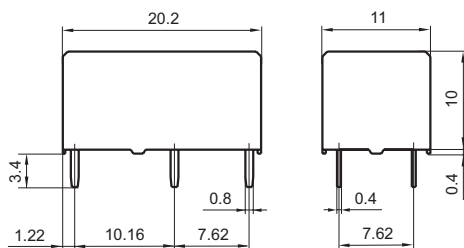
Type	JE8 / 12 -1H S G -L2 -R XXX
Coil voltage	3, 5, 6, 9, 12, 24VDC
Contact form	1H: 1 Form A 2H: 2 Form A 1HD: 1X(1A + 1B)
Construction	S: Sealed IP67 Nil: Flux proof
Contact plating	G: Gold plated Nil: No gold plated
Sort	L1: 1 coil latching L2: 2 coils latching Nil: Single side stable
Polarity	R: Reverse polarity Nil: Standard polarity
Customer special code	Only for special requirements, e.g. 555 stands for RoHS compliant

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

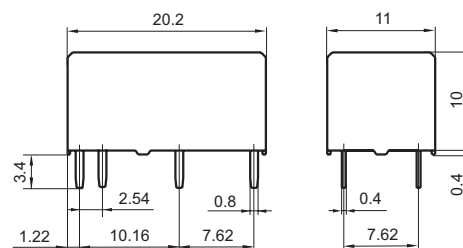
Unit: mm

Outline Dimensions

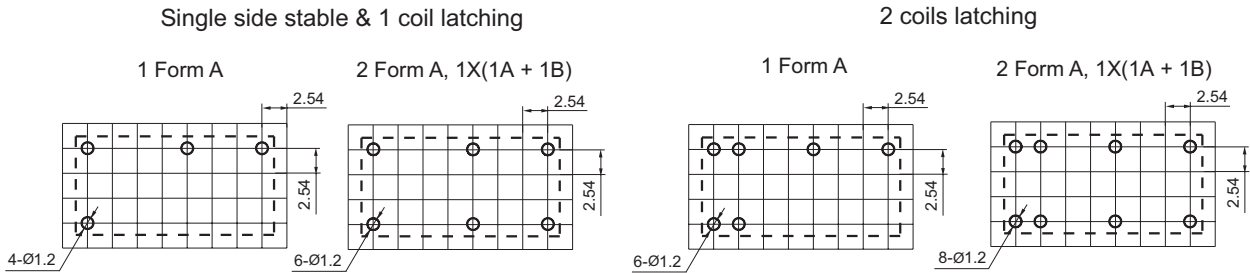
Single side stable & 1 coil latching



2 coils latching

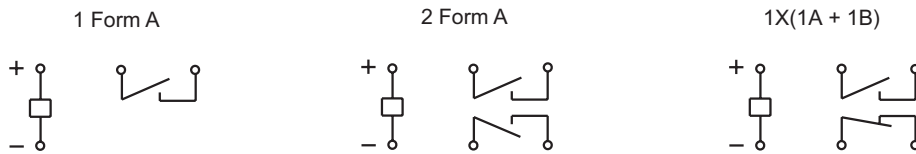


PCB Layout

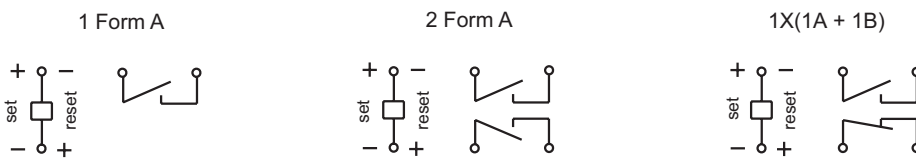


Wiring Diagram (Bottom view)

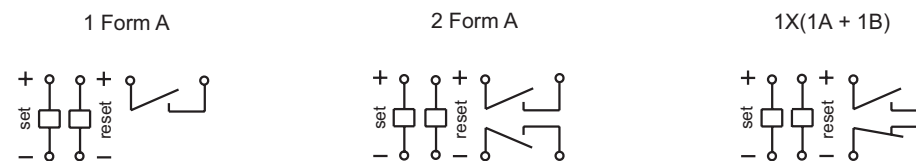
Single side stable (Deenergized condition)



1 coil latching (Reset condition)



2 coils latching (Reset condition)



Notice

1. Relay is on the "reset" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
2. In order to maintain "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
3. In order to avoid changing operate voltage, products should not be kept in strong magnetic field during transportation, storage and application.

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.