# JE8

# SUBMINIATURE INTERMEDIATE POWER RELAY



File No.: E134517



File No.: 40019452



File No.: CQC06017016720



## Features

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

CONTACT DATA				
Contact arrangement	1A	2A, 1A + 1B		
Contact	No gold plated: 50mΩ (at 1A 6VDC)			
resistance	Gold plated: 30mΩ (at 1A 6VDC			
Contact material	AgN			
Contact rating	8A 250VAC	5A 250VAC		
(Res. load)	5A 30VDC	5A 30VDC		
Max. switching voltage	380VAC / 125VDC			
Max. switching current	8A 8A			
Max. switching power	2000VA/150W	1250VA/150W		
Mechanical endurance	1 x 10 <sup>7</sup> ops			
Electrical endurance	1 x 10 <sup>5</sup> OPS			

CHARACTERISTICS				
Insulation resistance		ce	1000MΩ (at 500VDC)	
Between coil & contacts		coil & contacts	3000VAC 1min	
Dielectric strength	Betweer	open contacts	1000VAC 1min	
	Between contact sets		2000VAC 1min	
Operate t	ime (at no	omi. volt.)	10ms max. (Approx. 5ms)	
Release time (at nomi. volt.)		o <mark>mi. volt</mark> .)	5ms max. (Approx. 3ms)	
Set time (latching)			10ms max. (Approx. 5ms)	
Reset time (latching)		g)	10ms max. (Approx. 4ms)	
Shock resistance		Functional	200m/s² (20g)	
		Destructive	1000m/s² (100g)	
Vibration resistance		е	10Hz to 55Hz 2.0mm DA	
Humidity			5% to 85% RH	
Ambient temperature		re	-40°C to 70°C	
Termination		W W	PCB	
Unit weight			Approx. 4.7g	
Construction			Wash tight, Flux proofed	

Notes: The data shown above are initial	values.
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COIL		
	Single side stable	300mW
Coil power	1 coil latching	150mW
	2 coils latching	300mW

## COIL DATA

at 23°C

#### Single side stable (300mW)

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Order Number	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC 70°C	Coil Resistance Ω	
3-□□	3	2.4	0.3	3.9	30 x (1±10%)	
5-□□	5	4.0	0.5	6.5	83 x (1±10%)	
6-🗆 🗆	6	4.8	0.6	7.8	120 x (1±10%)	
9	9	7.2	0.9	11.7	270 x (1±10%)	
12-	12	9.6	1.2	15.6	480 x (1±10%)	
24-	24	19.2	2.4	31.2	1920 x (1±10%)	

# SAFETY APPROVAL RATINGS

		8A 250VAC
	1 Form A	5A 30VDC
		1/6HP 250VAC
		5A 250VAC
UL&CUR	2 Form A	5A 30VDC
		1/10HP 250VAC
		5A 250VAC
300 4	1A + 1B	5A 30VDC
		1/6HP 250VAC
VDE		8A 250VAC
	1 Form A	5A 30VDC
		5A 250VAC COSØ =0.4
	2 Form A	5A 250VAC
		5A 30VDC
	1A + 1B	3A 250VAC COSØ =0.4

**Notes:** Only some typical ratings are listed above. If more details are required, please contact us.



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

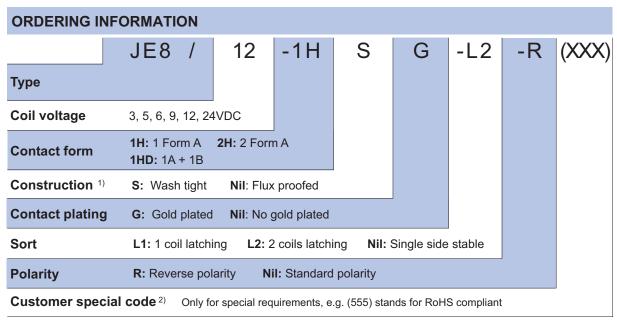
# COIL DATA at 23°C

#### 1 coil latching (150mW)

		•		
Order Number	Nominal Voltage VDC	Set / Reset Voltage VDC	Max. Allowable Voltage VDC 70°C	Coil Resistance Ω
3-□□-L1	3	2.4	3.9	60 x (1±10%)
5-□□ -L1	5	4.0	6.5	167 x (1±10%)
6-🗆 🗆 -L1	6	4.8	7.8	240 x (1±10%)
9-\1	9	7.2	11.7	540 x (1±10%)
12-□□ -L1	12	9.6	15.6	960 x (1±10%)
24-□□ -L1	24	19.2	31.2	3840 x (1±10%)

## 2 coils latching (300mW)

,					
Order Number	Nominal Voltage VDC	Set / Reset Voltage VDC	Max. Allowable Voltage VDC 70°C	Coil Resistance Ω	
3-□□ -L2	3	2.4	3.9	30 x (1±10%)	
5-□□ -L2	5	4.0	6.5	83 x (1±10%)	
6-🗆 -L2	6	4.8	7.8	120 x (1±10%)	
9-□□ -L2	9	7.2	11.7	270 x (1±10%)	
12-□□-L2	12	9.6	15.6	480 x (1±10%)	
24-□□ -L2	24	19.2	31.2	1920 x (1±10%)	



Notes: 1) Under the ambience with dangerous gas like H<sub>2</sub>S, SO<sub>2</sub> or NO<sub>2</sub>, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.

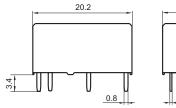
# **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

Unit: mm

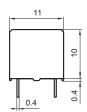
#### **Outline Dimensions**

Single side stable & 1 coil latching

20.2



2 coils latching



<sup>2)</sup> JE8 is an environmental friendly product. Please mark a special code (555) when ordering.

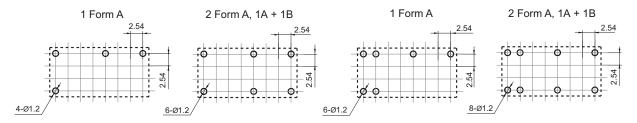
## **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**

Unit: mm

# PCB Layout (Bottom view)

Single side stable & 1 coil latching

2 coils latching

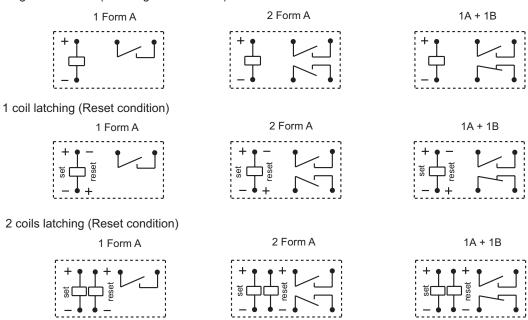


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

- 2) The tolerance without indicating for PCB layout is always ±0.1mm.
- 3) The width of the gridding is 2.54mm.

#### Wiring Diagram (Bottom view)

Single side stable (Deenergized 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.
- 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.

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