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	AgNi				
Contact rating	8A 250VAC	5A 250VAC			
(Res. load)	5A 30VDC	5A 30VDC			
Max. switching voltage	380VAC / 125VDC				
Max. switching current	8A	5A			
Max. switching power	2000VA/150W	1250VA/150W			
Mechanical endurance		1 x 10 ⁷ ops			
Electrical endurance		1 x 10⁵ ops			

CHARACTERISTICS				
Insulation resistance			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.)		omi. volt.)	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			PCB	
Unit weight			Approx. 4.7g	
Construction			Wash tight, Flux proofed	
Notes: The data shows above are initial values				

Notes:	The	data	shown	above	are	initial	values.

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

COIL DATA at 23°C

Single side stable (300mW)

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%)

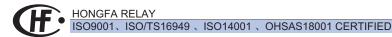
		8A 250VAC
	1 Form A	5A 30VDC
		1/6HP 250VAC
UL&CUR		5A 250VAC
	2 Form A	5A 30VDC
		1/10HP 250VAC
	1A + 1B	5A 250VAC
		5A 30VDC
		1/6HP 250VAC
		8A 250VAC
	1 Form A	5A 30VDC
VDE		5A 250VAC COSØ =0.4
VDE		

SAFETY APPROVAL RATINGS

2 Form A

1A + 1B

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



2007 Rev. 2.00

3A 250VAC COSØ =0.4

5A 250VAC

5A 30VDC

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-□□ -L1	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%)

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

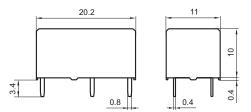
Notes: 1) Under the ambience with dangerous gas like H₂S, SO₂ or NO₂, wash tight type is recommended; please test the relay in real applications. If the ambience allows, flux proofed is preferentially recommended.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions

Single side stable & 1 coil latching





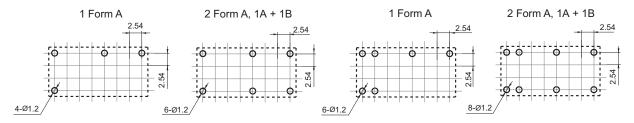
2 coils latching

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

PCB Layout (Bottom view)

Single side stable & 1 coil latching

2 coils latching

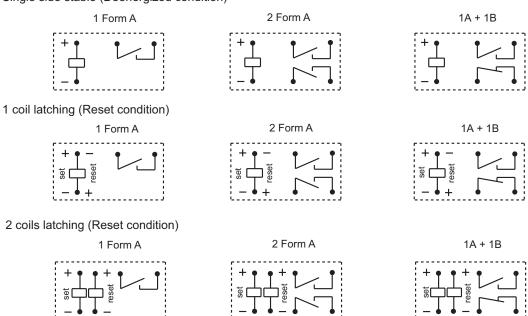


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

- 2) The tolerance without indicating for PCB layout $\,$ is always $\pm 0.1 mm$.
- 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.
- 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.

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