

JE10

MINIATURE HIGH POWER LATCHING RELAY



File No.: E134517



File No.: CQC06017016719



Features

- Maximum switching capability up to 50A
- Lamp load up to 5000W
- Motor load up to 5Hp
- Inrush current up to 170A
- Creepage distance: 8mm
- Dielectric strength: more than 4000VAC (between coil and contacts)
- Sealed IP67 and flux proof types available
- Manual switch function available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 39.0 x 15.0 x 30.2mm

CONTACT DATA

Contact arrangement	1A, 1C
Initial contact resistance Max.	50mΩ (at 1A 24VDC)
Contact material	AgSnO ₂ , AgCdO
Contact rating	1A: 50A 250VAC, 1 x 10 ⁵ OPS (Resistive) 5000W 220VAC, 3 x 10 ⁴ OPS (Incandescent & fluorescent lamp) 5Hp 250VAC, 3 x 10 ⁴ OPS (Motor) 1C: 40A 250VAC, 3 x 10 ⁴ OPS (Resistive)
Max. switching voltage	440VAC
Max. switching current	50A
Max. switching power	1A: 12500VA / 1C: 10000VA
Max. continuous current	50A
Mechanical life	1 x 10 ⁶ OPS
Electrical life	See rated load

CHARACTERISTICS

Initial insulation resistance	1000MΩ (at 500VDC)	
Dielectric strength	Between coil & contacts	4000VAC 1min.
	Between open contacts	1500VAC 1min.
Creepage distance (input to output)	1A: 8mm 1C: 6mm	
Pulse width of coil	Min. 50ms (Recommend: 100 ~ 200ms)	
Operate time (at nomi. volt.)	Max. 15ms	
Release time (at nomi. volt.)	Max. 15ms	
Max. operate frequency	1A: 20 cycles/min.	
	1C: 10 cycles/min.	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10 to 55Hz 1.5mm DA	
Humidity	98% RH, +40°C	
Ambient temperature	-40°C to +70°C	
Storage temperature	-40°C to +100°C	
Termination	PCB	
Unit weight	Approx. 32g	
Construction	Sealed IP67, Flux proof	

COIL DATA

at 20°C

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Max. Allowable Voltage (VDC)	Coil Resistance (Ω)	
6	4.8	7.8	Single Coil	24 ± 10%
12	9.6	15.6		96 ± 10%
24	19.2	31.2		384 ± 10%
48	38.4	62.4		1536 ± 10%
6	4.8	7.8	Double Coil	2 x 12 ± 10%
12	9.6	15.6		2 x 48 ± 10%
24	19.2	31.2		2 x 192 ± 10%
48	38.4	62.4		2 x 768 ± 10%

SAFETY APPROVAL RATINGS

UL&CUR	1 Form A	Resistive: 50A 277VAC Tungsten: 5000W 240VAC
	1 Form C	40A 277VAC

COIL

Coil power	Single Coil: 1.5W; Double Coil: 3.0W
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HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001、OHSAS18001 CERTIFIED

2006 Rev. 1.21

ORDERING INFORMATION

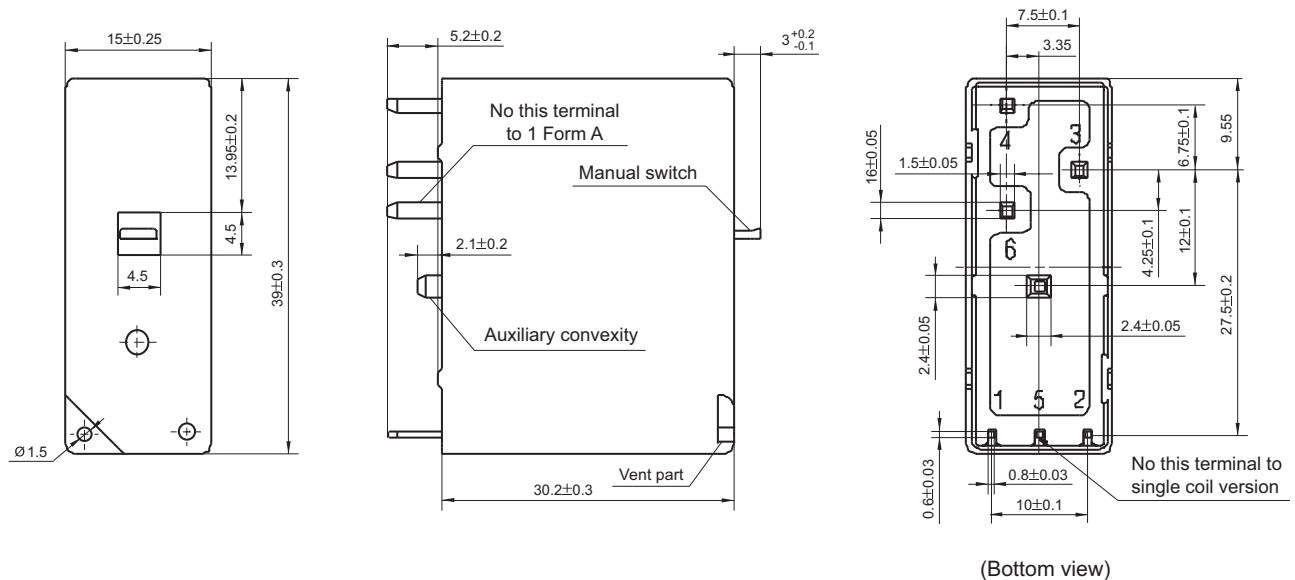
Type	JE10	-1/	12	-H	S	T	-L2	-R	XXX
Version	1: No auxiliary convexity, no manual switch 2: No auxiliary convexity, with manual switch 3: With auxiliary convexity, no manual switch 4: With auxiliary convexity, with manual switch								
Coil voltage	6, 12, 24, 48VDC								
Contact form	H: 1 Form A Z: 1 Form C								
Construction	S: Sealed IP67 (only for JE-1 & JE10-3) Nil: Flux proof								
Contact material	T: AgSnO ₂ Nil: AgCdO								
Sort	L1: Single coil latching L2: Double coil latching								
Polarity	R: Reverse polarity (See Wiring diagram) Nil: Standard polarity (See Wiring diagram)								
Customer special code (Only for special requirements)	e.g. 551 stands for RoHS compliant (Cadmium containing contacts) 555 stands for RoHS compliant (Cadmium-free contacts)								

- Notes:**
- 1) As to sealed version, before using relay, please remove the vent part on the top of the cover.
 - 2) Considering the initial state might be changed in transit (terminal 3# and 4# is opening by default), upon required, position should be set or reset.
 - 3) As to lamp load, capacitive load, motor load or some occasion asking for according with RoHS, please choose AgSnO₂ contact material.

OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit: mm

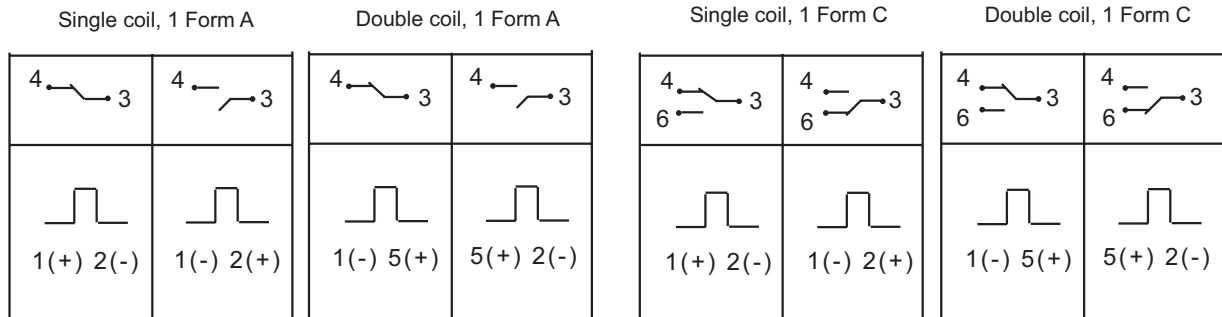
Outline Dimensions



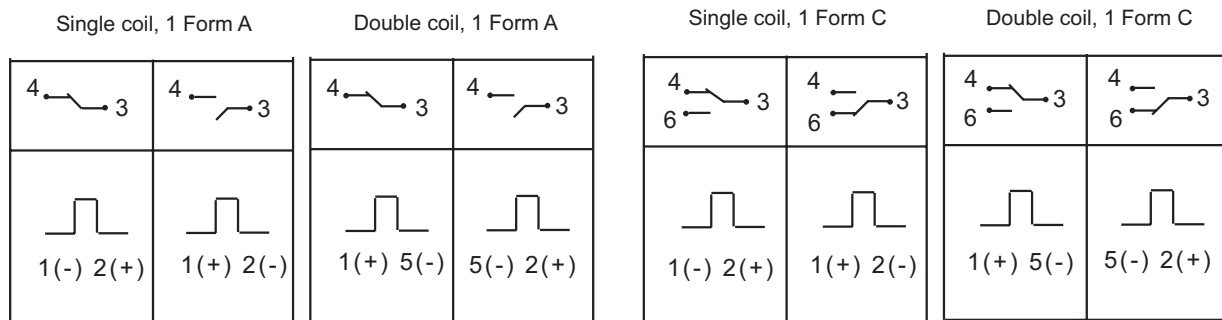
Remark: Non-indicated tolerance is ± 0.2 .

Wiring Diagram

Standard polarity



Reverse polarity



Notice

1. Relay is on the "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "reset" 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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