Non Promotional (Not for new designs)



POWER RELAY

1 POLE - 3, 5A Medium Load Control (AgCdO contacts)

JY Series

■ FEATURES

- UL, CSA recognized
- High sensitivity and low power consumption
- High insulation
- Wide operating range
- DIL pitch terminals
- Plastic sealed type, RTIII
- Socket mounting type and socket available
- Compatible with solid state relays type SJ
- RoHS compliant.

Please see page 7 for more information



■ Part Numbers

[Example]	JΥ	- 12	Н	Е	- K	Р	-	UL	
	(a)	(b)	(c)	(d)	(e)	(f)		(q)	

(a)	Relay type	JY	: JY series
(b)	Coil rated voltage	12	: 4.548VDC
(c)	Contact style		: 3A (single contact) : 5A (single contact)
(d)	Coil material	Nil E	: Gold flash silver cadmium oxide (single contact type) : Silver cadmium oxide (single contact type)
(e)	Enclosure	K	: Plastic sealed type, RTIII
(f)	Terminal type		: PC board mounting type : Socket mounting type (without JY-W)
(g)	Safety approval	Nil UL	: UL, CSA not approved type : UL, CSA approved type

1

■ Specifications

Item	эреспіса		JY - ()	JY - () E	JY - () H	JY - () HE	
			3A type		5A type		Remarks / conditions
Contact	Configuration			1			
data Construction				Sin			
	Material Resistance		Gold flash silver cadmium oxide	Silver cadmium oxide	Gold flash silver cadmium oxide	Silver cadmium oxide	
			Max. 30 mΩ	Max. 100 mΩ	Max. 30 mΩ	Max. 100 mΩ	Initial (at 6 VDC, 1A)
	Contact rating)	3A, 250VAC / 30VDC				
	Max. carrying	current		5			
	Max. switchin	g voltage		250VAC			
	Max. switchin	g power	750VA	A, 90W	1,250VA, 150W		
	Max. switchin		3	Α	5A (Socket 3A)		
	Min. switching load *		10mA 5VDC	100mA 5VDC	10mA 5VDC	100mA 5VDC	
Coil	il Rated power consumption		20	00 mW (48V	At 20°C		
	Operate power consumption			00 mW (48V	At 20°C		
	Operating temperature range		-40	°C ~ +90°C (4	No frost		
Timing data	Operate Release		Max. 6 ms			At nominal voltage (without bounce)	
				Max.	At nominal voltage (without diode)		
Life	Mechanical			Min. 20 x 10			
	Electrical			Min. 100 x 1	Contact rating		
Insula-	Insulation resistance			Min. 1,000 <i>N</i>	Initial		
	Dielectric strength	Open contacts	750VAC, 1 minute				
		Coil contact		2,000VAC			
	Surge strength	Coil to contacts	4,00	0V / 1.2 x 50			
Other	Vibration	Misoperation	10 to 55 to 10Hz single amplitude 0.75 mm				
	resistance	Endurance	10 to 55	to 10Hz sing			
	Shock resis-	Misoperation	Min. 100m/s² (11 ± 1ms)				
	tance	Endurance	Min. 1,000m/s² (6 ± 1ms)				
	Dimensions / weight		9.8 x 20.0 x 12.8 mm / approx. 5g				
	Sealing			Plastic se			

^{*:} Minimum switching loads mentioned above are reference values. Please perform the confirmation test with actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

■ Coil Data

Coil code	Rated Coil Voltage (VDC)	Coil Resistance +/-10% (Ω)	Must Operate Voltage* (VDC)	Must Release Voltage* (VDC)	Rated Power (mW)
4.5	4.5	100	3.1	0.23	
5	5	125	3.5	0.25	
6	6	180	4.2	0.3	
9	9	405	6.3	0.45	200
12	12	720	8.4	0.6	
18	18	1,620	12.6	0.9	
24	24	2,880	16.8	1.2	
48	48	6,400	32.6	2.4	360

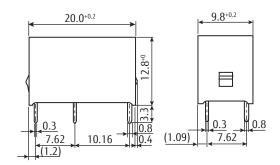
Note: All values in the table are valid for 20degC and zero contact current unless otherwise specified.

■ Safety Standards

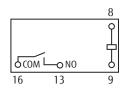
Туре	Compliance	Contact Rating
UL	UL 508	Flammability: UL 94-V0 (plastics)
	E56140	[JY-H, JY-HE] 5A, 250 VAC / 30 VDC (resistive)
CSA	C22.2 No. 14 LR 35579	1/8 HP, 125VAC, 250 VAC Pilot duty code C150 [JY, JY-E] 3A, 250 VAC / 30 VDC (resistive)
		1/10 HP, 125VAC, 250 VAC Pilot duty: D150

■ Dimensions

• Dimensions

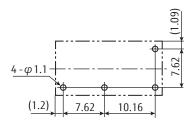


Schematics (BOTTOM VIEW



^{*:} Specified operated values are valid for pulse wave voltage.

 PC Board Mouting Hole Layout (BOTTOM VIEW)

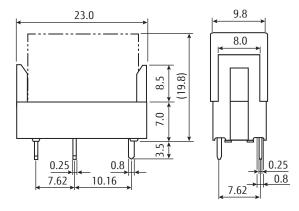


Tolerance of PC board mounting hole layout: ±0.1 unless otherwise specified.

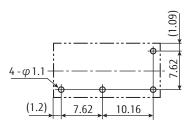
(): Reference value

Unit: mm

■ Socket Dimensions



 PC Board Mouting Hole Layout (BOTTOM VIEW)



Tolerance of PC board mounting hole layout: ±0.1 unless otherwise specified.

(): Reference value

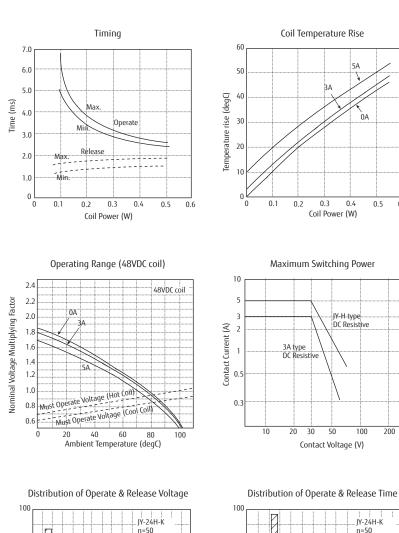
Unit: mm

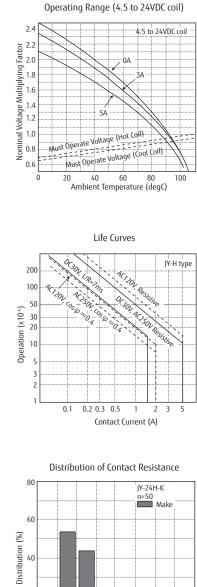
Note:

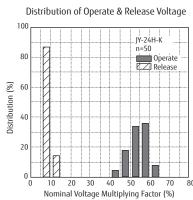
1: Socket ordering code: JK-4N

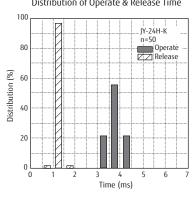
2: Standard IC socket is not recommended. Please use socket "JK-4N"

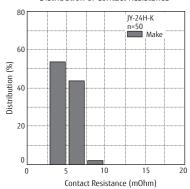
■ Characteristic Data

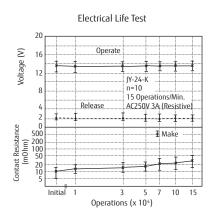


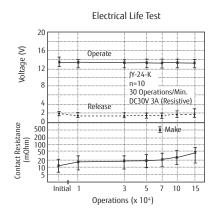


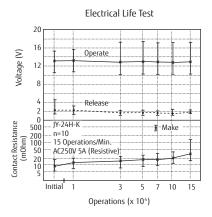


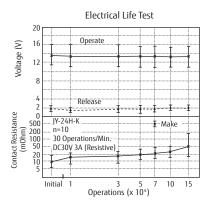


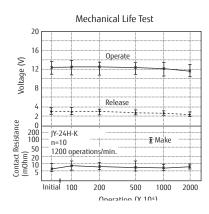












GENERAL INFORMATION

1. ROHS Compliance

- All relays produced by Fujitsu Components are compliant with RoHS directive 2011/65/EU including amendments.
- Use of Cadmium in electrical contacts is exempted as per Annex III of the RoHS directive 2001/65/EU.
 Please consider expiry date of exemption. Relays with Cadmium containing contacts are not to be used for new designs.
- All relays are lead-free. Please refer to Lead-Free Status Info for older date codes at: http://www.fujitsu.com/downloads/MICRO/fcai/relays/lead-free-letter.pdf
- Lead free solder plating on relay terminals is Sn-3.0Ag-0.5Cu, unless otherwise specified. This material has been verified to be compatible with PbSn assembly process.

2. Recommended Lead Free Solder Profile

• Recommended solder for assembly: Sn-3.0Aq-0.5Cu.

Solder by Soldering Iron:

Soldering Iron 30-60W

Temperature: maximum 350-360°C Duration: maximum 3 sec.

Flow Solder condition:

Pre-heating: maximum 120°C

within 90 sec.

Soldering: dip within 5 sec. at

255°C ± 5°C solder bath

Relay must be cooled by air immediately

after soldering

We highly recommend that you confirm your actual solder conditions

3. Moisture Sensitivity

Moisture Sensitivity Level standard is not applicable to electromechanical relays, unless otherwise indicated

4. Tin Whiskers

• Dipped SnAgCu solder is known as presenting a low risk to tin whisker development. No considerable length whisker was found by our in house test.

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