■ SPECIFICATION

Item			3A Type			5A Type	
			JY - () W	JY - ()	JY - () E	JY - () H	JY - () HE
Contact Data	Configuration		1 form A (SPST-NO)				
	Construction	Bifurcated Single					
	Material	Gold-over- lay silver alloy AgNi	Gold-plate silver cadmium oxide	Silver cadmium oxide	Gold-plate silver cad- mium oxide	Silver cad- mium oxide	
	Resistance (initial) (at 6	Max. 30 m	Ohm	Max. 100 mOhm	Max. 30 mOhm	Max. 100 mOhm	
	Contact rating	3A, 250VAC / 30VDC					
	Max. carrying current		5A				
	Max. switching voltage		250VAC / 150 VDC				
	Max. switching power		750VA, 90W		1,250VA, 150W		
	Max. switching current		3A				
	Min. switching load *		0.1mA 100 mVDC	10mA 5VDC	100mA 5VDC	10mA 5VDC	100mA 5VDC
Life	Mechanical		Min. 20 x 10 ⁶ operations				
	Electrical		Min. 100 x 10 ³ operations (contact rating)				
Coil Data	Rated power (at 20 °C)		200 mW (48V type: 360 mW)				
	Operate power (at 20 °C)		100 mW (48V type: 170 mW)				
	Operating temperature range		-40 °C to +90 °C (no frost) (48V type: +80 °C)				
Timing Data	Operate (at nominal voltage)		Max. 6 ms (without bounce)				
	Release (at nominal voltage)		Max. 3 ms (no diode)				
Insulation	Resistance (initial)	Min. 1,000MOhm at 500VDC					
	Dielectric strength	Open contacts	750VAC, 1min				
		Contacts to coil	2,000VAC, 1min				
	Surge strength	Coil to contacts	4,000V / 1.2 x 50µs standard wave				
Other	Vibration resistance	Misoperation	10 to 55Hz double amplitude 1.5 mm				
		Endurance	10 to 55Hz double amplitude 4.5 mm				
	Shock	Misoperation	Min. 100m/s ² (11 ± 1ms)				
	OHOUR	Endurance	Min. 1,000m/s² (6 ± 1ms)				
	Weight	Approximately 5 g					
	Sealing	Plastic sealed, RTIII					

^{*} 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 contions and expected reliability levels.

■ COIL RATING

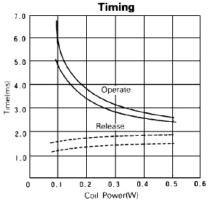
Coil Code	Coil Code	Rated Coil Voltage	Coil Resistance +/- 10% (Ohm)	Must Operate Voltage (VDC) *	Must Release- Voltage (VDC) *	Rated Power (mW)
5A type	3A type	(VDC)		(VDC)	(VDC)	
4.5	4.5	4.5	100	3.1	0.23	
5	5	5	125	3.5	0.25	
6	6	6	180	4.2	0.3	200
9	9	9	405	6.3	0.45	
12	12	12	720	8.4	0.6	
18	18	18	1,620	12.6	0.9	
24	24	24	2,880	16.8	1.2	
48	48	48	6,400	32.6	2.4	360
101	-	23.5	2,760	15.5	1.18	
105	-	12	720	8.4	0.6	200
107	-	5	125	3.5	0.25	

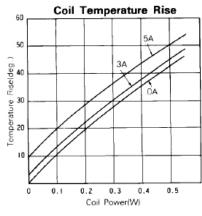
Note: All values in the table are valid for 20°C and zero contact current. * Specified operate values are valid for pulse wave voltage.

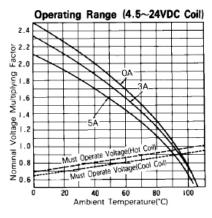
SAFETY STANDARDS

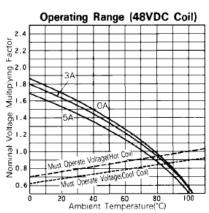
Туре	Compliance	Contact rating
UL	UL 508	Flammability: UL 94-V0 (plastics)
	E56140	[JY-H, JY-HE] 5A, 250 VAC / 30 VDC (resistive)
CSA	C22.2 No. 14 LR 35579	1/8 HP, 125VAC, 250 VAC Pilot duty code C150 [JY, JY-W, JY-E] 3A, 250 VAC / 30 VDC (resistive) 1/10 HP, 125VAC, 250 VAC Pilot duty: C150
VDE (JYW-K type)	VDE 0435 part 201	3A, 250VAC, cos φ1, 100K 3A, 30VDC, 0msec. 100K

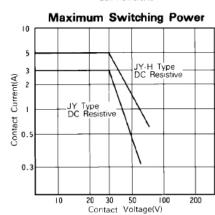
■ CHARACTERISTIC DATA

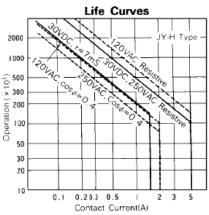




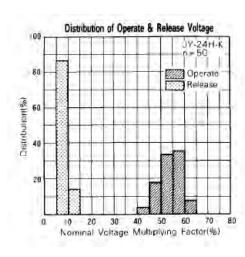


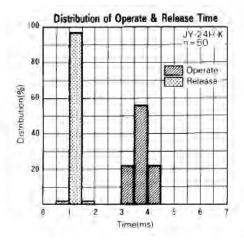


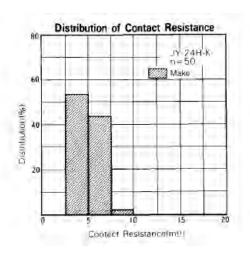


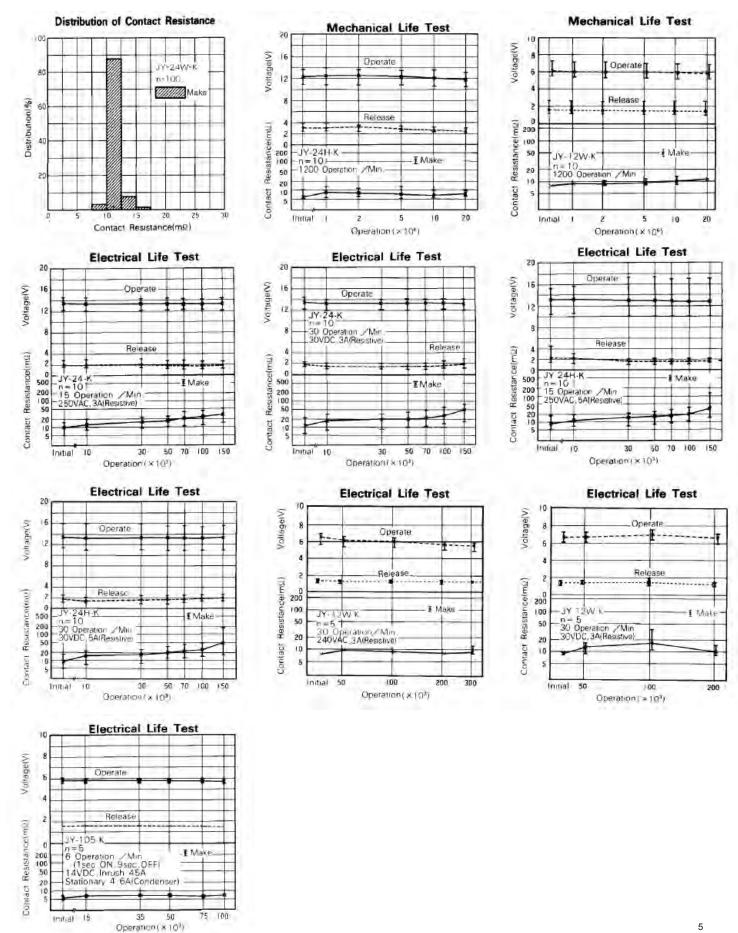


REFERENCE DATA





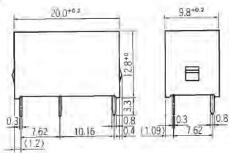




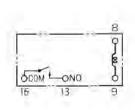
DIMENSIONS

Dimensions

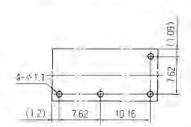
JY Type



 Schematics (BOTTOM VIEW)

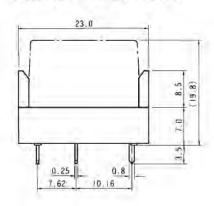


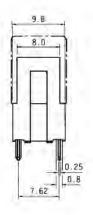
 PC board mounting hole layout (BOTTOM VIEW)



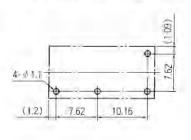
Unit: mm

■ SOCKET DIMENSIONS





PC board mounting hole layout



Unit: mm

NOTES

- 1. Socket ordering code: JK-4N
- Standard IC socket is not recommended. Please use socket "JK-4N".

RoHS Compliance and Lead Free Information

1. General Information

- All signal and power relays produced by Fujitsu Components are compliant with RoHS directive 2002/95EC including amendments.
- Cadmium as used in electrical contacts is exempted from the RoHS directives on October 21st, 2005.
 (Amendment to Directive 2002/95/EC)
- All of our signal and power relays are lead-free. Please refer to Lead-Free Status Info for older date codes at: http://www.fujitsu.com/us/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 Sn-3.0Ag-0.5Cu.

Flow Solder condition:

Pre-heating: maximum 120°C dip within 5 sec. at 260°C solder bath

Solder by Soldering Iron:

Soldering Iron

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

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.

7

Fujitsu Components International Headquarter Offices

Japan

Fujitsu Component Limited Gotanda-Chuo Building 3-5, Higashigotanda 2-chome, Shinagawa-ku Tokyo 141, Japan Tel: (81-3) 5449-7010 Fax: (81-3) 5449-2626

Email: promothq@ft.ed.fujitsu.com

Web: www.fcl.fujitsu.com

North and South America

Fujitsu Components America, Inc. 250 E. Caribbean Drive Sunnyvale, CA 94089 U.S.A. Tel: (1-408) 745-4900 Fax: (1-408) 745-4970

Email: components@us.fujitsu.com

Web: http://us.fujitsu.com/components

Europe

Fujitsu Components Europe B.V. Diamantlaan 25 2132 WV Hoofddorp Netherlands Tel: (31-23) 5560910 Fax: (31-23) 5560950 Email: info@fceu.fujitsu.com

Web: emea.fujitsu.com/components/

Asia Pacific

Fujitsu Components Asia Ltd. 102E Pasir Panjang Road #01-01 Citilink Warehouse Complex Singapore 118529 Tel: (65) 6375-8560

Fax: (65) 6273-3021 Email: fcal@fcal.fujitsu.com

Web: http://www.fujitsu.com/sg/services/micro/components/

©2010 Fujitsu Components Europe B.V. All rights reserved. All trademarks or registered trademarks are the property of their respective owners.

The contents, data and information in this datasheet are provided by Fujitsu Component Ltd. as a service only to its user and only for general information purposes.

The use of the contents, data and information provided in this datasheet is at the users' own risk.

Fujitsu has assembled this datasheet with care and will endeavor to keep the contents, data and information correct, accurate, comprehensive, complete and up to date.

Fujitsu Components Europe B.V. and affiliated companies do however not accept any responsibility or liability on their behalf, nor on behalf of its employees, for any loss or damage, direct, indirect or consequential, with respect to this datasheet, its contents, data, and information and related graphics and the correctness, reliability, accuracy, comprehensiveness, usefulness, availability and completeness thereof. Nor do Fujitsu Components Europe B.V. and affiliated companies accept on their behalf, nor on behalf of its employees, any responsibility or liability for any representation or warrant of any kind, express or implied, including warranties of any kind for merchantability or fitness for particular use, with respect to these datasheets, its contents, data, information and related graphics and the correctness, reliability, accuracy, comprehensiveness, usefulness, availability and completeness thereof. Rev. August 6, 2010.