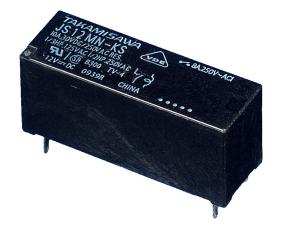


POWER RELAY 1 POLE - 8A (65A High Inrush Current) JS-KS Series

■ FEATURES

- Inrush current 65A, 1,000W, lamp load
- UL class B (130°C) coil wire insulation class
- 1 form A (SPST-NO)
- Contact application 3 (CA 3)
- Low profile and space saving:
 - Height: 12.5 mm
 - Mounting space: 290 mm²
- · High sensitivity in small package
 - Operating power 110 to 140mW
 - Nominal power 220 to 290mW
- · High insulation in small package
 - Insulation distance : 8 mm (between coil and contacts)
 - Dielectric strength: 5,000 VAC
 - Surge strength: 10,000 V
- Plastic materials
 - UL 94 flame class V-0
 - UL CTI level class 2
- Plastic sealed type, RTIII
- RoHS compliant.

Please see page 6 for more information



■ PARTNUMBER INFORMATION

(a)	Relay type	JS	: JS Series
(b)	Coil rated voltage	12	: 560VDC Coil rating table at page 3
(c)	Contact configuration	М	: 1 form A (SPST-NO)
(d)	Contact material	N	: Gold plate silver tin oxide
(e)	Enclosure	K	: Plastic sealed type, RTIII
(f)	Construction	S	: 5.0mm (lamp load 1,000W, 230VAC, 25K operations)

Note: Actual marking omits the hyphen (-) of (*)

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■ SPECIFICATION

Item			JS - () MN - KS		
Contact	Configuration		1 form A (SPST-NO)		
Data	Construction		Single A		
	Material		AgSnO ₂ + Gold plated 0.3µm		
	Resistance (initial)		Max. 100 mOhm (1A, 6VDC)		
	Contact rating		8A, 250VAC / 24VDC		
	Max. carrying current		10A		
	Max. switching voltage		400VAC / 150 VDC		
	Max. switching power		2,000VA / 192W		
	Min. switching load *		100 mA, 5 VDC		
Life	Mechanical		Min. 20 x 10 ⁶ operations		
		AC contact rating	Min. 100 x 10 ³ operations		
	Electrical	DC contact rating	Min. 100 x 10 ³ operations		
		Lamp load	1,000W 25 x 10 ³ operations at 230VAC		
Coil Data	Rated power (at 20 °C	<u> </u>	220 - 290 mW		
	Operate power (at 20 °	<u>'</u>	110 - 140 mW		
	Operating temperature		-40 °C to +85 °C (no frost)		
Timing Data	Operate (at nominal vo	oltage)	Max. 10ms (without bounce)		
	Release (at nominal vo	oltage)	Max. 5ms (no diode, without bounce)		
Insulation	Resistance (initial)		Min. 1,000MOhm at 500VDC		
	Dielectric strength	Open contacts	1,000VAC (50/60Hz) 1min		
		Contacts to coil	5,000VAC (50/60Hz) 1min		
	Surge strength	Coil to contacts	10,000V / 1.2 x 50µs standard wave		
	Clearance		8 mm		
	Creepage		8 mm		
	EN61810-1, VDE0435		250V		
		Pollution degree	3		
		Material group	III a		
	Category		C / 250V (reference voltage)		
Other	Vibration resistance	Misoperation>1us	10 to 55Hz double amplitude 1.65mm		
		Endurance>1us	10 to 55Hz double amplitude 3.3mm		
	Shock	Misoperation	Min. 100m/s² (11 ± 1ms)		
		Endurance	Min. 1,000m/s² (6 ± 1ms)		
	Weight		Approximately 8 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	Rated Coil Voltage (VDC)	Coil Resistance +/- 10% (Ohm)	Must Operate Voltage (VDC) *	Must Release- Voltage (VDC) *	Max. Coil Voltage (VDC)	Rated Power (mW)
5	5	112	3.5	0.5	11.8	
6	6	160	4.2	0.6	14.1	225
9	9	360	6.3	0.9	21.2	
12	12	660	8.5	1.2	28.3	220
18	18	1,455	12.7	1.8	42.4	225
24	24	2,350	16.8	2.4	56.6	245
48	48	8,000	33.4	4.8	105.6	000
60	60	12,500	41.7	6	132	290

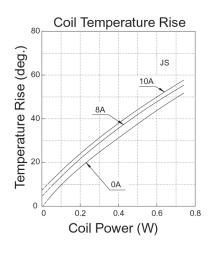
Note: All values in the table are valid for 20°C and zero contact current.

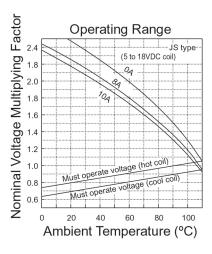
■ SAFETY STANDARDS

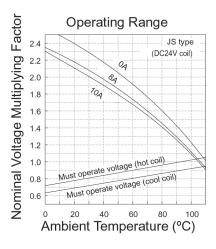
Туре	Compliance	Contact rating
UL	UL 508	Flammability: UL 94-V0 (plastics)
	E 56140	8 A 24 VDC (resistive) 100k operations 8 A 250 VAC (resistive) 100k operations
CSA	C22.2 No. 14 LR 35579	Pilot duty: A300, R300
VDE	0435, 0660, 40013847 40013847	AC: 15, 100 x 10 ³ DC: 13, 100 x 10 ³

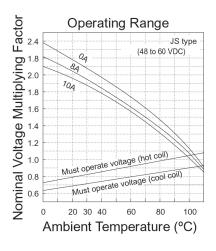
^{*} Specified operate values are valid for pulse wave voltage.

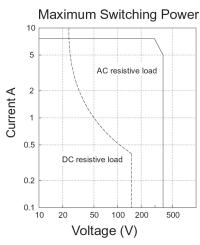
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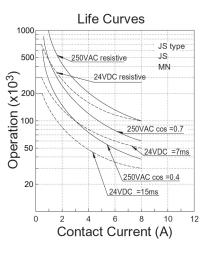




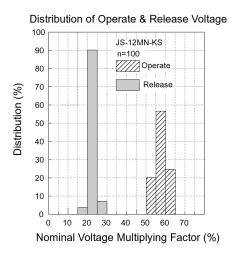


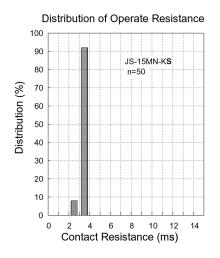






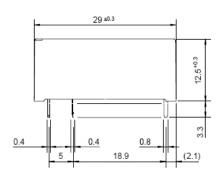
■ REFERENCE DATA

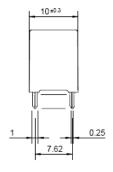




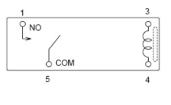
■ DIMENSIONS

DimensionsJS-MN-KS type



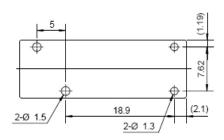


Schematics (BOTTOM VIEW)



Unit: mm

PC board mounting hole layout (BOTTOM VIEW)



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.

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