

ORDERING INFORMATION

Ex. JS

1a

F

B

12V

Contact arrangement	Protective construction	Coil insulation class	Coil voltage (DC)
1: 1 Form C 1a: 1 Form A	Nil: Sealed type F: Flux-resistant type	Nil: Class E insulation B: Class B insulation	5, 6, 9, 12, 18, 24, 48 V

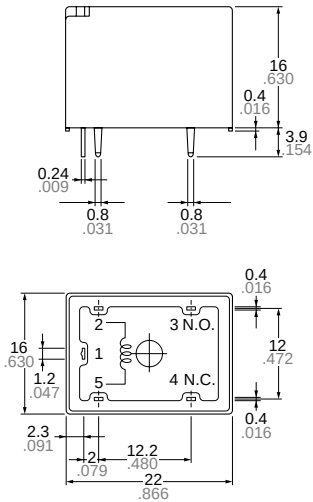
UL/CSA, VDE, TÜV approved type is standard.
Notes: 1. Standard packing: Carton: 100 pcs. Case: 500 pcs.
2. When ordering TV rated (TV-5) types, add suffix -TV.

COIL DATA

Part No.				Nominal voltage, V DC	Pick-up voltage, V DC (max.) (at 20°C68°F)	Drop-out voltage, V DC (min.) (at 20°C68°F)	Coil resistance, Ω (±10%) (at 20°C68°F)	Nominal operating current, mA (±10%) (at 20°C68°F)	Nominal operating power, mW (at 20°C68°F)	Max. allowable voltage (at 85°C185°F)
Sealed type		Flux-resistant type								
1 Form A	1 Form C	1 Form A	1 Form C							
JS1a-5V	JS1-5V	JS1aF-5V	JS1F-5V	5	3.5	0.5	69.4	72	360	130%V of nominal voltage
JS1a-6V	JS1-6V	JS1aF-6V	JS1F-6V	6	4.2	0.6	100	60		
JS1a-9V	JS1-9V	JS1aF-9V	JS1F-9V	9	6.3	0.9	225	40		
JS1a-12V	JS1-12V	JS1aF-12V	JS1F-12V	12	8.4	1.2	400	30		
JS1a-18V	JS1-18V	JS1aF-18V	JS1F-18V	18	12.6	1.8	900	20		
JS1a-24V	JS1-24V	JS1aF-24V	JS1F-24V	24	16.8	2.4	1,600	15		
JS1a-48V	JS1-48V	JS1aF-48V	JS1F-48V	48	33.6	4.8	6,400	7.5		

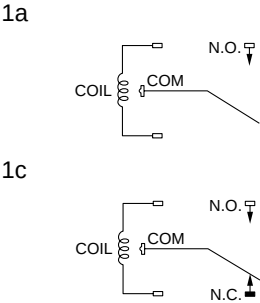
DIMENSIONS

mm inch

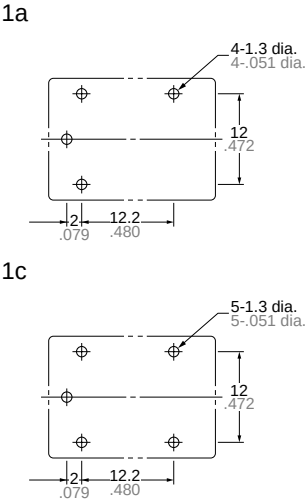


Note: Terminal No. 4 is only for 1 Form C type
General tolerance: ±0.3 ±.012

Schematic (Bottom view)



PC board pattern (Copper-side view)

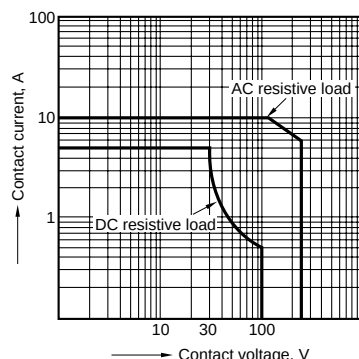


Tolerance: ±0.1 ±.004

JS

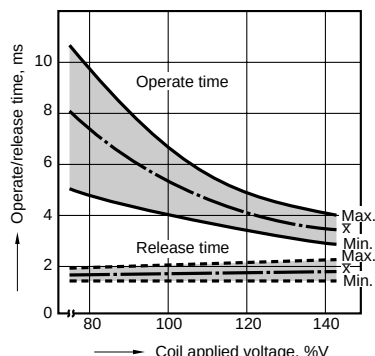
REFERENCE DATA

1. Maximum value for switching capacity



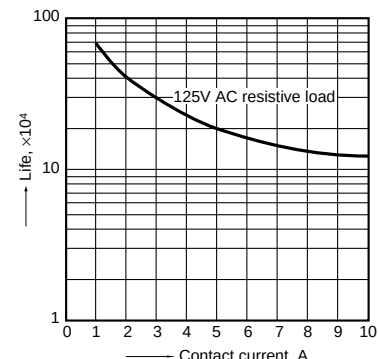
2. Operate/release time

Sample: 25 pcs., JS1-12V



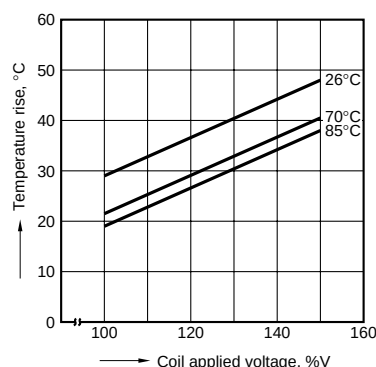
3. Life curve

Ambient temperature: Room temperature



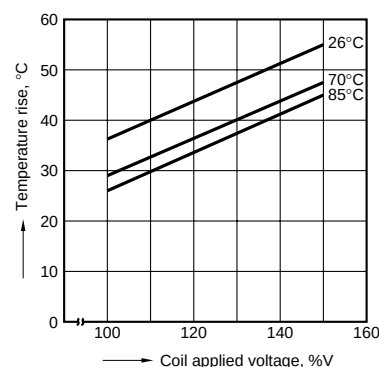
4-(1). Coil temperature rise

Sample: 5 pcs., JS1a-24V
Measured portion: Inside the coil
Contact current: 5 A



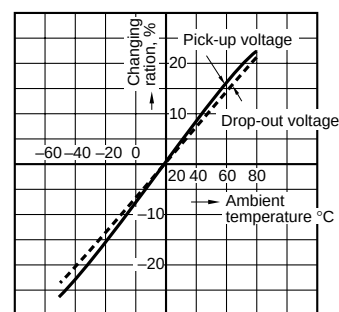
4-(2). Coil temperature rise

Sample: 5 pcs., JS1a-24V
Measured portion: Inside the coil
Contact current: 10 A



5. Ambient temperature characteristics

Sample: 6 pcs., JS1-12V

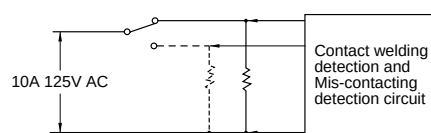


6. Electrical life test

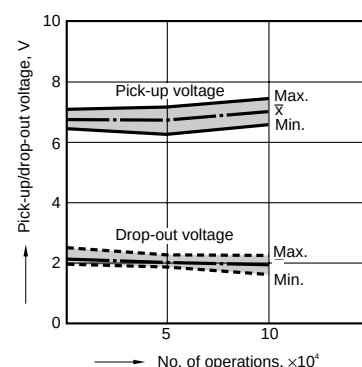
(10 A 125 V AC, resistive load)

Sample: 6 pcs., JS1-12V
Operating speed: 20 cpm
Ambient temperature: room temperature

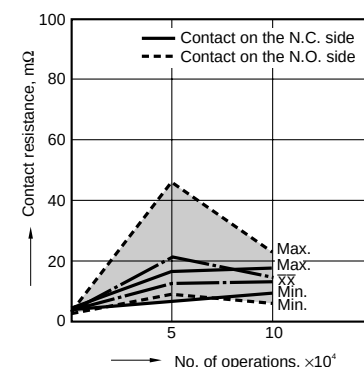
(Circuit)



Change of pick-up and drop-out voltage



Change of contact resistance



For Cautions for Use, see Relay Technical Information (Page 11 to 39).