

ORDERING INFORMATION

JT-N Relays (PCB and TMP type)

JT-N 1a S — TMP — F — DC12V				
Contact arrangement	Protective construction	Mounting classification	Coil insulation	Coil voltage
1a: 1 Form A 1: 1 Form C	S: Sealed type	PA: PCB type TMP: TMP type	F: Class F	DC 5, 6, 9, 12, 15, 18, 24 V

Notes: 1. UL/CSA approved type is standard.
2. Standard packing: PCB type: Carton: 50 pcs. Case: 500 pcs.
TMP type: Carton: 50 pcs. Case: 300 pcs.

COIL DATA (at 20°C 68°F)

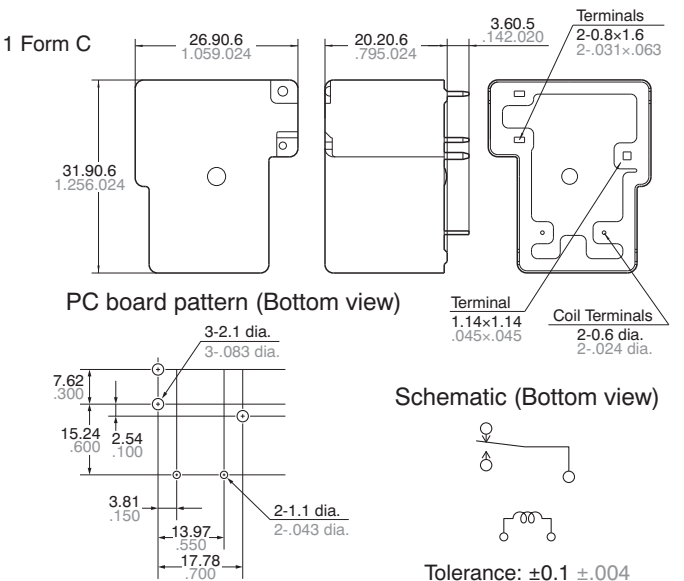
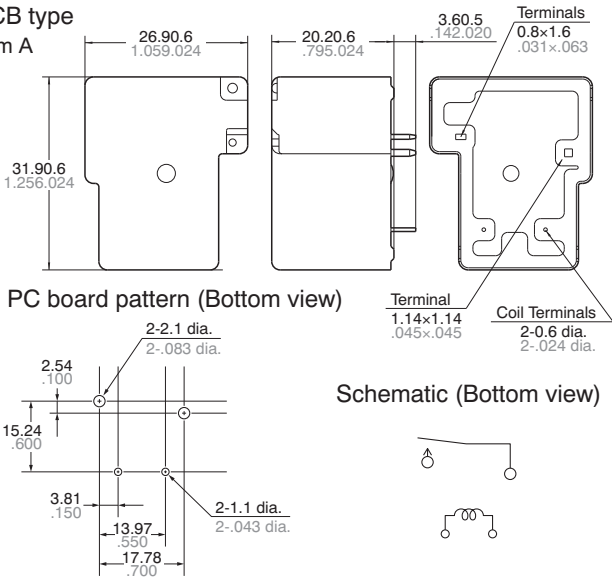
Nominal voltage, V DC	Pick-up voltage, V DC (max.) (Initial)	Drop-out voltage, V DC (min.) (Initial)	Coil resistance, Ω (±10%)	Nominal operating power, mW	Max. allowable voltage, V DC (at 70°C 158°F)
			PCB & TMP	PCB & TMP	
5	3.75	0.5	31	800	6
6	4.5	0.6	45	800	7.2
9	6.75	0.9	101	800	10.8
12	9.0	1.2	180	800	14.4
15	11.25	1.5	281	800	18
18	13.5	1.8	405	800	21.6
24	18.0	2.4	720	800	28.8

DIMENSIONS (mm inch)

Download [CAD Data](#) from our Web site.

CAD Data

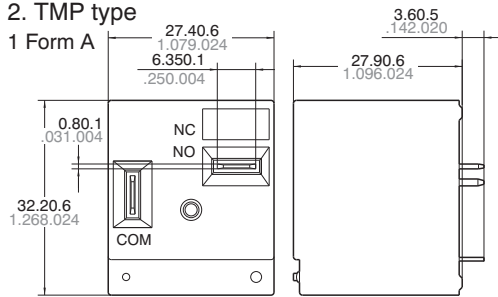
1. PCB type
1 Form A



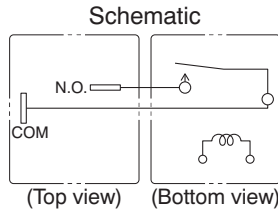
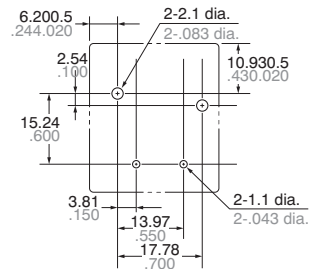
CAD Data

2. TMP type

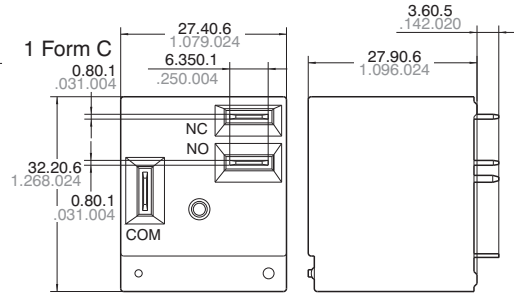
1 Form A



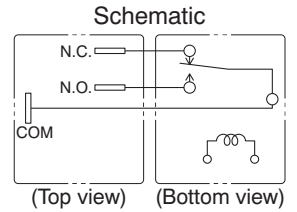
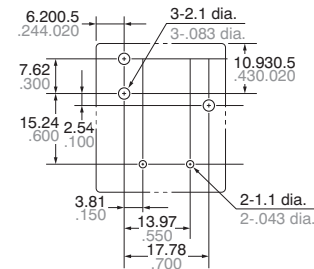
PC board pattern (Bottom view)



1 Form C



PC board pattern (Bottom view)

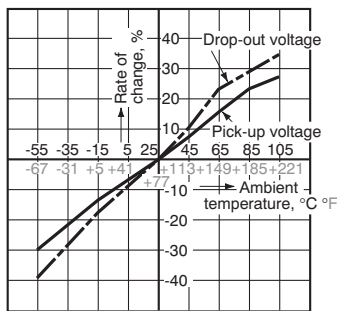


Tolerance: $\pm 0.1 \pm .004$

REFERENCE DATA

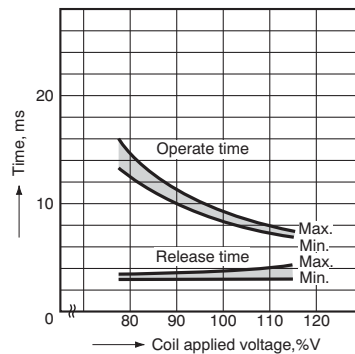
1. Change of rate of pick-up and drop-out voltage (at 20°C 68°F)

Sample: JTN1S-TMP-F-DC24V (6 pcs.)



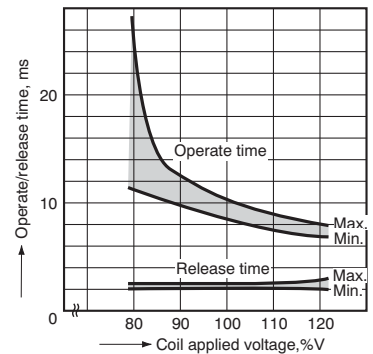
2. Operate & release time (at 20°C 68°F)

Sample: JTN1S-TMP-F-DC24V (6 pcs.)



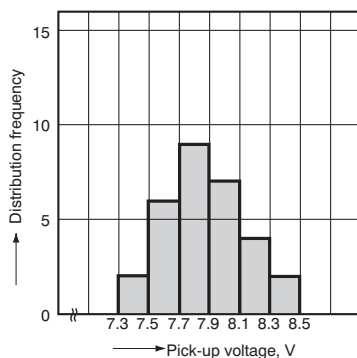
3. Operate & release time (at 20°C 68°F)

Sample: JTN1aS-TMP-F-DC24V (6 pcs.)



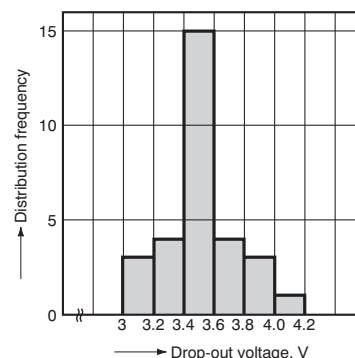
4. Distribution frequency of pick-up voltage (at 20°C 68°F)

Sample: JTN1S-TMP-F-DC12V (30 pcs.)



5. Distribution frequency of drop-out voltage (at 20°C 68°F)

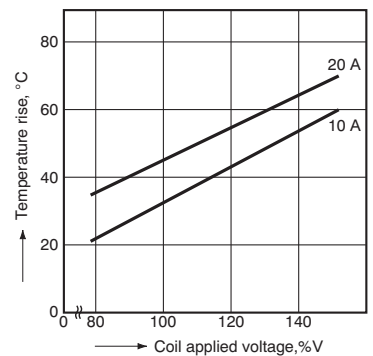
Sample: JTN1S-TMP-F-DC12V (30 pcs.)



6.-(1) Coil temperature rise (TMP type)*

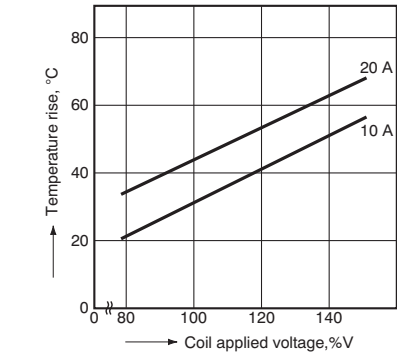
Ambient temperature: 20°C 68°F

Sample: JTN1aS-TMP-F-DC12V (6 pcs.)

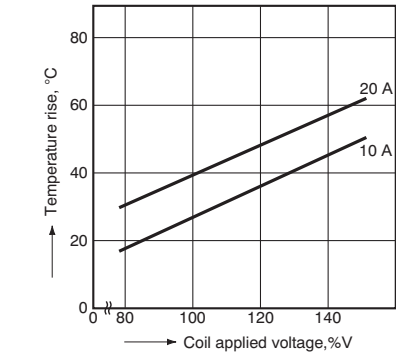


* Coil temperature rise of sealed types are same as data of the dust cover type.

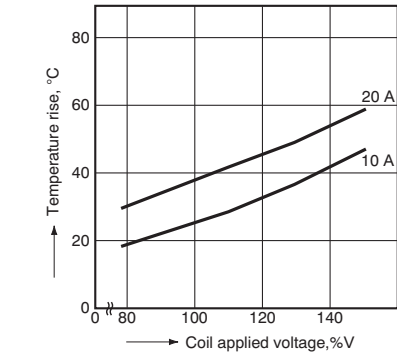
Ambient temperature: 55°C 131°F
Sample: JTN1aS-TMP-F-DC12V (6 pcs.)



Ambient temperature: 85°C 185°F
Sample: JTN1aS-TMP-F-DC12V (6 pcs.)



Ambient temperature: 105°C 221°F
Sample: JTN1aS-TMP-F-DC12V (6 pcs.)



SAFETY STANDARDS

Item		UL/C-UL (Recognized)	
		File No.	Contact rating
1 Form A		E43028	30A 277V AC, 30A 28V DC, 2HP 250V AC
1 Form C	N.O.	E43028	20A 277V AC, 20A 28V DC, 2HP 250V AC
	N.C.	E43028	10A 277V AC, 10A 28V DC, 1/2HP 250V AC

* CSA standard: Certified by C-UL

For Cautions for Use, see [Relay Technical Information](#).