

**FTR-K3-HC 25A Relay****FEATURES**1 pole **25A**, 1 form A

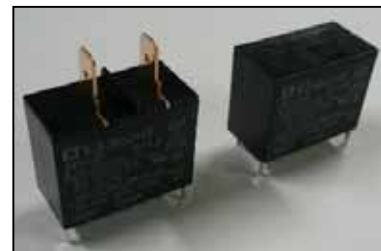
High insulation in small package (between coil and contacts)

- Insulation distance : clearance Min. 6.5mm  
creepage Min. 9.5mm
- Dielectric strength : AC5,000V
- Surge strength : 8,500V

Plastic materials

- Flammability : UL94 V-0

Contains no lead and features cadmium-free contacts for eco-program

**RoHS compliant****ORDERING INFORMATION**

**[Example]**    FTR-K3    A    B    012    W    -HC  
                   (a)        (b)    (c)    (d)    (e)    (f)

(a)	Series Name	FTR-K3
(b)	Contact Arrangement / Terminal Arrangement	A : 1 form A / PCB type J : 1 form A / Tab type
(c)	Coil Sensitive	B : Standard Sensitive (0.78W)
(d)	Coil Number	Coil Nominal Voltage (ex.012 12VDC)
(e)	Contact material	W : AgSnO <sub>2</sub>
(f)	Option code	HC : Contact rating 25A

**COIL DATA CHART**

Model	Nominal Voltage	Coil Resistance ( $\pm 10\%$ )	Must Operate Voltage	Must Release Voltage	Nominal Power
FTR-K3(A;J)B005W-HC	5VDC	32	3.5VDC	0.5VDC	0.78W
FTR-K3(A;J)B006W-HC	6VDC	46	4.2VDC	0.6VDC	0.78W
FTR-K3(A;J)B009W-HC	9VDC	105	6.3VDC	0.9VDC	0.78W
FTR-K3(A;J)B012W-HC	12VDC	185	8.4VDC	1.2VDC	0.78W
FTR-K3(A;J)B018W-HC	18VDC	415	12.6VDC	1.8VDC	0.78W
FTR-K3(A;J)B024W-HC	24VDC	740	16.8VDC	2.4VDC	0.78W
FTR-K3(A;J)B048W-HC	48VDC	2,955	33.6VDC	4.8VDC	0.78W

All values in the table are measured at 20 degree C.

**SPECIFICATIONS**

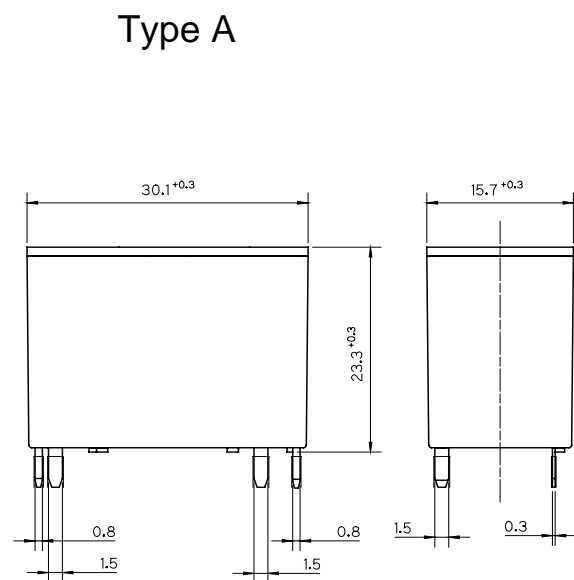
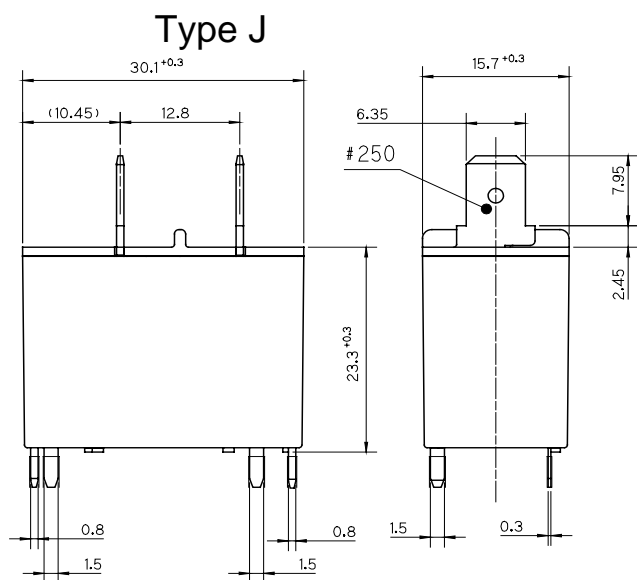
Item		FTR-K3-HC Relay
Contact	Arrangement	1 form A
	Material	Silver tin oxide
	Resistance (Initial)	Max. 100 mΩ (at 1A 6VDC)
	Rating (Resistive)	25A 250VAC
	Max. Carrying Current	25A
	Max. Switching Power	6,250VA
	Max. Switching Voltage	250VAC
	Max. Switching Current	25A
	Min. Switching Load	100mA 5VDC (Reference)
Coil	Nominal Power (at 20 °C)	0.78W
	Operate Power (at 20 °C)	0.38W
	Operating Temperature	-40 °C to +60 °C
Time Value	Operate (at nominal voltage)	Max. 20ms (Excluding bounce time, Without bounce)
	Release (at nominal voltage)	Max. 10ms (Excluding bounce time, Without bounce)
Insulation	Resistance (at 500VDC)	Min. 1,000MΩ
	Dielectric Strength	B/T contacts 1,000VAC, 1 minute
		B/T coil and contacts 5,000VAC, 1 minute
	Surge Strength	8,500V / 1.2x50μs
Life	Mechanical	Min. 2 x 10 <sup>6</sup> ope.
	Electrical (Resistive)	25A 250VAC, Min. 1 x 10 <sup>5</sup> ope.
Vibration Resistance	Miss operation	10 to 55 Hz at double amplitude of 1.5mm
	Endurance	10 to 55 Hz at double amplitude of 1.5mm
Shock Resistance	Miss operation	Min. 200m/s <sup>2</sup> (11±1ms)
	Endurance	Min. 1,000m/s <sup>2</sup> (6±1ms)
Weight		Approx. 25g

**SAFETY STANDARD (Under approval)**

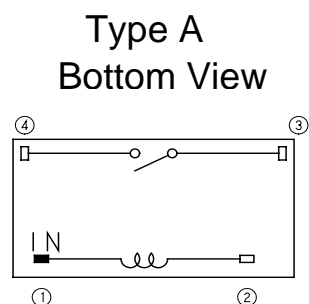
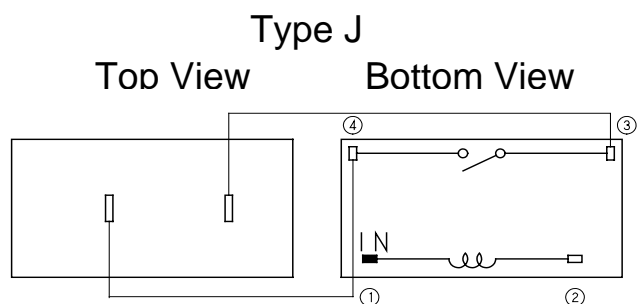
UL	UL508	25A, 277VAC 1HP, 125VAC 2HP, 277 VAC 100,000 ope.
VDE	0435	25A, 250VAC 100,000 ope. 60

**DIMENSIONS (Unit : mm)**

**External dimensions**



**Schematics**



**PC board mounting hole layout  
(Bottom View)**

