

HC3

► FEATURES

- Low height, flat construction
- High rating: 16A
- High sensitive
- PCB & QC layouts available
- Sealed IP67 & Flux proof
- RoHs compliant
- Outline : 20.0 x 16.5 x 10.5mm



► CONTACT DATA

Contact Form		1C	1A
Initial contact resistance		100m ohm (at 1A 6VDC)	
Contact Material		See ordering info.	
Contact rating		NO: 10A 125/250VAC NC: 6A 125/250VAC	Standard type: TV-5 10A 30VDC 10A 125/250VAC
			High Capacity type: TV-5 10A 30VDC 16A 125/250VAC 8A 250VAC(cos phi=0.4)
Max. switching Voltage		250VAC	250VAC / 30VDC
Max. switching current		NO : 10A NC : 6A	16A
Max. switching power		NO : 2500VA NC : 1500VA	4000VA / 300W
Life	Electrical	100,000 Operations (at 30 Operations / minute)	
Expectancy	Mechanical	10,000,000 Operations	

► OPERATION CONDITION

Initial Insulation resistance		1000M ohm 500VDC
Dielectric strength Between	Coil and contacts	2,500Vac, 1min.
	Open contacts	1,000Vac, 1min.
Operate time (at nominal voltage)		Max. 10ms
Release time (at nominal voltage)		Max. 5ms
Temperature rise (at nomi. Volt)		Max. 60°C
Shock resistance	Functional	98m/s ² (10g)
	Destructive	980m/s ² (100g)
Vibration resistance		1.5 mm DA, 10 to 55Hz
Ambient temperature		-40°C~+85°C
Humidity		35 % to 85% R.H.
Termination		1C : PCB
		1A : PCB & QC
Unit weight		Approx. 8g
Construction		Sealed & Flux proof

► COIL DATA

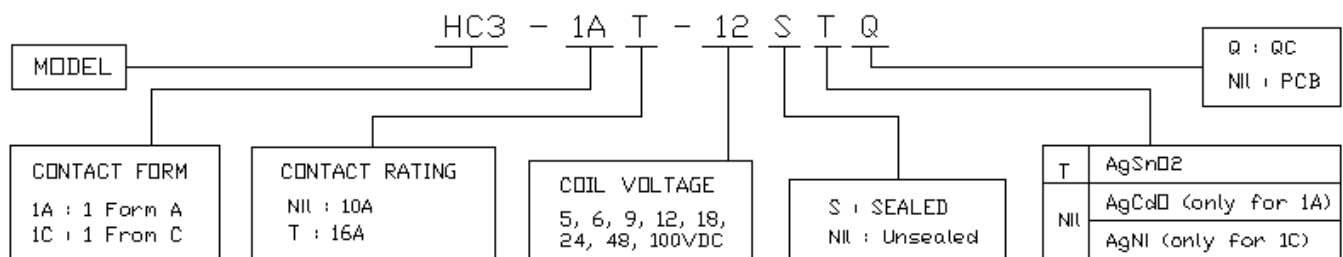
1 Form C Type

Normal Voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Coil resistance (Ω)	allowable Voltage VDC(Max.)
5	4.0	0.5	$62.5 \pm 10\%$	6.5
6	4.8	0.6	$90 \pm 10\%$	7.8
9	7.2	0.9	$202.5 \pm 10\%$	11.7
12	9.6	1.2	$360 \pm 10\%$	15.6
18	14.4	1.8	$810 \pm 10\%$	23.4
24	19.2	2.4	$1440 \pm 10\%$	31.2
48	38.4	4.8	$5760 \pm 10\%$	62.4

1 Form A Type

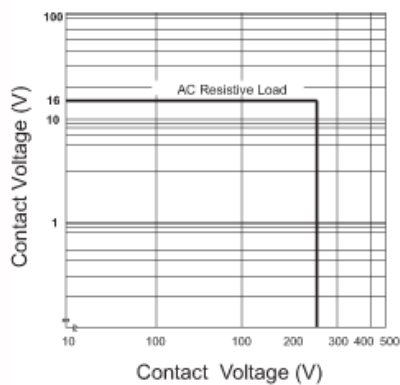
Normal Voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Coil resistance (Ω)	allowable Voltage VDC(Max.)
5	4.0	0.5	$125 \pm 10\%$	7.5
6	4.8	0.6	$180 \pm 10\%$	9
9	7.2	0.9	$405 \pm 10\%$	13.5
12	9.6	1.2	$720 \pm 10\%$	18
18	14.4	1.8	$1620 \pm 10\%$	27
24	19.2	2.4	$2880 \pm 10\%$	36
48	38.4	4.8	$11520 \pm 10\%$	72

► ORDERING INFORMATION

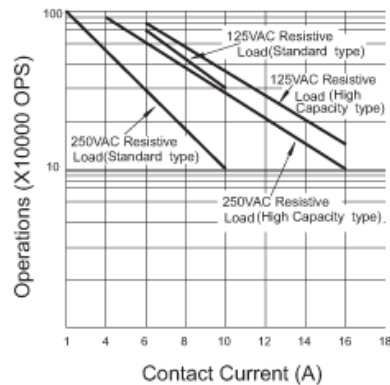


► CHARACTERISTICS CURVE

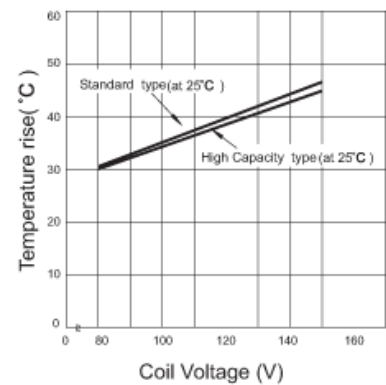
MAXIMUM SWITCHING POWER



LIFE CURVE



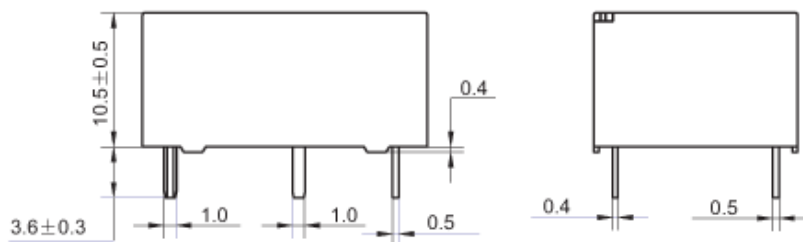
COIL TEMPERATURE RISE



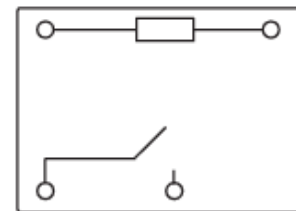
► DIMENSIONS (UNIT: MM)

1 Form A (PCB)

Outline Dimensions

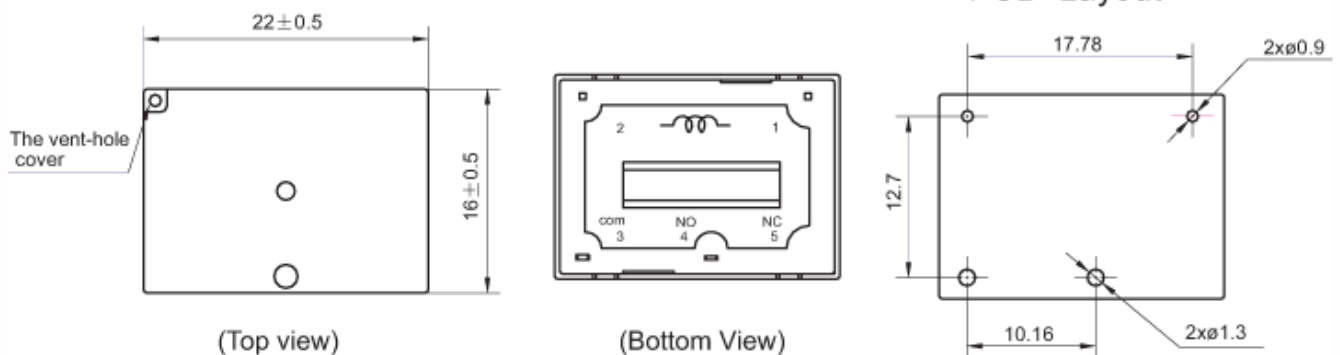


Wiring Diagram



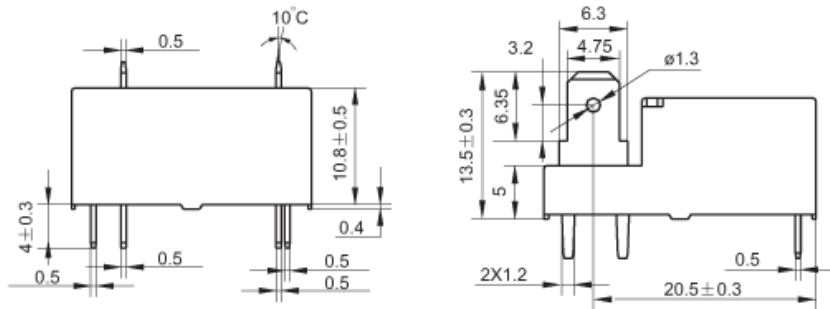
(Bottom View)

PCB Layout

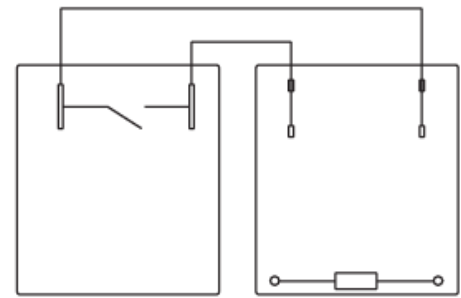


1 Form A (QC)

Outline Dimensions

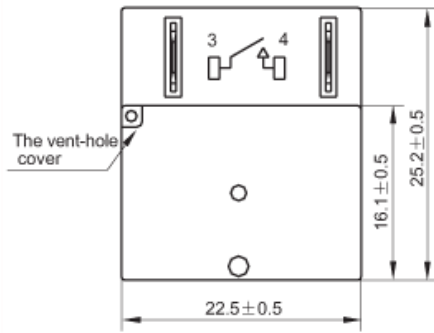


Wiring Diagram

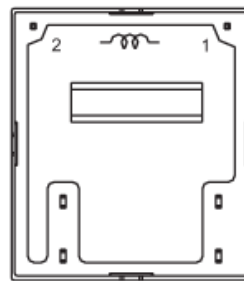


(Bottom View)

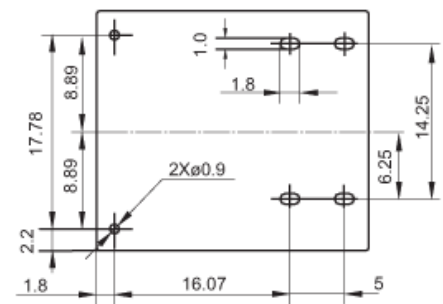
PCB Layout



(Top view)

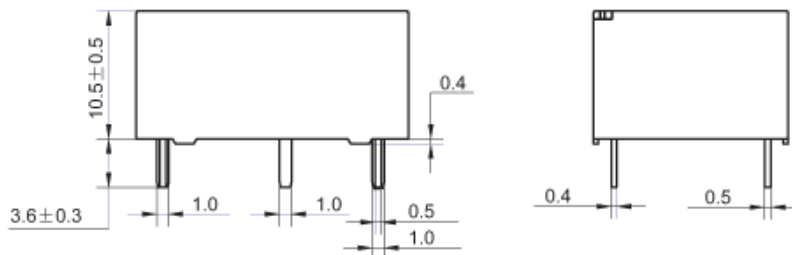


(Bottom View)

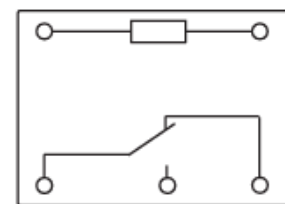


1 Form C (PCB)

Outline Dimensions

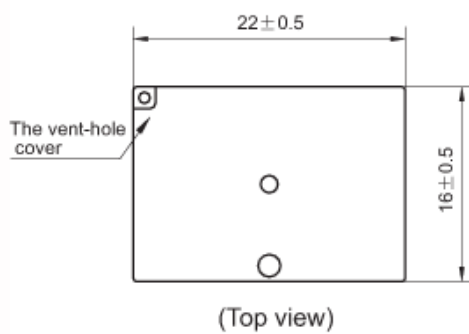


Wiring Diagram

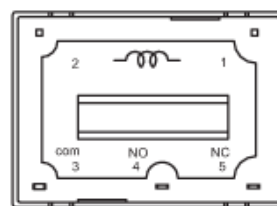


(Bottom View)

PCB Layout



(Top view)



(Bottom View)

