CTA14

CIT RELAY & SWITCH
A Division of Circuit Interruption Technology, Inc.

FEATURES:

- Large switching capacity up to 80A
- Ideal for high inrush applications
- quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

32.6 x 34.6 x 34.0 mm

CONTACT DATA

Contact Arrangement	1A = SPST N.O. 1C = SPDT
Contact Rating	1A: 100A @ 12VDC; 50A @ 24VDC 1C: N.O. 100A @ 12VDC; 50A @ 24VDC N.C. 70A @ 12VDC; 35A @ 24VDC
Contact Resistance	< 30 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	1200W
Maximum Switching Voltage	75VDC
Maximum Switching Current	100A

COIL DATA

Coil Voltage VDC		Coil Resistance Ω ± 10%	Pick Up Voltage VDC (max) 75% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max.						
12	15.6	50	8.4	1.2	2.9	10	5
24	31.2	195	16.8	2.4			

CAUTION:

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

GENERAL DATA

Electrical Life @ rated load Mechanical Life	100K cycles, typical 10M cycles, typical
Insulation Resistance	100MΩ min @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	2500V rms min. @ sea level 1500V rms min. @ sea level
Shock Resistance	$147 m/s^2$ for 11ms
Vibration Resistance	1.5mm double amplitude 10-40Hz
Terminal (Copper Alloy) Strength	30N
Operating Temperature Storage Temperature	-40 °C to + 85 °C -40 °C to + 155 °C
Solderability	230 °C ± 2 °C for 10 ± 0.5s
Weight	60g

CIT RELAY & SWITCH
A Division of Circuit Interruption Technology, Inc.

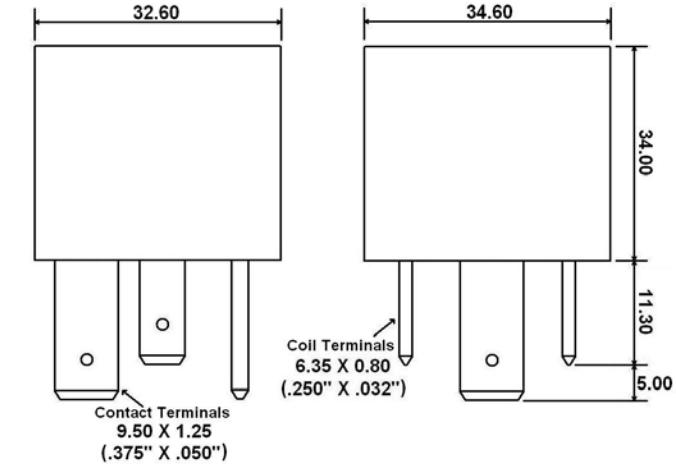
CTA14

ORDERING INFORMATION

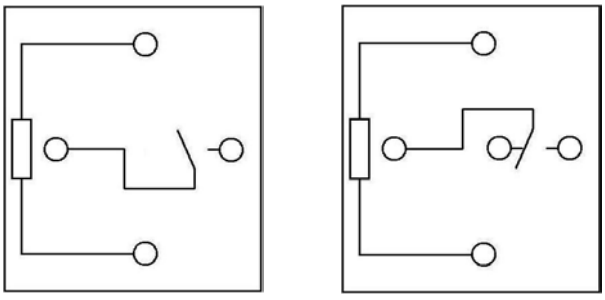
1. Series:	CTA14	1C	C	Q	12VDC
CTA14					
2.Contact Arrangement:					
1A = SPST N.O.					
1C = SPDT					
3. Sealing Options:					
C = Dust Cover					
4. Termination Options:					
Q = Quick Connect					
5. Coil Voltage:					
12VDC					
24VDC					

6: Coil Suppression:
Blank = Standard
D = Diode (1N4005)
R = Resistor (680 Ohms)
2D = 2 diodes (1N4005)
DR = Diode & Resistor (1N4005 & 680 Ohms)
** Consult factory if other values are needed.

DIMENSIONS



SCHEMATICS (BOTTOM VIEWS)



1A 1C