

Distributor: Electro-Stock www.electrostock.com Tel: 630-682-1542 Fax: 630-682-1562

FEATURES:

- Large switching capacity up to 40A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing







26.0 x 26.0 x 24.5 (39.5) mm

CONTACT DATA

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Contact Arrangement	1A = SPST N.O.				
	1B = SPST N.C.				
	1C = SPDT				
	1U = SPST N.O. (2 terminals)				
Contact Rating	1A: 40A @ 14VDC				
_	1B: 30A @ 14VDC				
	1C: 40A @ 14VDC N.O. and 30A @ 14VDC N.C.				
	1U: 2x20A @ 14VDC				
Contact Resistance	< 30 milliohms initial				
Contact Material	AgSnO ₂				
Maximum Switching Power	630W				
Maximum Switching Voltage	75VDC				
Maximum Switching Current	40A				

COIL DATA

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	Coil Voltage		Coil Resistance		Pick Up Voltage	Release Voltage	Coil Power	Operate Time	Release Time	
VDC		$\Omega\pm10\%$		VDC (max)	VDC (min)	W	ms	ms		
	Rated	Max.	1.6W	1.9W	75% of rated voltage	10% of rated voltage				
	6	7.8	22.5	19	4.2	0.6				
	12	15.6	90	75.8	8.4	1.2	1.6 or 1.9	7	5	
	24	31.2	360	303.2	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.
- 3. When testing, coil terminals should be connected if coil transient suppression is installed in relay.

GENERAL DATA

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100MΩ min @ 500VDC
Dielectric Strength, Coil to Contact	750V rms min. @ sea level
Contact to Contact	500V rms min. @ sea level
Shock Resistance	147m/s ² for 11ms
Vibration Resistance	1.5mm double amplitude 10-40Hz
Terminal (Copper Alloy) Strength	8N (Quick Connect), 4N (PCB Pins)
Operating Temperature	-40 °C to + 85 °C
Storage Temperature	-40 °C to + 155 °C
Solderability	230 °C ± 2 °C for 10 ± 0.5s
Weight	31g

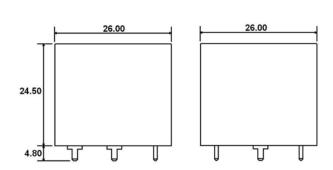


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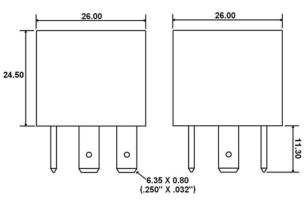
ORDERING INFORMATION

ONDERING INI ONNA	_						
1. Series:	CTA2	1C	S	Q	12	1.6	Z
CTA2 standard							
CTA2F with mounting flange							
CTA2M with metal bracket							
2.Contact Arrangement:							
1A = SPST N.O.							
1B = SPST N.C.							
1C = SPDT							
1U = SPST N.O. (2 terminals)							
3. Sealing Options:							
S = Sealed							
C = Dust Cover							
4. Termination:							
P = PCB Pins							
Q = Quick Connect							
5. Coil Voltage:							
6VDC							
12VDC							
24VDC							
6. Coil Power:							
1.6 = 1.6W							
1.9 = 1.9W							
7: Coil Suppression:							
Blank = Standard							
D = Diode (1N4005) Cathode on 6	'86" terminal						
D1 = Diode (1N4004) Cathode on		al					
R = Resistor (680 Ohms)							
2D = 2 diodes (1N4005)							
DR = Diode & Resistor Cathode o	n "86" Termir	nal					
(1N4005 & 680 Ohms)							
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** Consult factory if other values are r	needed.						
8. Contact Material:							
$Z = AgSnO_2$							

DIMENSIONS - CTA2 (Units = mm)





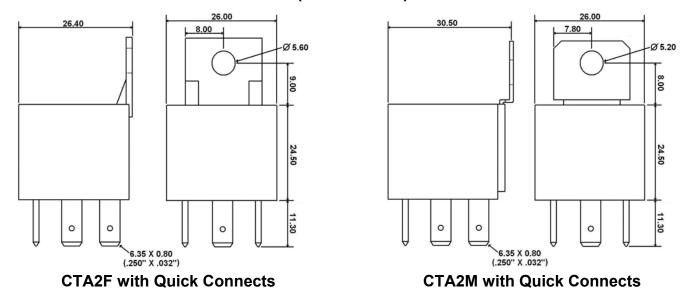


CTA2 with Quick Connects



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DIMENSIONS – CTA3F & CTA2M (Units = mm)



SCHEMATICS, PC PIN DIMENSIONS, & PC LAYOUTS (BOTTOM VIEWS)

