# CTA7

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

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

**FEATURES:**

- Switching capacity up to 20A
- Small size and light weight
- PCB pin mounting available
- Withstands high temperature: 105°C operating temperature
- Narrow width for high density placement

36.5 x 15.7 x 16.5mm

## CONTACT DATA

| | |
|---|---|
| Contact Arrangement | H = 2 X 1C (H-bridge) |
| Contact Rating | 20A @ 14VDC |
| Contact Resistance | < 50 milliohms initial |
| Contact Material | $AgSnO_2$ |
| Maximum Switching Power | 140W |
| Maximum Switching Voltage | 24VDC |
| Maximum Switching Current | 10A |

## COIL DATA

| Coil Voltage VDC | | Coil Resistance $\Omega \pm 10\%$ | | 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. | .64W | .93W | | | | | |
| 12 | 14.4 | 225 | 155 | 9.00 | 1.2 | 0.64 or 0.93 | 10 | 5 |

**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.
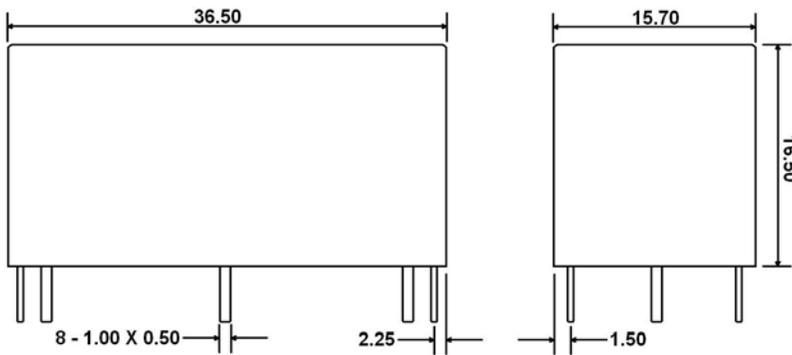
## GENERAL DATA

| | |
|---|---|
| Electrical Life @ rated load | 100K cycles, typical |
| Mechanical Life | 10M cycles, typical |
| Insulation Resistance | 100M$\Omega$ min @ 500VDC |
| Dielectric Strength, Coil to Contact | 1000V rms min. @ sea level |
| Contact to Contact | 1000V rms min. @ sea level |
| Shock Resistance | 200m/s$^2$ for 11ms |
| Vibration Resistance | 1.27mm double amplitude 10-40Hz |
| Terminal (Copper Alloy) Strength | 10N |
| Operating Temperature | -40 °C to + 105 °C |
| Storage Temperature | -40 °C to + 155 °C |
| Solderability | 230 °C $\pm$ 2 °C for 10 $\pm$ 0.5s |
| Weight | 25g |

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## ORDERING INFORMATION

| | CTA7 | H | S | 12 | .93 |
|---|---|---|---|---|---|
| **1. Series:**<br>CTA7 | | | | | |
| **2.Contact Arrangement:**<br>H = 2 X 1C (H-bridge) | | | | | |
| **3. Sealing Options:**<br>S = Sealed<br>C = Dust Cover | | | | | |
| **4. Coil Voltage:**<br>12VDC | | | | | |
| **5. Coil Power:**<br>.64 = 0.64W<br>.93 = 0.93W | | | | | |

## DIMENSIONS (Units = mm)



## SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)