

Distributor: [Electro-Stock www.electrostock.com](http://www.electrostock.com) Tel: 630-682-1542 Fax: 630-682-1562

FEATURES:

- Low coil power consumption
- Small size and light weight
- Switching current up to 20A
- Suitable for household appliances, automotive applications
- Dual relay available



16.9 x 14.5 (29.7) x 19.5 mm

CONTACT DATA

| | | |
|---------------------------|--|---|
| Contact Arrangement | 1A & 1U = SPST N.O. 1C & 1W = SPDT | 2A & 2U = (2) SPST N.O. 2C & 2W = (2) SPDT |
| Contact Ratings | 1A, 1C, 2A, & 2C: 10A @ 120VAC, 28VDC; 20A @ 14VDC 1U, 1W, 2U, & 2W: 2x10A @ 120VAC, 28VDC; 2x20A @ 14VDC | |
| Contact Resistance | < 30 milliohms initial | |
| Contact Material | AgSnO ₂ | |
| Maximum Switching Power | 1A & 1C = 280W; 1U & 1W = 2x280W | |
| Maximum Switching Voltage | 380VAC, 75VDC | |
| Maximum Switching Current | 20A | |

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. | | | | | | |
| 3 | 3.9 | 9 | 2.25 | 0.3 | 1.0 | 10 | 5 |
| 5 | 6.5 | 25 | 3.75 | 0.5 | | | |
| 6 | 7.8 | 36 | 4.50 | 0.6 | | | |
| 9 | 11.7 | 85 | 6.75 | 0.9 | | | |
| 12 | 15.6 | 145 | 9.00 | 1.2 | | | |
| 18 | 23.4 | 342 | 13.50 | 1.8 | | | |
| 24 | 31.2 | 576 | 18.00 | 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

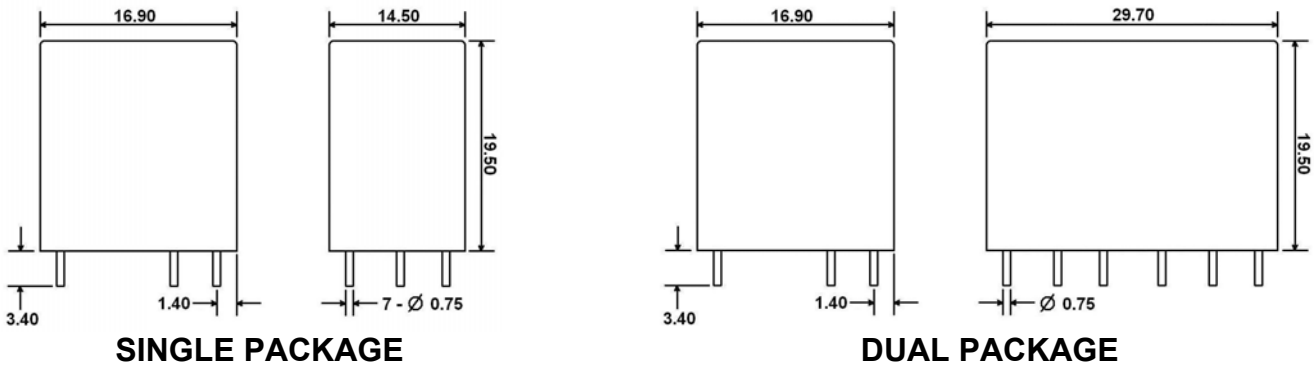
| | |
|--------------------------------------|---------------------------------|
| Electrical Life @ rated load | 100K cycles, typical |
| Mechanical Life | 10M cycles, typical |
| Insulation Resistance | 100MΩ min @ 500VDC |
| Dielectric Strength, Coil to Contact | 1500V rms min. @ sea level |
| Contact to Contact | 750V rms min. @ sea level |
| Shock Resistance | 100m/s ² for 11ms |
| Vibration Resistance | 1.27mm double amplitude 10-40Hz |
| Terminal (Copper Alloy) Strength | 10N |
| Operating Temperature | -40 °C to + 85 °C |
| Storage Temperature | -40 °C to + 155 °C |
| Solderability | 230 °C ± 2 °C for 10 ± 0.5s |
| Weight | 12g & 24g |

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ORDERING INFORMATION

| | | | | |
|--------------------------------|------|----|---|-------|
| 1. Series: | CTA4 | 1C | S | 12VDC |
| CTA4 | | | | |
| 2. Contact Arrangement: | | | | |
| 1A = SPST N.O. | | | | |
| 1C = SPDT | | | | |
| 1U = SPST N.O. | | | | |
| 1W = SPDT | | | | |
| 2A = (2) SPST N.O. | | | | |
| 2C = (2) SPDT | | | | |
| 2U = (2) SPST N.O. | | | | |
| 2W = (2) SPDT | | | | |
| 3. Sealing Options: | | | | |
| S = Sealed | | | | |
| C = Dust Cover | | | | |
| 4. Coil Voltage: | | | | |
| 3VDC | | | | |
| 5VDC | | | | |
| 6VDC | | | | |
| 9VDC | | | | |
| 12VDC | | | | |
| 18VDC | | | | |
| 24VDC | | | | |

DIMENSIONS (Units = mm)



SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)

