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# Electromechanical Relays

Hasco Component's electromechanical relays range from less than an amp to 80 amps. Hasco's relays are UL and CSA with some TUV ratings. All relays have DC coils and many have an AC coil. They come sealed for wave soldering and washing thereby allowing the relays to be put on any assemble line. There are surface mount low current relays available as well.

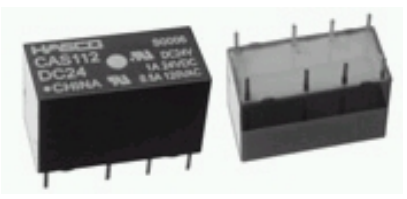
## DPDT— DIP PC STANDARD OR SENSITIVE 2.0 AMP BIFURCATED CONTACT RELAY

### FEATURES

- Sensitive available.
- Fully sealed.

**File E75887**

**File LR49291**




### COIL RATINGS FOR STANDARD CAS 112

| Relay Code (V) | Contact Arrange - ment | Nom. Volt. (VDC) | Coil Resist. (Ohms +/-10%) | Nom. Curr. (mA) | Pick-Up Volt. (VDC) | Drop-Out Volt. (V) | Max. Volt. (VDC) | Nom. Pwr (W) Cons'p-tion |
|---|---|---|---|---|---|---|---|---|
| CAS-112-5 | DPDT (2 Form C) | 5 | 45 | 111.0 | 3.8 | 0.25 | 7.8 | Approx. 0.55 |
| CAS-112-6 | | 6 | 70 | 90.9 | 4.5 | 0.3 | 9.7 | |
| CAS-112-9 | | 9 | 160 | 85.7 | 6.75 | 0.45 | 13.5 | |
| CAS-112-12 | | 12 | 280 | 43.1 | 9.0 | 0.6 | 19.4 | |
| CAS-112-24 | | 24 | 1070 | 22.4 | 18.0 | 1.2 | 37.6 | |
| CAS-112-48 | | 48 | 4300 | 11.1 | 36.0 | 2.4 | 74.2 | |

Data Measured at 20°C

### COIL RATINGS FOR SENSITIVE CS 212

| Relay Code (V) | Contact Arrange - ment | Nom. Volt. (VDC) | Coil Resist. (Ohms +/-10%) | Nom. Curr. (mA) | Pick-Up Volt. (VDC) | Drop-Out Volt. (V) | Max. Volt. (VDC) | Nom. Pwr (W) Cons'p-tion |
|---|---|---|---|---|---|---|---|---|
| CS-212-3 | DPDt (2 Form C) | 3 | 69 | 43.4 | 2.25 | 0.24 | 9.0 | 0.13 |
| CS-212-5 | | 5 | 167 | 29.9 | 3.8 | 0.4 | 15.0 | 0.15 |
| CS-212-6 | | 6 | 240 | 25.0 | 4.5 | 0.48 | 18.0 | 0.15 |
| CS-212-9 | | 9 | 540 | 16.7 | 6.8 | 0.72 | 27.0 | 0.15 |
| CS-212-12 | | 12 | 960 | 12.5 | 9.0 | 0.96 | 35.6 | 0.15 |
| CS-212-18 | | 18 | 2160 | 8.3 | 13.5 | 1.44 | 53.4 | 0.15 |
| CS-212-24 | | 24 | 3840 | 6.3 | 18.0 | 1.92 | 70.1 | 0.15 |
| CS-212-48 | | 48 | 7680 | 6.5 | 36.0 | 3.84 | 76.8 | 0.30 |

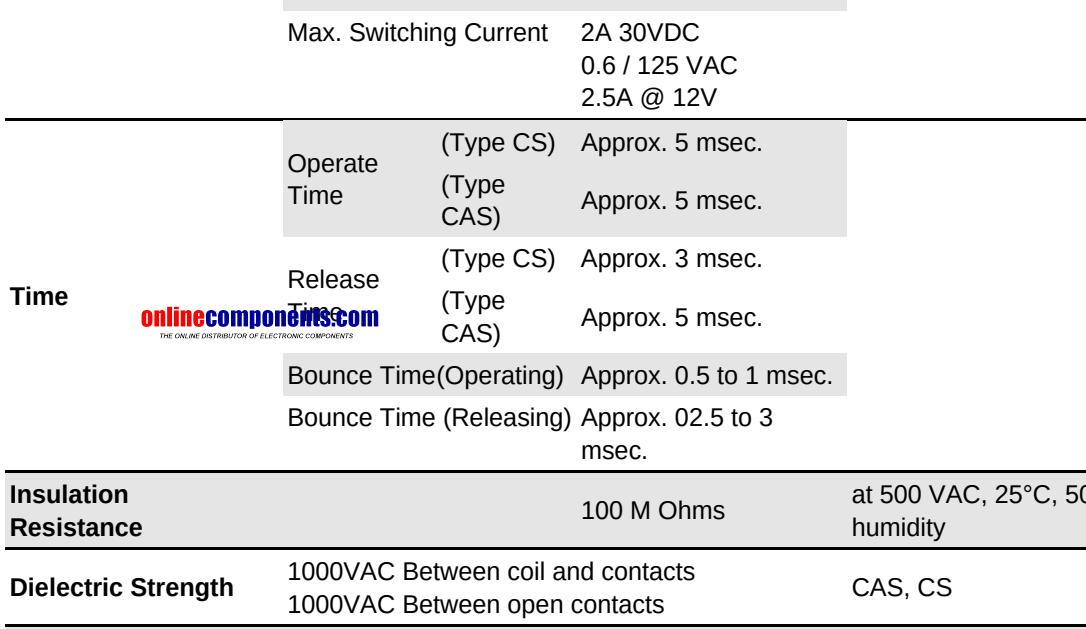
The tolerance is ±10% for the resistance value, pull-in voltage and drop-out voltage. The values are at ambient temperature, 20°C.

### RATING PERFORMANCE

| | Specifications | | Note |
|---|---|---|---|
| **Contact** | Contact Arrangement | DPDT, 2 Form C | |
| | Contact Material | Gold-clad, Ag-Pd alloy | |
| | Contact | Max. 100 mOhms | at initial value |
| | Max. Switching Power | DC 30W<br>AC 50 VA | |
| | Max. Switching Voltage | 125VDC<br>150VAC | at resistive load |
| | Max. Switching Current | 2A 30VDC<br>0.6 / 125 VAC<br>2.5A @ 12V | |
| **Time** | Operate Time (Type CS) | Approx. 5 msec. | |
| | Operate Time (Type CAS) | Approx. 5 msec. | |
| | Release Time (Type CS) | Approx. 3 msec. | |
| | Release Time (Type CAS) | Approx. 5 msec. | |
| | Bounce Time(Operating) | Approx. 0.5 to 1 msec. | |
| | Bounce Time (Releasing) | Approx. 02.5 to 3 msec. | |
| **Insulation Resistance** | | 100 M Ohms | at 500 VAC, 25°C, 50% relative humidity |
| **Dielectric Strength** | 1000VAC Between coil and contacts<br>1000VAC Between open contacts | | CAS, CS |
| **FCC Surge Strength** | 1500V Between coil and contacts<br>Between Adjacent contacts | | CS |
| **Vibration Resistance** | | 10g (10 - 55 Hz) | |
| **Temperature** | | -25°C ~ +75°C<br>-25°C ~ +85°C | CAS, CS |
| **Life** | Mechanical Life | $2 \times 10^7$ times | |
| | Electrical Life | $2 \times 10^6$ times | at 20mV 1KHz 1mA resistive load |
| **Weight** | | 5 g | |

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### DIMENSIONS




### PART NUMBERS

| | |
|---|---|
| CAS112DC5 | CS212DC6 |
| CAS112DC6 | CS212DC9 |
| CAS112DC9 | CS212DC12 |
| CAS112DC12 | CS212DC24 |
| CAS112DC24 | CS212DC48 |
| CAS112DC48 | CS212DC48B |
| CS212DC5 | |

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Electromechanical Relay- DPDT Relay DPDT 2 Amp Relay

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