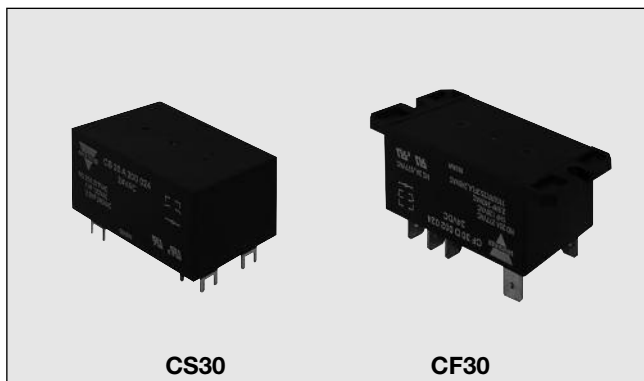


# Power Relays Type CS30/CF30 Monostable



- Compressor control relay
- Switching capacity 30A
- DC coils 6 to 48VDC
- AC coils 24 to 277VAC
- 2 normally open contacts, 2 change over contacts
- Reinforced insulation 4kV / 8mm (0.31")
- Meets class F construction
- PCB or Fast-on terminal
- General purpose, power loads
- Standard as sealed
- CE, UL approved

## Product Description

Relay high power output. vending machines, and It is sealed designed for compressors load.

## Approvals



The approvals stated are not generally applicable to all relay versions of a particular type.

## Ordering Key

**C S30 A 002 12**

Type \_\_\_\_\_  
Terminal version \_\_\_\_\_  
(S30= Soldering - F30= Fast-on)  
Coil version (A=AC - D=DC) \_\_\_\_\_  
Contact code \_\_\_\_\_  
Coil code \_\_\_\_\_

Box content: 20 relays  
Box size: (W 290 x D 240 x H 40) mm Weight: 2.000g  
(W 11.42 x D 9.45 x H 1.57) inches Weight: 70.55oz

## Type Selection

### Contact configuration

|                         |                   |
|-------------------------|-------------------|
| 2 normally open contact | (DPST {2-form A}) |
| 2 change over contact   | (DPDT {2-form C}) |

### Contact rating

|     |     |
|-----|-----|
| 30A | 200 |
| 30A | 002 |

### Contact code

## Coil Characteristics, DC @ +20°C (+68°F)

| Coil Code | Rated voltage VDC | Pick-up voltage VDC | Drop-out voltage VDC | Max. Allowable voltage DC | Coil resistance $\Omega \pm 10\%$ |
|-----------|-------------------|---------------------|----------------------|---------------------------|-----------------------------------|
| 5         | 5                 | 3.8                 | 0.5                  | 5.5                       | 15.3                              |
| 6         | 6                 | 4.5                 | 0.6                  | 6.6                       | 22                                |
| 12        | 12                | 9.0                 | 1.2                  | 13.2                      | 86                                |
| 24        | 24                | 18.0                | 2.4                  | 26.4                      | 350                               |
| 48        | 48                | 36.0                | 4.8                  | 52.8                      | 1390                              |
| 110       | 110               | 83                  | 11                   | 121                       | 7255                              |

## Coil Characteristics, AC @ +20°C (+68°F) 50/60Hz

| Coil Code         | Rated voltage VAC | Pick-up voltage VAC | Drop-out voltage VAC | Max. Allowable voltage AC | Coil resistance $\Omega \pm 10\%$ |
|-------------------|-------------------|---------------------|----------------------|---------------------------|-----------------------------------|
| 24                | 24                | 19.2                | 4.8                  | 26.4                      | 39                                |
| 120               | 120               | 96.0                | 24.0                 | 132.0                     | 950                               |
| 208B <sup>1</sup> | 208               | 166.4               | 41.6                 | 228.8                     | 2841                              |
| 220 <sup>2</sup>  | 220               | 175                 | 44.0                 | 242.0                     | 3800                              |
| 240               | 240               | 192.0               | 48.0                 | 264.0                     | 3800                              |
| 277               | 277               | 211.6               | 55.4                 | 304.7                     | 5485                              |

<sup>1</sup> Only 60Hz  
<sup>2</sup> Only 50Hz

## Contact Characteristics

|                            | 200 (NO)                                                     | 002 (NO) (NC)                                                      |
|----------------------------|--------------------------------------------------------------|--------------------------------------------------------------------|
| UL rating                  | 30A - 277VAC<br>2.5HP - 240VAC<br>1HP - 120VAC<br>TV 10      | 30A - 277VAC<br>2.5HP - 240VAC<br>1HP - 120VAC<br>110LRA / 25.3FLA |
| VDE rating                 | 30A - 250VAC                                                 | 30A - 250VAC                                                       |
| Contact rating             | 30A - 277VAC                                                 | 30A - 277VAC                                                       |
| Material                   | AgSnO <sub>2</sub>                                           | AgSnO <sub>2</sub>                                                 |
| Initial contact resistance | 50m $\Omega$ max. (1A-6VDC)                                  | 50m $\Omega$ max. (1A-6VDC)                                        |
| Current                    | 30A<br>8.310VA                                               | 30A<br>8.310VA                                                     |
| Voltage                    | 30VDC / 277VAC                                               | 30VDC / 277VAC                                                     |
| Life                       | 1 x 10 <sup>5</sup> ops/min.<br>5 x 10 <sup>6</sup> ops/min. | 1 x 10 <sup>5</sup> ops/min.<br>5 x 10 <sup>6</sup> ops/min.       |

## Insulation

### Test voltage (1 min.)

Open contacts  
Contacts/coil  
Contact/poles

**4000Vrms**  
**1500Vrms**  
**2000Vrms**

### Surge voltage

Contacts/coil

**10000VAC**

**Initial insulation resistance**  
@ 500VDC

**1000MΩ**

## General Data

### Nominal coil power

**AC version 4VA**  
**DC version 1.7W**

### Operate time at nom. voltage

**15ms**

### Release time at nom. voltage

**10ms**

### Ambient temperature

AC **-40° to +65°C (-40° to +149°F)**  
DC **-55° to +85°C (-67° to +185°F)**

### Vibration resistance

**1.65mm (0.06") p.p. 10 to 55Hz**

### Temperature rise

AC

**85°C (+185°F) max.**

DC

**60°C (+140°F) max.**

### Shock resist.

Malfunction  
Mechanical

**100m/s<sup>2</sup>**  
**1000m/s<sup>2</sup>**

### Humidity

**35% to 85%, +40°C**

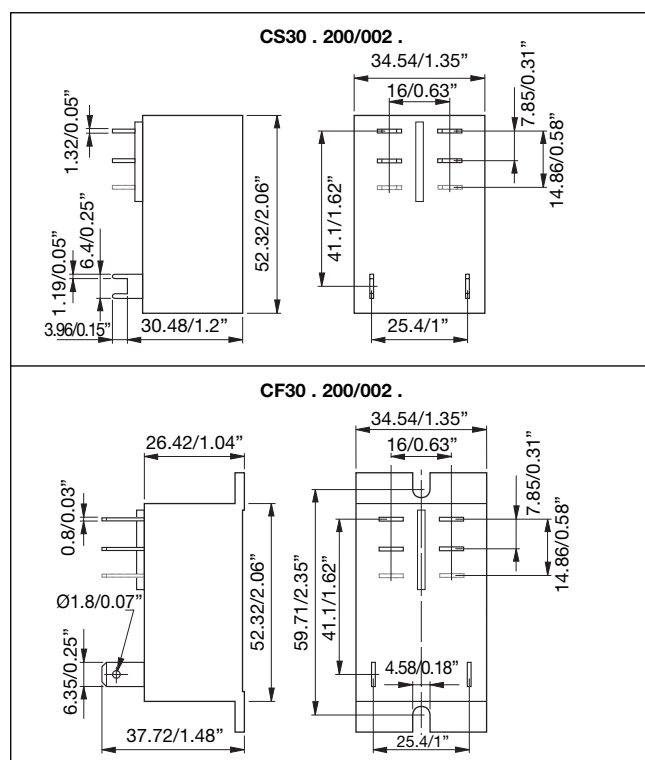
### Weight

**~86g (~3.03oz)**

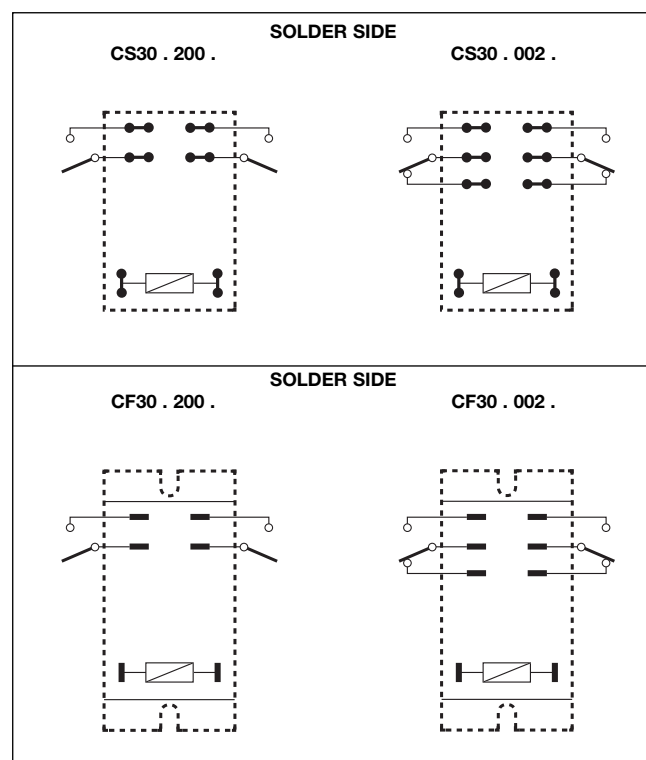
### Enclosure

**IP 67 Sealed**

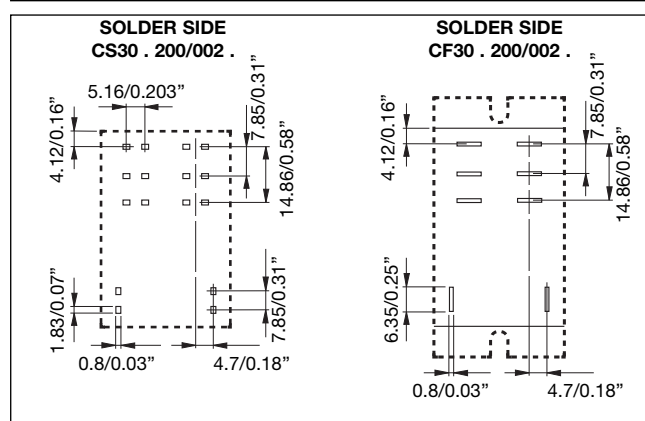
## Dimensions mm/inches



## Wiring Diagram

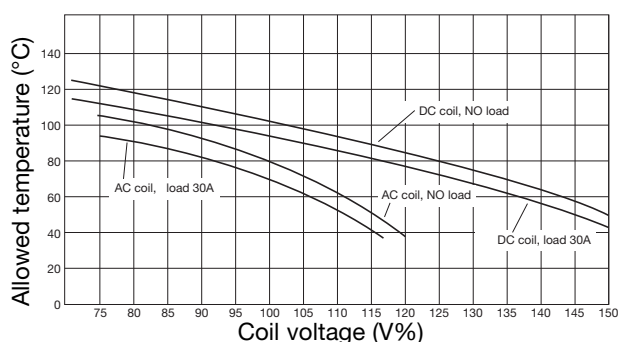


## Pin View mm/inches



## Diagram

### 1 Ambient temperature



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