





E197851

18.4 x 15.0 x 10.3 mm

< 50 milliohms initial

## **Features**

- High sensitivity
- Super light weight
- Switching current up to 12A
- PC board mounting

## **Contact Data**

| Contact Arrangement | 1A = SPST N.O.                             | Contact Resistance        |
|---------------------|--|---------------------------|
| Contact Rating      | 10A @ 277VAC, General Purpose, 100k cycles | Contact Material          |
|                     | 10A @ 30VDC, General Purpose, 100k cycles  | Maximum Switching Power   |
|                     | 12A @ 125VAC, Resistive, 100k cycles       | Maximum Switching Voltage |
|                     |  |                           |

| Contact Material          | AgSnO <sub>2</sub> |  |
|---------------------------|--------------------|--|
| Maximum Switching Power   | 300W               |  |
| Maximum Switching Voltage | 300VAC, 100VDC     |  |
| Maximum Switching Current | 12A                |  |

## Coil Data

| Coil Voltage |      | Coil                    | Pick Up Voltage      | Release Voltage      | Coil Power | Operate Time | Release Time |
|--------------|------|-------------------------|----------------------|----------------------|------------|--------------|--------------|
| VI           | OC   | Resistance<br>Ω +/- 10% | VDC (max)            | VDC (min)            | W          | ms           | ms           |
|              |      | 12 17 10 70             | 75% of rated voltage | 10% of rated voltage |            |              |              |
| Rated        | Max  |                         |                      |                      |            |              |              |
| 12           | 15.6 | 320                     | 9.00                 | 1.2                  | .45        | 8            | 5            |

## General Data

| EL (: 11:6 0 ( 11 1                  | 40016                           |  |
|--------------------------------------|---------------------------------|--|
| Electrical Life @ rated load         | 100K cycles, typical            |  |
| Mechanical Life                      | 10M cycles, typical             |  |
| Insulation Resistance                | 100M Ω min. @ 500VDC            |  |
| Dielectric Strength, Coil to Contact | 2500V rms min. @ sea level      |  |
| Contact to Contact                   | 1000V rms min. @ sea level      |  |
| Shock Resistance                     | 100m/s <sup>2</sup> for 11 ms   |  |
| Vibration Resistance                 | 1.50mm double amplitude 10~40Hz |  |
| Terminal (Copper Alloy) Strength     | 5N                              |  |
| Operating Temperature                | -40°C to +85°C                  |  |
| Storage Temperature                  | -40°C to +155°C                 |  |
| Solderability                        | 260°C for 5 s                   |  |
| Weight                               | 7g                              |  |

#### Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

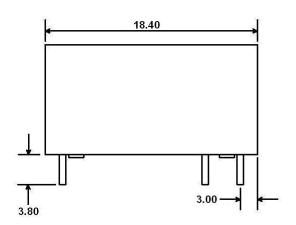


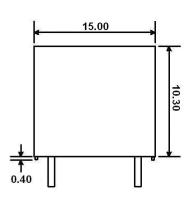
## **Ordering Information**

| 1. Series                                | J099 | 1A | S | 12VDC | .45 |
|--|------|----|---|-------|-----|
| J099                                     |      |    |   |       |     |
| 2. Contact Arrangement<br>1A = SPST N.O. |      |    |   |       |     |
| 3. Sealing Options<br>S = Sealed         |      |    |   |       |     |
| 4. Coil Voltage<br>12VDC                 |      |    |   |       |     |
| 5. Coil Power<br>.45 = .45W              |      |    |   |       |     |

## **Dimensions**

Units = mm





# Schematics & PC Layouts

**Bottom Views** 

