

K10 series

15 Amp General Purpose Miniature Relay

 File E22575

 File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- K10 - DPDT contact arrangement standard.
- AC and DC coils.
- Mounting options include socket, PCB, top flange.
- UL Class B coil insulation system.

Contact Data @ 25°C

Materials: Silver-cadmium oxide.

Expected Life: 10 million operations, mechanical; 100,000 operations minimum at rated loads.

Contact Ratings

| Contact Code | Material | UL/CSA Ratings | Type |
|--------------|----------------------|---|-------------------------------------|
| 5 | Silver-cadmium oxide | 15A @ 30VDC 15A @ 120VAC 10A @ 277VAC 1/3HP @ 120VAC 1/2HP @ 250VAC | Resistive Resistive Resistive |

Initial Dielectric Strength

Between Open Contacts: 1,000V rms.

Between Adjacent Contacts: 1,500V rms.

Between Contacts and Coil: 1,500V rms.

Coil Data @ 25°C

Nominal Power:

DC Coils: .9 Watts.

AC Coils: 1.2VA.

Maximum Power: 2.0 Watts.

Duty Cycle: Continuous.

Insulation: Class B: (130°C).

Coil Data

| Nominal Voltage | DC Coils | | AC Coils | |
|-----------------|--------------------------|------------------------------|--------------------------|------------------------------|
| | Resistance in Ohms ± 10% | Nominal Current in Milliamps | Resistance in Ohms ± 15% | Nominal Current in Milliamps |
| 6 | 40 | 150 | 10.5 | 200 |
| 12 | 160 | 75 | 43 | 100 |
| 24 | 650 | 37 | 160 | 52 |
| 48 | 2,600 | 18.5 | 668 | 26 |
| 110 | 11,000 | 10 | — | — |
| 120* | — | — | 3,900 | 11 |
| 240* | — | — | 12,000 | 6 |

*For 220/240VDC operation, use 11,000 Ohm, 5 Watt dropping resistor in series with the 110VDC coil.

Operate Data @ 25°C

Must Operate Voltage:

DC Coils: 75% of nominal voltage.

AC Coils: 85% of nominal voltage.

Operate Time (Excluding Bounce): 13 milliseconds, typical, at nominal voltage.

Release Time (Excluding Bounce): 6 milliseconds, typical, at nominal voltage.

Environmental Data

Temperature Range:

Storage: -60°C to +105°C.

Operating: -45°C to +70°C.

Mechanical Data

Mounting: Socket mount, printed circuit board, top flange.

Termination: .187" (4.75mm) quick connect/solder terminals, or printed circuit terminals.

Enclosure: Smoke-color polycarbonate dust cover.

Weight: 1.8 oz. (51g) approximately.

Ordering Information

Typical Part No. ▶

K10

P

-11

D

1

5

-6

1. Basic Series:

K10 = 15 amp miniature relay.

2. Cover:

P = Polycarbonate (smoke color).

3. Contact Arrangement:

11 = 2 Form C (DPDT)

4. Coil Input:

A = 50/60 Hz. AC D = DC

5. Mounting & Termination:

1 = Socket mount; .187" (4.75mm) quick connect/solder terminals.

5 = Printed circuit terminals; .160" length.

T = Mounting bracket on end of cover; .187" (4.75mm) quick connect/solder terminals.

6. Contact Type:

5 = 15 amp silver-cadmium oxide

7. Coil Voltage:

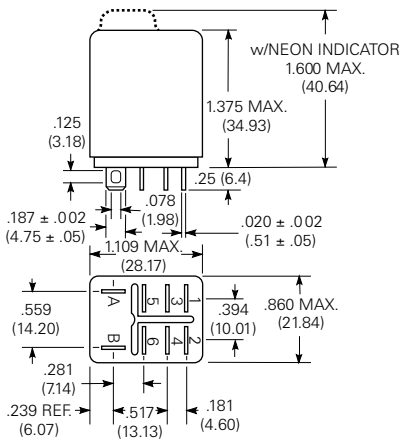
To 240VAC or 110VDC, see coil data table.

Our authorized distributors are more likely to stock the following items for immediate delivery.

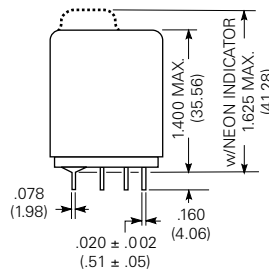
| | | |
|----------------|----------------|----------------|
| K10P-11A15-6 | K10P-11D15-6 | K10P-11D55-24 |
| K10P-11A15-12 | K10P-11D15-12 | K10P-11D55-110 |
| K10P-11A15-24 | K10P-11D15-24 | K10P-11DT5-12 |
| K10P-11A15-120 | K10P-11D15-110 | K10P-11DT5-24 |
| K10P-11AT5-120 | K10P-11D55-12 | |

Outline Dimensions

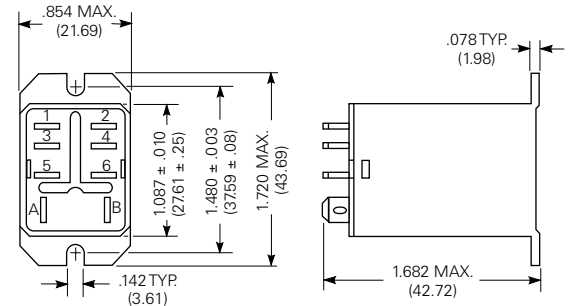
**Mounting Code 1
Socket Mount**



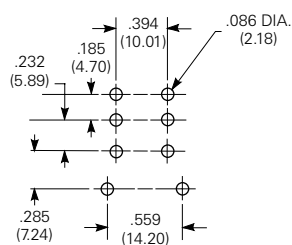
**Mounting Code 5
Printed Circuit Terminals**



Mounting Code T



PC Board Layout



Wiring Diagram

