

### **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**

<b>Contact Code</b>	Material	UL/CSA Ratings	Туре
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).

# 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.

### **Coil Data**

	DC Coils		AC Coils	
Nominal Voltage	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

<sup>\*</sup>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**

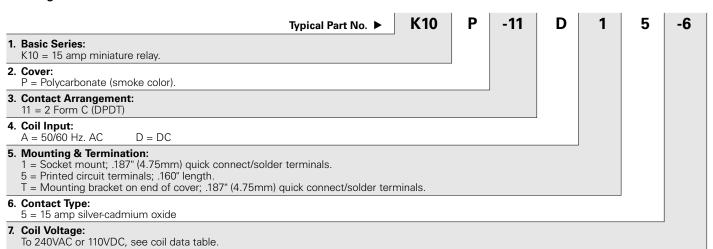
**Mounting:** Socket mount, printed circuit board, top flange. **Termination:** .187" (4.75mm) quick connect/solder terminals, or

printed circuit terminals.

Enclosure: Smoke-color polycarbonate dust cover.

Weight: 1.8 oz. (51g) approximately.

### **Ordering Information**

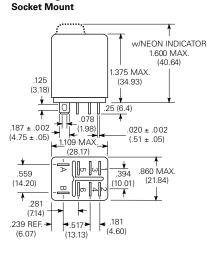


### Our authorized distributors are more likely to stock the following items for immediate delivery.

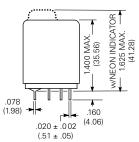
K10P-11A15-6	K10P-11D15-6	K10P-11D55-24
K10P-11A15-12	K10P-11D15-12	K10P-11D55-110
K10P-11A15-24	K10P-11D15-24	K10P-11DT5-12
K10P-11A15-120	K10P-11D15-110	K10P-11DT5-24
K10P-11AT5-120	K10P-11D55-12	

### **Outline Dimensions**

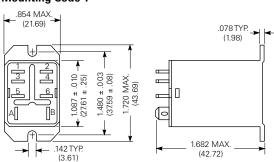
## Mounting Code 1



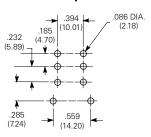
# Mounting Code 5 Printed Circuit Terminals



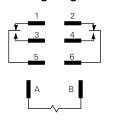
### Mounting Code T



### **PC Board Layout**



### Wiring Diagram

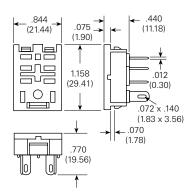


### Electronics

#### Sockets and Accessories for K10 Relays

Sockets for K10 series relays are rated 10 amps, and are UL recongnized, File E59244, and CSA certified, File LR15734.

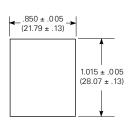
### 27F488 **Pierced Solder Terminals**



### 20C217 **Hold Down Spring For** 27E488 & 27E489



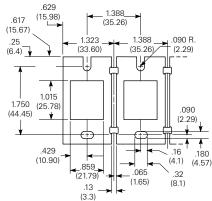
### **Chassis Cutout For** Mounting 27E488 Socket



Recommended chassis thickness .039" (.99mm) to .079" (2.01mm)

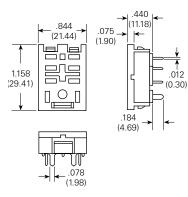
Socket punch Greenlee part 5015115.0, Type 731R available from Greenlee Tool Co., Rockford, Illinois.

### 37D633 **Mounting Strip**

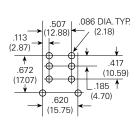


37D633 will mount eight 27E488 sockets in one length of aluminum strip measuring 10.97" x 2.25" x .062". (278.64 x 57.15 x 1.57)

### 27E489 **Printed Circuit Terminals**



### P.C. Board Layout For Socket

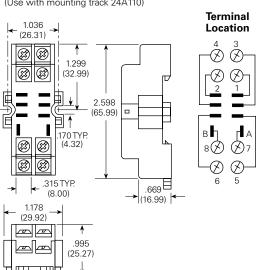


Note: P.C. terminal socket will also fit P.C. board layout for relay. However, in order to accomplish this, terminals must be formed accordingly.

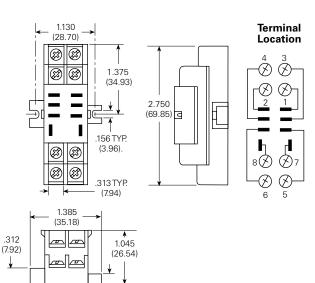
Caution: Printed circuit sockets are manufactured with "floating" (loose) terminals. This permits them to align with holes in the circuit board and with the relay terminals. During the mounting and soldering of the socket, vertical float should be eliminated and the terminals seated on the board. (This may be accomplished by inserting a dummy relay in the socket.) Failure to eliminate float may cause fracture of the solder joint or separation of the copper conductor from the printed circuit board when a relay is inserted in the socket after soldering.

# Screw Terminals, DIN Rail Snap-Mount

(Use with mounting track 24A110)



### 27E487 **Screw Terminals**



20C426 **Hold Down Spring** For 27E487 & 27E895