



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 1/3HP @ 120VAC 1/2HP @ 250VAC	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

Coil Data

Oon 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			

*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 $+105^{\circ}\text{C}$. Operating: -45°C to $+70^{\circ}\text{C}$.

Mechanical Data

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

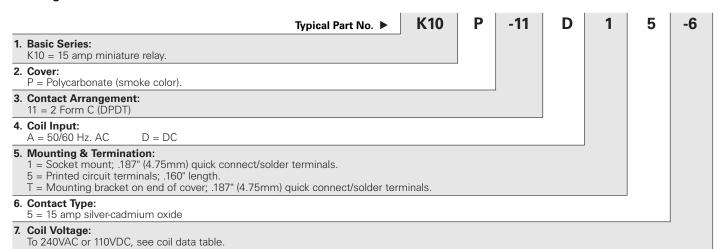
printed circuit terminals.

Enclosure: Smoke-color polycarbonate dust cover.

Weight: 1.8 oz. (51g) approximately.



Ordering Information



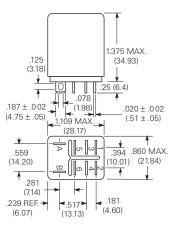
Stock Items - The following items are normally maintained in stock for immediate delivery.

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
V10D 11 ATE 100	V10D 11 DEE 10	

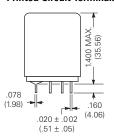
K10P-11AT5-120 K10P-11D55-12

Outline Dimensions

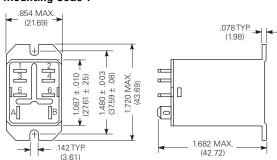
Mounting Code 1 Socket Mount



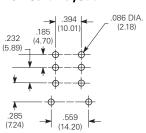
Mounting Code 5 Printed Circuit Terminals



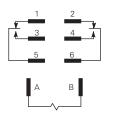
Mounting Code T



PC Board Layout

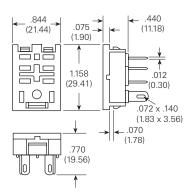


Wiring Diagram



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

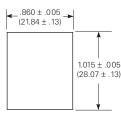
27F488 **Pierced Solder Terminals**



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



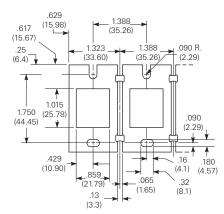
Chassis Cutout For Mounting 27E488 Socket



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

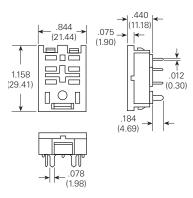
Socket punch Greenlee part 5015115.0, Type 731R available from Greenlee Tool Co., Rockford, Illinois.

37D633 **Mounting Strip**

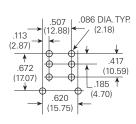


37D633 will mount eight 27E488 sockets in one length of aluminum strip measuring 10.97" x 2.25" x .062". (278.64 x 57.15 x 1.57)

27E489 **Printed Circuit Terminals**



P.C. Board Layout For Socket

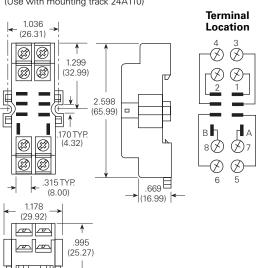


Note: P.C. terminal socket will also fit P.C. board layout for relay. However, in order to accomplish this, terminals must be formed accordingly.

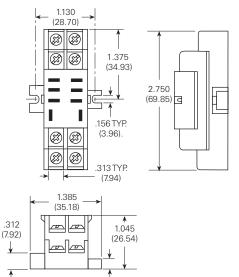
Caution: Printed circuit sockets are manufactured with "floating" (loose) terminals. This permits them to align with holes in the circuit board and with the relay terminals. During the mounting and soldering of the socket, vertical float should be eliminated and the terminals seated on the board. (This 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

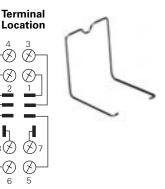
(Use with mounting track 24A110)



27E487 **Screw Terminals**



20C297 **Hold Down Spring** For 27E487



Tyco Electronics 700 Westpark Drive Peachtree City, GA 30269-1498 8 (3) **(/**)7

> (\mathcal{F}) Ø

6