

## 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 @ $\mathbf{2 5}^{\circ} \mathrm{C}$

Materials: Silver-cadmium oxide.
Expected Life: 10 million operations, mechanical; 100,000 operations minimum at rated loads.

## Contact Ratings

| Contact Code | Material | ULCSA Ratings | Type |
| :---: | :---: | :---: | :---: |
| $\mathbf{5}$ | Silver-cadmium | 15 A @ 30VDC | Resistive |
|  | oxide | 15 A @ 120VAC | Resistive |
|  |  | 10 A @ 277VAC | Resistive |
|  |  | $1 / 3 \mathrm{HP}$ @ 120VAC |  |
|  |  | $1 / 2 \mathrm{HP}$ @ 250VAC |  |

## Initial Dielectric Strength

Between Open Contacts: 1,000V rms.
Between Adjacent Contacts: $1,500 \mathrm{~V}$ rms.
Between Contacts and Coil: $1,500 \mathrm{~V}$ rms.

## Coil Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$

## Nominal Power:

DC Coils: . 9 Watts.
AC Coils: 1.2VA.
Maximum Power: 2.0 Watts.
Duty Cycle: Continuous.
Insulation: Class B: $\left(130^{\circ} \mathrm{C}\right)$.

## K10 series

## 15 Amp General Purpose Miniature Relay

9] File E22575
(18) 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 <br> Voltage | Resistance <br> in Ohms <br> $\mathbf{\pm 1 0 \%}$ | Nominal <br> Current in <br> Milliamps | Resistance <br> in Ohms <br> $\mathbf{\pm 1 5 \%}$ | Nominal <br> Current in <br> 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 | $3, \overline{900}$ | -11 |
| $120^{*}$ | - | - | 12,000 | 6 |
| $240^{*}$ | - | - |  |  |

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

## Operate Data @ $25^{\circ} \mathrm{C}$

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: $-60^{\circ} \mathrm{C}$ to $+105^{\circ} \mathrm{C}$.
Operating: $-45^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$.

## Mechanical Data

Mounting: Socket mount, printed circuit board, top flange.
Termination: . 187 " ( 4.75 mm ) quick connect/solder terminals, or printed circuit terminals.
Enclosure: Smoke-color polycarbonate dust cover.
Weight: 1.8 oz . ( 51 g ) 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
Socket Mount


Mounting Code 5 Printed Circuit Terminals


Mounting Code T


## PC Board Layout



## 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.

27E488
Pierced Solder Terminals

$20 C 217$
Hold Down
Spring For
27E488 \& 27E489


## Chassis Cutout For 37D633 <br> Mounting 27E488 Mounting Strip <br> \section*{Socket}



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

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

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


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

27E895
Screw Terminals, DIN Rail Snap-Mount


27E487
Screw Terminals

## $20 C 426$

Hold Down Spring For 27E487 \& 27E895

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.

27E489
Printed Circuit Terminals


P.C. Board Layout For Socket


