Features

• AC and DC coils.

• K10 - DPDT contact arrangement standard.

• UL Class B coil insulation system.

Contact Data @ 25°C

Contact Ratings

5

Materials: Silver-cadmium oxide.

Mounting options include socket, PCB, top flange.

Expected Life: 10 million operations, mechanical; 100,000

Material

Silver-cadmium

oxide

operations minimum at rated loads.



K10 series

15 Amp General Purpose Miniature Relay

<i>H</i> 1	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	

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

Type

Resistive

Resistive

Resistive

UL/CSA Ratings

15A @ 30VDC

15A @ 120VAC

10A @ 277VAC

1/3HP @ 120VAC

1/2HP @ 250VAC

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.

Initial Dielectric Strength

Between Open Contacts: 1,000V rms. Between Adjacent Contacts: 1,500V rms. Between Contacts and Coil: 1,500V rms.

Environmental Data

Temperature Range:

Storage: -60°C to +105°C. **Operating:** -45°C to +70°C.

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).

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.

Specifications and availability subject to change.

tyco	Catalog 1308242						
Electronics						P&B	
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 5 = Printed circuit terminals; .160" length T = Mounting bracket on end of cover; .1					-		
6. Contact Type: 5 = 15 amp silver-cadmium oxide							
7. Coil Voltage: To 240VAC or 110VDC, see coil data tabl	е.						

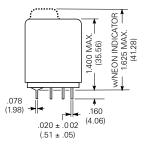
Our authorized distributors are more likely to stock the following items for immediate delivery.

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	

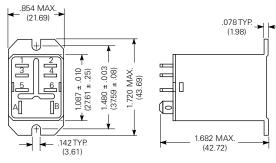
Outline Dimensions

Mounting Code 1 Socket Mount w/NEON INDICATOR 1.600 MAX. (40.64) 1.375 MAX. .125 (34.93) (3.18) ¥ L.109 MAX. (1.98) ↓ 1.109 MAX. .25 (6.4) 7 .187 ± .002 .020 ± .002 (.51 ± .05) (4.75 ± .05) (28.17) ¥ .394 σ ω .860 MAX. .559 (14.20) (21.84) (10.01) A ŧ .281 (7.14) .239 REF. → .181 **≺**.517**≻** (13.13) (4.60) (6.07)

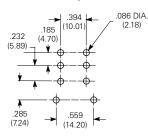
Mounting Code 5 Printed Circuit Terminals



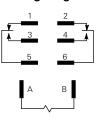
Mounting Code T



PC Board Layout



Wiring Diagram



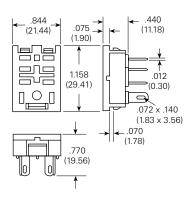
Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.

Sockets and Accessories for K10 Relays

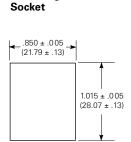
Sockets for K10 series relays are rated 10 amps, and are UL recongnized, File E59244, and CSA certified, File LR15734.





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





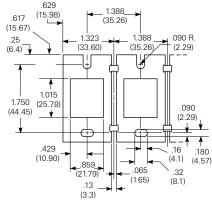
Chassis Cutout For

Mounting 27E488

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

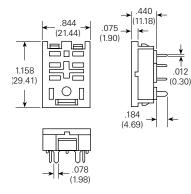
Socket punch Greenlee part 5015115.0, Type 731R available from Greenlee Tool Co., Rockford, Illinois.

37D633 **Mounting Strip**

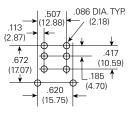


37D633 will mount eight 27E488 sockets in one length of aluminum strip mea-suring 10.97" x 2.25" x .062". (278.64 x 57.15 x 1.57)

27E489 **Printed Circuit Terminals**



P.C. Board Layout For Socket

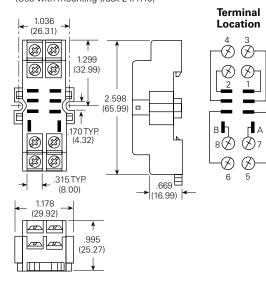


Note: P.C. terminal socket will also fit P.C. board layout for relay. However, in order to accomplish this, terminals must be formed accordingly.

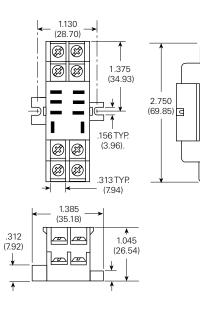
Caution: Printed circuit sockets are manufactured with "floating" (loose) terminals. This permits them to align with holes in the circuit board and with the relay terminals. During the mounting and soldering of the socket, vertical float should be eliminated and the terminals seated on the board. (This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

27E895

Screw Terminals, DIN Rail Snap-Mount (Use with mounting track 24A110)



27E487 Screw Terminals



20C426 Hold Down Spring For 27E487 & 27E895

Terminal Location ŀ

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