imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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KUP93 series

General Purpose 3 to 10 Amp, Multicontact AC or DC 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

	Nominal Voltage DC Resistance in Ohms ± 10%*		Resistance in Ohms	Must Operate Voltage	Nominal Coil Current (mA)	
DC Coi	-	12 24	120 472	9.0 18.0	100 51	
AC Coi		24 120 240	72 1,700 7,200	20.4 102.0 204.0	115 24 12	

*AC coils, ± 15%

Features

Contact Data @ 25°C

Contact arrangement to 3PDT.
Sockets available for all models.
Accepted pin pattern for HVAC industry.
Primarily designed for the HVAC industry.

Material: Fine silver or silver-cadmium oxide.

• AC coils 24, 120 & 240V 50/60 Hz.; DC 12 & 24VDC.

Contact rating

Material	UL/CSA Ratings	Life Expected	
Fine silver	5A @ 28VDC or 240VAC, 80% PF, 1/10 HP @ 120VAC, 1/4 HP @ 240VAC	100,000	
Silver cadmiun	10A @ 28VDC or 240VAC, 80% PF, 1/4 HP @ 120VAC, 1/3 HP @ 240 VAC	100,000	
oxide	10 FLA, 30 LRA @ 120 VAC, 5 FLA, 15 LRA @ 240 VAC	30,000	

Operate Data @ 25°C

Must Operate Voltage:

DC Coils: 75% of nominal voltage or less. AC Coils: 85% of nominal voltage or less. Operate Time (Excluding Bounce): 15 milliseconds, typical,

at nominal voltage.

Release Time (Excluding Bounce):

DC Coils: 10 milliseconds, typical, at nominal voltage. **AC Coils:** 10 milliseconds, typical, at nominal voltage.

Environmental Data

Temperature Range: Storage: All Coils: -45°C to +105°C.

Operating: DC Coils: -45°C to +70°C. **AC Coils:** -45°C to +45°C.

Initial Dielectric Strength

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

Coil Data @ 25°C

Nominal Power: DC Coils: 1.2 Watts. AC Coils: 2.7VA. Initial Insulation Resistance: 100 megohms, min., at 25°C.r

Dimensions are shown for reference purposes only.N

Dimensions are in inches over (millimeters) unless otherwise specified.

Mechanical Data

Catalog 1308242 Issued 11-15						
Ordering Information						_
Typical Part No. > 1. Type: KUP93 = Enclosed general purpose relay.	KUP93	14	Α	2	1	-24
2. Contact Arrangement: 14 = 3 Form C (3PDT)						
3. Coil Input: $A = AC$ $D = DC$ 4. Mounting: 1 = PLAIN CASE;						
 5. Terminals, Contact Material & Rating: 1 = .187" (4.75mm) quick connect, silver, 5 amps. 3 = .187" (4.75mm) quick connect, silver-cadmium oxide, 10 amps. 						

6. Coil Voltage:

To 240VAC, 50/60 Hz. or 110VDC.

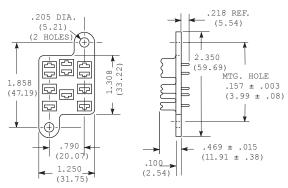
Our authorized distributors are more likely to stock the following items for immediate delivery. No items in this series typically are stocked.o

Outline Dimensions

Wiring Diagrams 3 Form C



KUP93 Sockets



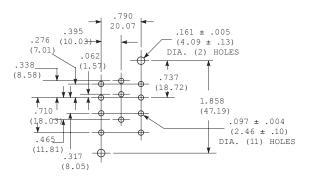
KUP93 Socket Number

Socket	P C Socket With			
Color	Terminals			
Natural Nylon	27E168**			

**UL Recognized, file E22575

Socket: Rated 10 amperes. Will accept .187" (4.75mm) quick-connect terminals of all KUP93 relays. »

Socket PC Board Layout (Component Side of Board)



Dimensions are shown for 732 reference purposes only.N