

Features

• AC coils 6-277VAC 50/60 Hz., DC 6-110VDC.

- Contact arrangement up to DPDT.
- .250" combination push-on/solder terminals or PC terminals.
- Side flange and top flange mounting.
- Designed to meet VDE space requirements.
- Class B coil insulation.

Contact Data @ 25°C

Arrangements: 1 Form C (SPDT) and 2 Form C (DPDT). Material: Silver or silver-cadmium oxide. Expected Mechanical Life: 10 million operations.

Contact Ratings

Contact Arrangement	UL/CSA Ratings	Expected Life
1 Form C Single Pole Double Throw	30A 120/240VAC 1 HP @ 120VAC, 1 1/2 HP @ 240VAC 25A @ 28VDC	100,000 ops.
2 Form C Double Pole Double Throw	20A @ 120/240VAC 3/4 HP @ 120VAC 1 1/2 HP @ 240VAC 20A @ 28VDC 7A @ 120VAC (Tungsten)*	100,000 ops.

*NO contacts only.

Initial Dielectric Strength

Between Open Contacts: 1,200V rms. Between Adjacent Contacts: 3,750V rms. Between Contacts and Coil: 3,750V rms. Between Coil and Frame: 2,000V rms.

Coil Data @ 25°C

Voltage: 6-110VDC and 6-277VAC. Nominal Power: DC Coils: 1.2 Watts. AC Coils: 2.7VA. Duty Cycle: Continuous. Initial Insulation Resistance: 100 megohms, min. Insulation: Class B, 130°C.

Ordering Information

	Typical Part No. ► KUHP- 11	A	5	1	-120
1. Basic Series and Type: KUHP = Enclosed 20/30 amp relay.					
2. Contact Arrangement and Rating:					
5 = 1C (SPDT); 30 amps. 11 = 2C (DPDT); 20 amps.					
3. Coil Input:					
A = AC, 50/60 Hz. $D = DC$					
4. Mountings:					
1 = PLAIN CASE 5 = BRACKET MOUNT CASE	T = TOP FLANGE CASE				
5. Terminals and Contact Materials:					
1 = .250" (6.35mm) quick connect/solder; silver-cadmium oxide.	7 = .047" (1.19mm) printed circuit; silver-cadmium oxide	e.			
6. Coil Voltage:					
AC coils to 277VAC, 50/60 Hz. DC coils to 110VDC.					

NOTE: No sockets are available for this relay.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery. KUHP-5A51-24 KUHP-5D51-24 KUHP-11A51-120 KUHP-5AT1-120 KUHP-5DT1-24 KUHP-11DT1-12 KUHP-11D51-12 KUHP-11AT1-120 KUHP-5DT1-12 KUHP-11A51-24 KUHP-5A51-120 KUHP-5D51-12 KUHP-11D51-24 KUHP-11DT1-24

Dimensions are shown for reference purposes only.

(millimeters) unless otherwise specified.

Specifications and availability subject to change.

www.tvcoelectronics.com Technical support: 803 Refer to inside back cover.

KUHP series

30 Amp Power Relays

A File E22575

(File LR15734-123

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%*	Must Operate Voltage	Nominal Coil Current (mA)
DC Coils	6 12 24 48 110	32.1 120 472 1,800 10,000	4.5 9.0 18.0 36.0 82.5	187 100 51 26.7 11
AC Coils	6 12 24 120 240 240 277	4.2 18 72 1,700 7,200 10,250	5.1 10.2 20.4 102.0 204.0 235.5	460 230 115 24 12 9

*±15% for AC coils.

Operate Data @ 25°C

Must Operate Voltage:

DC Coils: 75% of nominal.

AC Coils: 85% of nominal

Operate Time (Excluding Bounce): 20 milliseconds, typical, at nominal voltage. Release Time (Excluding Bounce): 20 milliseconds, typical, at nominal voltage.

Environmental Data

Temperature Range: (Operating) DC Coils: -45°C to +70°C. **AC Coils:** -45°C to +45°C. Shock: 15g's, 11 ms (non-operating).

Mechanical Data

Termination: .250" quick connect/solder; and PC board. Enclosure: Polycarbonate dust cover. Weight: 3.2 oz. (92g) approximately.

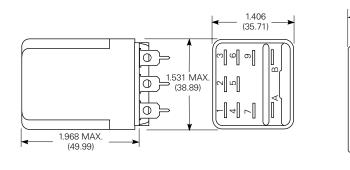
Vibration: .065" double amplitude, 10-55 Hz.

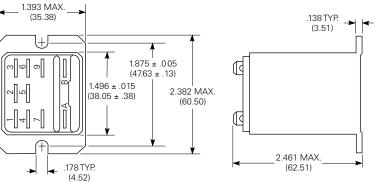
Dimensions are in inches over

Outline Dimensions

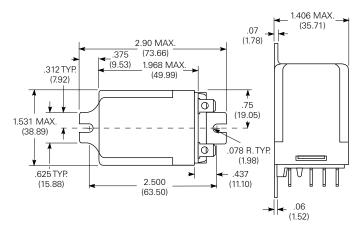
Plain Case

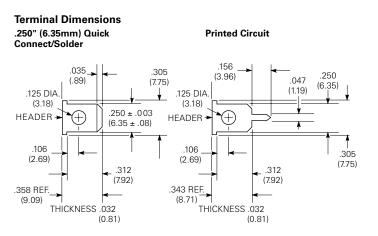
Top Flange Enclosure





Bracket Mount Case





Wiring Diagrams

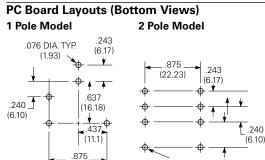
1 Form C 1 Form A (Delete 2)

1 Form B (Delete 5)



2 Form A (Delete 1 & 3) 2 Form B (Delete 4 & 6)

2 Form C



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.076 DIA. TYP. .397 (10.08) (1.93)

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