

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.

KUHP series

30 Amp Power Relays

FII 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 24 120 240 277	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).
Vibration: .065" double amplitude, 10-55 Hz.

Mechanical Data

Termination: .250" quick connect/solder; and PC board.

Enclosure: Polycarbonate dust cover. **Weight:** 3.2 oz. (92g) approximately.

Ordering Information

		Typical Part No.	KUHP-	11	Α	5	1	-1
1. Basic Series and Typ KUHP = Enclosed 20			_					
2. Contact Arrangeme 5 = 1C (SPDT); 30 am								
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 Cont 1 = .250" (6.35mm) g	act Materials: uick connect/solder; silver-cadmium oxide.	7 = .047" (1.19mm) printed c	ircuit; silver-ca	dmium oxi	de.			
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.

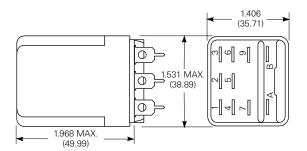
KUHP-5A51-24 KUHP-5AT1-120 KUHP-5D51-24 KUHP-5DT1-24 KUHP-11A51-120 KUHP-11D51-12 KUHP-11DT1-12 KUHP-5A51-120 KUHP-5D51-12 KUHP-5DT1-12 KUHP-11A51-24 KUHP-11AT1-120 KUHP-11D51-24 KUHP-11DT1-24

Catalog 1308242 Issued 3-03

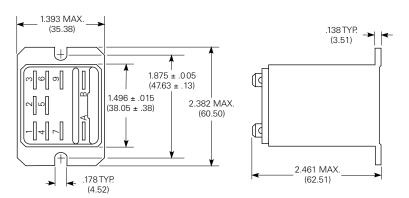
P&B

Outline Dimensions

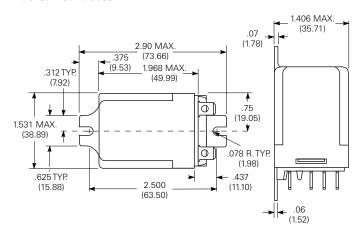
Plain Case



Top Flange Enclosure



Bracket Mount Case



Terminal Dimensions .250" (6.35mm) Quick **Printed Circuit** Connect/Solder .156 .035_ 305 .250 (3.96)(.89)(7.75) .047 (6.35) .125 DIA (1.19).125 DIA. (3.18)(3.18) $.250 \pm .003$ HEADER : HEADER $(6.35 \pm .08)$.106 .106 .305 (2.69)(2.69) (7.75).312 .312 (7.92) (7.92) .358 REF. .343 REF (9.09)(8.71)

Wiring Diagrams

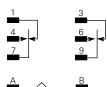
- 1 Form C
- 1 Form A (Delete 2)
- 1 Form B (Delete 5)

2 Form C

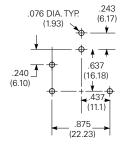
2 Form A (Delete 1 & 3)

2 Form B (Delete 4 & 6)





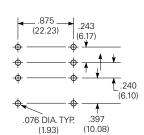
PC Board Layouts (Bottom Views)



1 Pole Model

THICKNESS .032

(0.81)



2 Pole Model

THICKNESS .032

(0.81)

804