tyco Catalog 1308242 P&B Issued 3-03



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.

Features

• 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

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

• 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

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	-120
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 ci	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.

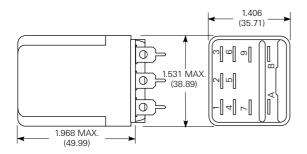
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

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

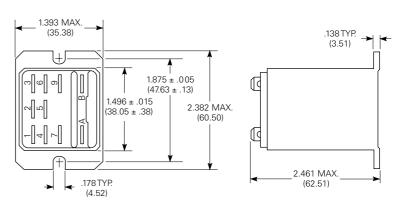
Catalog 1308242 Issued 3-03 tyco P&B

Outline Dimensions

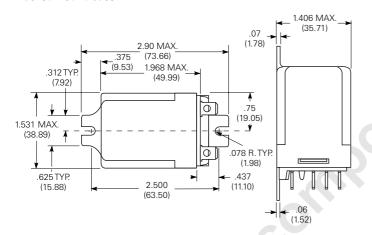
Plain Case



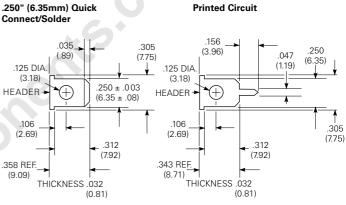
Top Flange Enclosure



Bracket Mount Case



Terminal Dimensions .250" (6.35mm) Quick



.243

.397

(10.08)

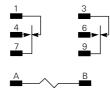
.240 (6.10)

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

PC Board Layouts (Bottom Views) 1 Pole Model 2 Pole Model

.243 .076 DIA. TYP. (6.17) (1.93) .875 (22.23).637 .240 (16.18) (6.10) 437 .875 .076 DIA. TYP. (22.23) (1.93)