



KUHP series

30 Amp Power Relays

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.

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.

Coil Data

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

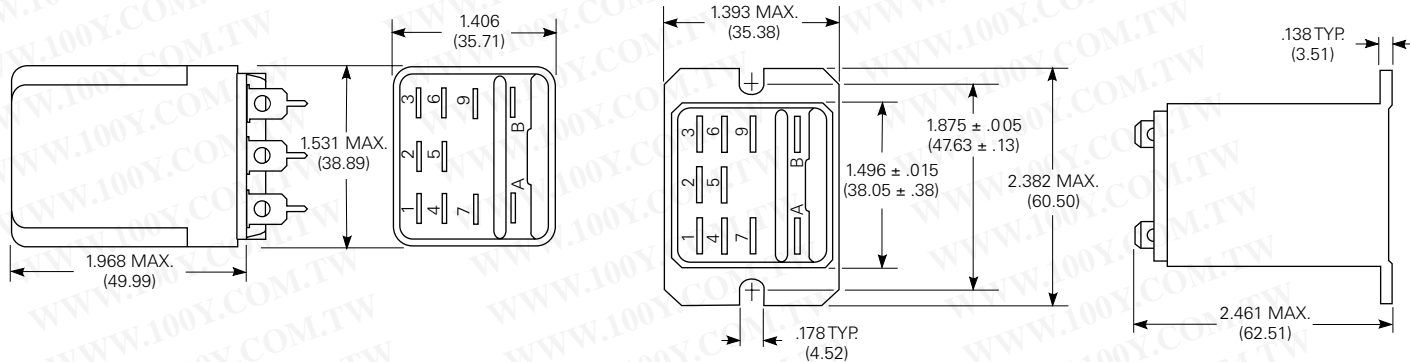
Typical Part No. ►		KUHP-	11	A	5	1	-120
1. Basic Series and Type: KUHP = Enclosed 20/30 amp relay.							
2. Contact Arrangement and Rating: 5 = 1C (SPDT); 30 amps. 11 = 2C (DPDT); 20 amps.							
3. Coil Input: A = AC, 50/60 Hz. D = DC							
4. Mountings: 1 = PLAIN CASE 5 = BRACKET MOUNT CASE T = TOP 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.							
6. Coil Voltage: AC coils to 277VAC, 50/60 Hz. DC coils to 110VDC.							

NOTE: No sockets are available for this relay.

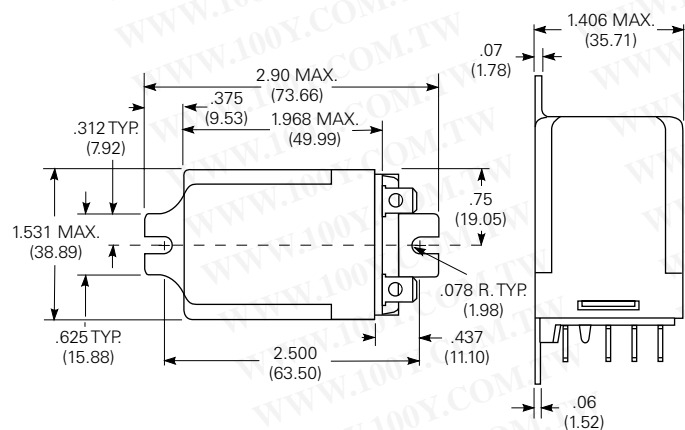
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

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

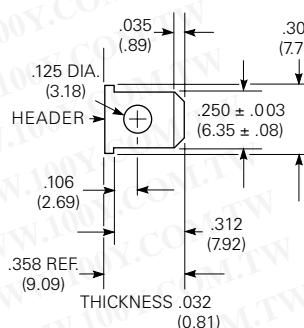
Outline Dimensions



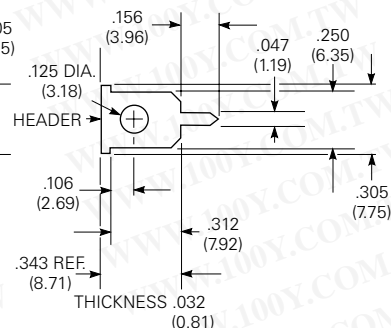
Bracket Mount Case



Terminal Dimensions .250" (6.35mm) Quick Connect/Solder

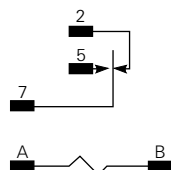


Printed Circuit

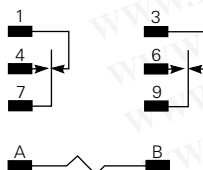


Wiring Diagrams

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

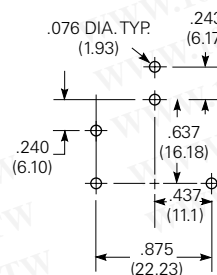


2 Form C
2 Form A (Delete 1 & 3)
2 Form B (Delete 4 & 6)



PC Board Layouts (Bottom Views)

1 Pole Model



2 Pole Model

