



#### 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 100,000 ops.		
1 Form C Single Pole Double Throw	30A 120/240VAC 1 HP @ 120VAC, 1 1/2 HP @ 240VAC 25A @ 28VDC			
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.		

<sup>\*</sup>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)

#### 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

<sup>\*±15%</sup> 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. 20 milliseconds, typical, at nominal Release Time (Excluding Bounce):

VIIID 11 A E

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 Pa	art No. ▶ KU	JHP- TI	A	5	1	-120
<b>1. Basic Series and Type:</b> KUHP = Enclosed 20/30 amp relay.							
<b>2. Contact Arrangement and Rating:</b> 5 = 1C (SPDT); 30 amps. 11 = 20	C (DPDT); 20 amps.						
<b>3. Coil Input:</b> A = AC, 50/60 Hz. D = DC							
<b>4. Mountings:</b> 1 = PLAIN CASE 5 = BRACKET MOUNT C.	ASE T = TOP FLA	NGE CASE					
5. Terminals and Contact Materials: 1 = .250" (6.35mm) quick connect/solder; silver-cae	dmium oxide. 7 = .047" (1.1	9mm) printed circuit;	silver-cadmium oxid	de.			
<b>6. Coil Voltage:</b> AC coils to 277VAC, 50/60 Hz. DC coil	ls to 110VDC.						

NOTE: No sockets are available for this relay.

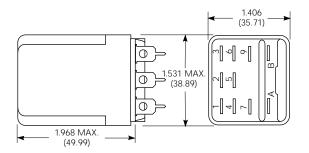
Stock Items - The following items are normally maintained in stock for immediate delivery.

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

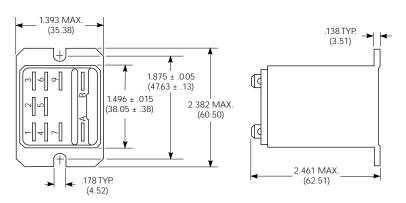


#### **Outline Dimensions**

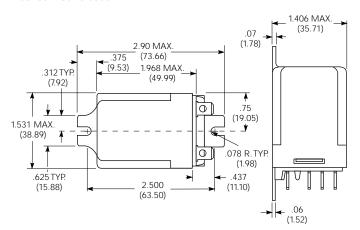
## Plain Case



# **Top Flange Enclosure**



#### **Bracket Mount Case**



#### **Terminal Dimensions** .250" (6.35mm) Quick **Printed Circuit** Connect/Solder .035 305 .250 (3.96)(.89)(7.75) .047 (6.35).125 DIA (1.19).125 DIA. (3.18)(3.18).250 ± .003 HEADER > HEADER (6.35 ± .08) .106 .106 .305 (2.69)(2.69)(7.75).312 .312 (7.92) (7.92).358 REF. .343 REF. (9.09)(8.71)THICKNESS .032 THICKNESS .032

(0.81)

(0.81)

# 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) A B A B

