

Features

- · Single or dual-wound DC coils or single-wound AC coils.
- · Contact arrangements to 3PDT.
- Reset occurs by reversing polarity in a single coil relay or by energizing the reset winding in dual coil relays.
- Uses same sockets as other KU relays.
- Well suited for applications such as alarm systems, machine tools, battery chargers and process controls.

Contact Data @ 25°C

Arrangements:

DC Single Coil: 1 Form C (SPDT), 2 Form C (DPDT) and

3 Form C (3PDT).

DC Dual Coil: 1 Form C (SPDT) and 2 Form C (DPDT). **AC Single Coil:** 1 Form C (SPDT), 2 Form C (DPDT) and

3 Form C (3PDT). **Materials:** Siver-cadmium oxide.

Expected Life:

Mechanical: 10 million operations.

Electrical: 100,000 operations minimum at rated load.

Contact Ratings

Contact Code	Arrangement	Ratings
5	1,2,3 poles	10A @ 28VDC or 240VAC, 80% PF; 1/4 HP @ 120VAC, 1/3 HP @ 240VAC

Initial Dielectric Strength

Between Open Contacts: 500V rms. Between Adjacent Contacts: 1,500V rms. Between Contacts and Coil: 1,500V rms.

Coil Data @ 25°C

Duty Cycle: Continuous. (Latch and reset not to be energized

simultaneously).

Initial Insulation Resistance: 100 megohms, minimum.

Initial Breakdown Voltage: 1500V rms, 60 Hz. between all elements.

Note: On single coil AC models one terminal is common. Latch/Reset function is accomplished by input in series with a diode to provide the correct polarity to the coil. To perform either function, the terminal not being used (Latch or Reset) must be open or isolated with no other path to common or ground.

KUL series

10 Amp Magnetic Latching Relay

N File E22575 **File** 15734

Coil Data

COII Data						
	Nominal Voltage	Resis in O	C tance hms D%†	Must Operate Voltage	0.5 W Resistor	
	Single Coil					
DC Coils	12 24 48	120 472 1,800		9.0 18.0 36.0		
	Dual Coil*					
	12 24 48	3	90 50 00	9.0 18.0 36.0		
	Single Coil with Diodes**					
AC Coils 50/60 Hz.	24 120 240	176 3,700 17,900		20.4 102.0 204.0	680Ω 15,000Ω 68,000Ω	
	Dual Coil					
		Latch	Reset			
	24 120	100 2525	250 7800	20.4 102.0		

- * Dual coil available only with 1 or 2 Form C contacts. On standard dual coil relays, the latch and unlatch voltage must be the same. For unlike voltages, please contact your sales representative.
- voltages, please contact your sales representative.

 ** Diodes and resistors included inside relay with 1 and 2 Form C contacts. For 3 Form C relays, the customer must furnish and wire diodes and resistors externally.
- † ±15% for AC coils.

Operate Data @ 25°C

Must Operate Voltage:

DC Coils: 75% of nominal voltage. **AC Coils:** 85% of nominal voltage.

Operate Time: 25 milliseconds maximum at nominal voltage. Release or Reset Time: 25 milliseconds maximum at nominal voltage.

Environmenal Data

Temperature Range:

Storage: -45°C to +105°C.

Operating:

Single Coil AC & DC: -45°C to +70°C. Dual Coil DC: -45°C to +50°C.

Mechanical Data

Termination: .187" (4.75mm) quick connect/solder terminals. Sockets are

available.

Enclosure: Clear plastic polycarbonate heat and shock resistant case.

Weight: 3.4 oz. (96g) approximately.



Ordering Information **KUL** -11 D 1 1 D -12 Typical Part No. ▶ 1. Basic Series: KUL magnetic latching relay 2. Contact Arrangement: 5 = 1 Form C (SPDT) 11 = 2 Form C (DPDT) 14 = 3 Form C (3PDT) 3. Coil Input: D = DCA = AC4. Mounting: 1 = Plain case 5 = Bracket mount case 5. Terminal & Contact Materials: 5 = .187" (4.75mm) quick connect/solder; silver-cadmium oxide, 10 amps 6. Number of Coils: S = Single coil D = Dual coil (1 & 2 pole models only) 7. Coil Voltages: Single coil—24-240VAC 12-48VDC Dual coil—12-48VDC, 24 or 120VAC (to 2 Form C)

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

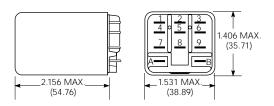
KUL-5A15S-120 KUL-11A15S-24

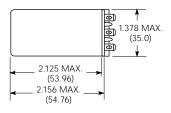
KUL-11A15S-120 KUL-11D15D-12

KUL-11D15D-24 KUL-11D15S-12

KUL-11D15S-24

Outline Dimensions

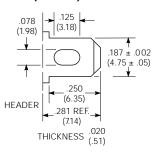




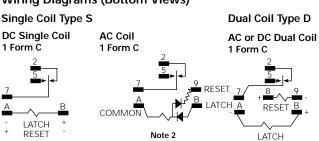
See KU series drawings for bracket mount case

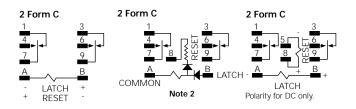
Terminal Dimensions

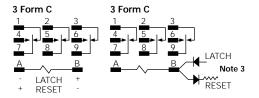
.187" (4.75mm) Standard



Wiring Diagrams (Bottom Views)







- Note 1 Contact positions shown in diagrams is with the "RESET" input having been energized last
- Note 2 Do not connect any low impedance loads from terminal B to A.
- Note 3 Resistor and diodes connected by customer. See Coil Data Chart on KUL Series engineering data page for resistor value. Recommended using 1N4007 diode.

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