

\* SINCE 1976 \*

## KLT MINIATURE POWER RELAYS SPDT 3, 6, 12, 15 & 20 AMP

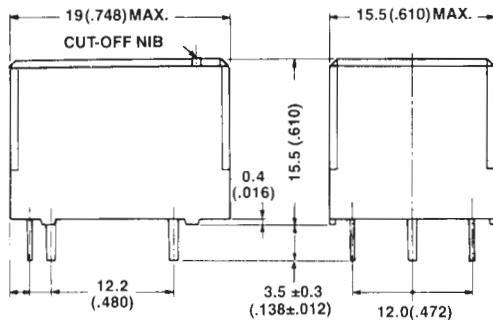


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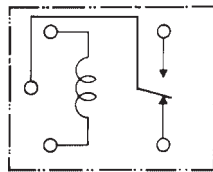
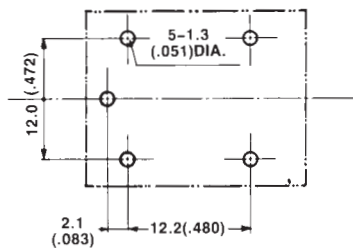


DIMENSIONS: mm (inch)



MOUNTING HOLES  
(BOTTOM VIEW)

TERMINAL ARRANGEMENT  
(BOTTOM VIEW)



### ORDERING INFORMATION **KLT - F - 1C - 12 - DC12 - 1**

**Model No.** \_\_\_\_\_

**NIL: Class B** \_\_\_\_\_  
**Class F** \_\_\_\_\_

**Contact Arrangement:** \_\_\_\_\_  
 A = 1 Form A (SPST-NO)    B = 1 Form B (SPST-NC)    C = 1 Form C (SPDT)

**Contact Material & Rating:** \_\_\_\_\_  
 3 Amp = Silver, gold flash  
 6 Amp = Silver cadmium oxide  
 12 Amp = Silver cadmium oxide  
 15 Amp = Silver tin indium oxide  
 20 Amp = Silver tin indium oxide

**Nominal Voltage:** \_\_\_\_\_  
 3 = 3VDC; 5 = 5VDC; 6 = 6VDC  
 9 = 9VDC; 12 = 12VDC; 24 = 24VDC; 48 = 48VDC

**NIL = Sealed** \_\_\_\_\_  
**1 = Unsealed** \_\_\_\_\_

### FEATURES

- Highly reliable, low cost
- Miniature size & large switch capacity up to 20A
- High dielectric strength type
- Fully Sealed
- Inexpensive

### ELECTRICAL RATINGS

3 Amp: 3A at 120VAC or 28VDC resistive  
 6 Amp: 6A at 120VAC or 28VDC; 6A at 240VAC general purpose; 1/4 hp at 120VAC  
 12 & 15 Amp: 12A at 120VAC or 28VDC; 12A at 240VAC general purpose; 7A at 277VAC general purpose; 1/4 hp at 120VAC; 15A at 120VAC resistive  
 Pilot duty: 40A in-rush, 4A steady state at 125VAC  
 10A in-rush, 1A steady state at 240VAC

N.O. only, Single Pole:  
 10A at 12VDC Tungsten; 15A at 120VAC Tungsten  
 1/2 hp at 120VAC; 5.4A at 277 VAC Ballast

### GENERAL DATA

Contact resistance: 50mΩ Max.  
 Operate Time: 8ms Max. (at nominal voltage)  
 Operate Bounce Time: 3 ms Max.  
 Release Time: 5 ms Max.  
 Release Bounce Time: 8 ms Max.  
 Max. Switching Voltage: 277VAC & 125VDC  
 Min. Permissible Load (reference value):  
 3 Amp: 5VDC at 1mA  
 6, 12, 15 & 20 Amp: 5VDC at 100mA

**Insulation Rating: Class B & Class F**  
 Insulation Resistance: more than 100MΩ at 500VDC  
 Dielectric Strength: 750VAC (50/60Hz), between open contacts  
 1500VAC (50/60Hz), between coil & contact

Vibration: 1.5mm double amplitude, 10 to 50Hz  
 Shock: 100 m/sec<sup>2</sup> (approx. 10G's)  
 Operation Frequency: Mechanical: 18,000 operations/hour  
 Electrical: 1,800 operations/hour (under rated load)  
 Service Life: Mechanical: 10 million operations  
 Electrical: 100,000 operations min. at rated resistive load  
 Temperature Range: Class B: -40°C to 85°C  
 Class F: -40°C to 105°C  
 Temperature Rise: Less than 35 degrees  
 Humidity: 45% - 85% RH  
 Approximate Weight: 12 grams

### COIL RATINGS

Nominal Coil Voltage	Coil Resistance in Ohms, ±10% at 20°C 6, 12, 15 Amp	Coil Resistance in Ohms, ±10% at 20°C 20 Amp	Must Operate Voltage at 20°C	Must Release Voltage at 20°C	Maximum Voltage
3VDC	25	20	75% max. of nominal voltage	10% min. of nominal voltage	130% of nominal voltage
5VDC	70	55			
6VDC	100	80			
9VDC	225	180			
12VDC	400	320			
18VDC	900	1100			
24VDC	1600	1280			
48VDC	6400	5120			

### REMARK

- Use alcohol, freon or water for cleaning. (water temperature not to exceed 50°C)