

# TECHNICAL SPECIFICATIONS



## WE STRIVE TO SET OUR CUSTOMERS UP FOR SUCCESS

with a complete breakdown of technical specifications for charting the proper use of our products. Contact our experienced team if you are seeking additional details.

CONTACT: [INFO@OCCORP.COM](mailto:INFO@OCCORP.COM)

### ★ GENERAL ★

A multi-pole, solenoid actuated relay in Dust-Tight enclosure (Series 801/901, 807/907), Environmentally-Sealed enclosure (Series 831/931, 837/937), or Hermetically-Sealed enclosure (Series 881/981, 887/987).

**MECHANICAL LIFE:** @ 20 CPM million operations except latching relays which are 2,000,000 operations.

**WEIGHT:**

USES	801/901		831/931		881/981	
	oz.	gms	oz.	gms	oz.	gms
12	4.5	127	10	283	17	481
24	7.0	198	13	368	22	623
36	7.5	212	15	425	23	652
48	8.5	240	16	453	23	652
52,60	9.0	255	18	510	24	680

\*Add 3 oz./84 gms for latching units.

**INSULATION RESISTANCE:** MIL-STD-202 Method 302, Condition B (500 VDC). 5,000 megohms between all insulated points. 50,000 megohms available on special order.

**DIELECTRIC WITHSTANDING VOLTAGE:** MIL-STD-202 Method 301: 1000 Volts RMS, 60 cycle AC, between all insulated points. 1500 Volt available on special order.

#### ENVIRONMENTAL SPECIFICATIONS:

**AMBIENT TEMPERATURE:** -55°C to 85°C

**VIBRATION:** .06" DA 10 to 55 CPS. No physical damage. Refer to factory for other values.

**SHOCK:** 50G peak sawtooth. No physical damage. Refer to factory for other values.

#### SEALING:

- 831/931 Series MIL-R-5757E, Para. 4.8.4.1,
- 881/981 Series MIL-R-5757D, Para. 4.7.2.3,
- Test III for MIL-R-5757E, refer to factory.

**MOISTURE RESISTANCE:** MIL-R-5757E, Para. 4.8.19

**SALT SPRAY:** Series 831/931 and 881/981. MIL-R-5757E, Para. 4.8.13.

CONNECT WITH US AT (847) 742-3566 FOR MORE INFORMATION. PRODUCTS OR SERVICE OPPORTUNITIES.

### ★ CONTACTS ★

#### CONFIGURATIONS AVAILABLE:

#### DUST-TIGHT, ENVIRONMENTAL & HERMETICALLY-SEALED

NO. OF POLES	FORM NO.
4, 8, 12, 24 & 36	A, B, C or D
48 & 52	A, B, or C
60	A
HERMETICALLY-SEALED	
24, 36, 48 or 51	A
24, 34	C
FORM DESCRIPTION	
A = Normally open	
B = Normally closed	
C = Double throw break before make	
D = Double throw make before break	

#### CONTACT MATERIAL:

##### 800 SERIES:

- Fine silver, rhodium, gold-plated
- 50 millionths min. (bright finish)

##### 900 SERIES:

- Moveable contact (common). Fine silver button with gold plated diffusion bond. Then 5 millionths rhodium plate, then gold, 80 millionths min. Bright finish. Fixed contact (N.C. and N.O.) bifurcated: gold plated 200 millionths min.

#### CONTACT RATINGS (TYPICAL):

##### 800 SERIES:

###### GENERAL PURPOSE

- 5 Amp, 28 VDC resistive, switched
- 5 Amp, 120 VAC 60 Hz resistive

##### 900 SERIES:

###### Microvolts, dry circuit

- 1 Amp, 28 VDC resistive
- 1/8 Amp 120 VAC 60 Hz resistive
- 2 Amp, 120 VAC carry only (refer to factory for other values)

#### CONTACT LIFE (RESISTIVE @ 20 CPM):

##### 800 SERIES:

- Minimum current, i.e. 100 ma @ 10 VDC: 5,000,000 cycles
- High level, i.e. 5 Amp @ 28 VDC: 100,000 cycles

##### 900 SERIES:

- Low level, i.e. 10 ma @ 30 MV: 20,000,000 cycles
- High level, i.e. 1 Amp @ 28 VDC: 100,000 cycles