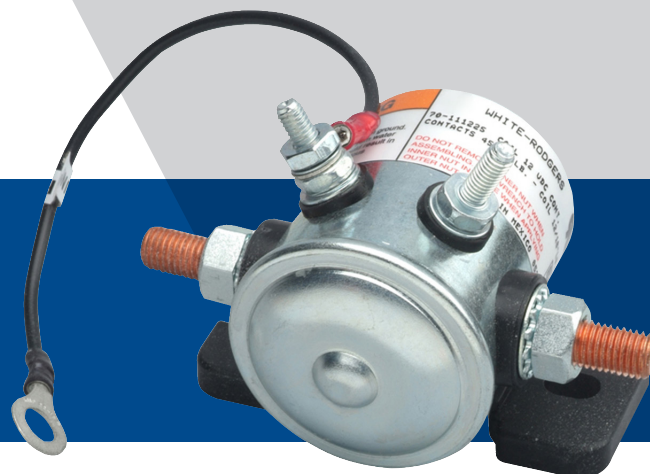


# Type 70 DC Power Contactors

- High current capacity control
- Isolated or grounded coils
- Enclosed in dust-resistant case



## SPECIFICATIONS

### Dielectric Strength

- 500 volts

### Temperature Range

- -40°F/-40°C to 122°F/50°C

### Mechanical Life (no load)

- 250,000 operations

### Electrical Life (rated load)

- 100,000 cycles

### Recommended Mounting Position

- Vertical plane with cap down

### Vibration

- 5g's vertical and horizontal planes

### Weight (approximate)

- 14.0 oz.

### Duty Cycle

- Continuous
- Intermittent: 10 seconds "on" maximum and minimum 60 seconds "off".  
One minute "on" maximum and minimum 6 minutes "off"

### Hardware Torque Specification

- Mounting Bracket: 100 inch-lbs. max
- Contact Terminal: 45-55 inch-lbs.  
(a back-up wrench must be used to hold the bottom nut stationary during installation)
- Coil Terminal: 12-18 inch-lbs

### Contacts

- Pole form: SPNO
- Material: copper
- Termination: 5/16- 24 UNF-2A thread

## CONTACT RATINGS

Volts DC	Normally open	
	Continuous	Inrush
6	80A	300A
12	80A	150A
24 & 36	50A	50A

### Coils

- Voltage: 6 VDC through 36VDC
- Termination: #10-32 UNF-2A thread
- Power (approximate)  
Intermittent 23 watts  
Continuous 9 watts

### Connections

- Two coil terminals isolated from case
- One coil terminal with ground wire, one coil terminal isolated from case
- One coil lead common to NO terminal (stud marked "BAT")

### Minimum operating voltage

- 75% of rated coil voltage
- Maximum 10% over rated coil voltage

## COIL DATA

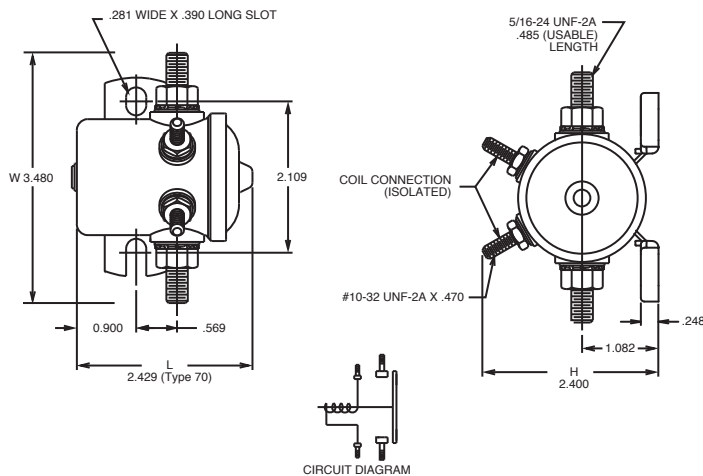
Volts DC	Resistance in Ohms	
	Intermittent	Continuous
6	1.5	4.0
12	6.2	16.0
18	16.0	37.4
24	23.9	60.4
36	60.4	114.0

# Type 70 DC Power Contactors

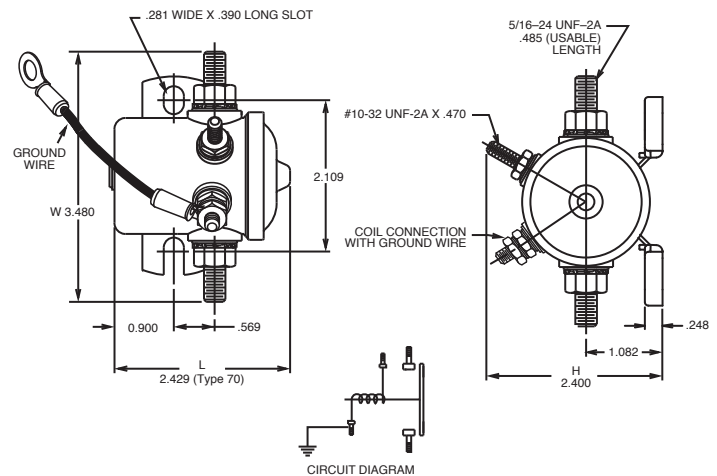
## APPLICATION NOTES

- Not all part number combinations are available. Please contact your Sales Representative for available part numbers.
- DC contactors applied in battery charging circuits should be protected from higher than rated voltage during charging. The service life may be affected by this condition and the DC contactor may or may not operate the circuit as intended.
- Circuits should be designed to provide safe operation should the DC contactor fail in either the open or closed position.
- Special construction options, including a curved bracket, may be available under other part numbers, including 111-xxxD (short can), 5608-x and 878x-x.
- A back-up wrench **MUST** be used to hold the bottom nut stationary during terminal installation.

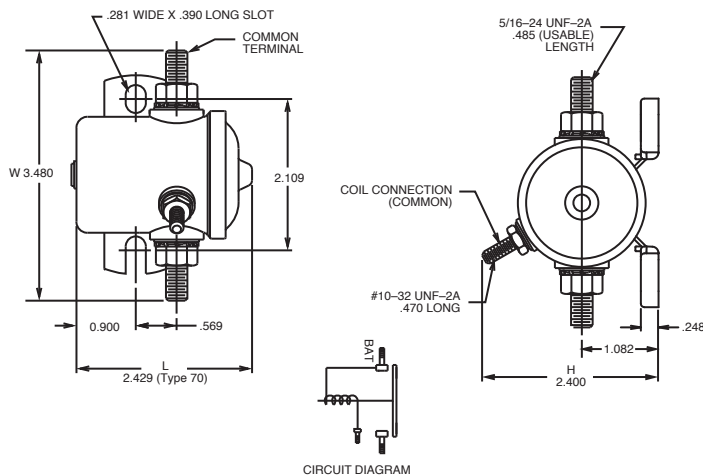
## ISOLATED COIL



## COIL TERMINAL TO GROUND



## COIL COMMON TO LOAD



## TYPE 70 Part Numbering System

