WHITE-RODGERS

Type 70 and 71

solenoids

FEATURES

- High current capacity control
- Isolated or grounded coils
- Enclosed in dust-resistant case
- Longer steel encasement permits lower heat rise and more sensitive operation on Type 71

ENGINEERING DATA

Contacts

- Pole form- SPNO, SPDT
- Material- SPNO-copper or silver SPDT-copper and silver or all silver
- Termination- 5/16"-24 UNF-2A thread

RATINGS								
		NO		NC				
Туре	Volts DC	Cont.	Inrush	Cont.	Inrush			
	6	80A	800 A	60A	100 A			
70	12	80 A	400 A	60 A	60 A			
	24 & 36	50 A	200 A	30 A	30 A			
	6	80A	1000 A	60A	100 A			
71	12	80 A	500 A	60 A	60 A			
	24 & 36	50 A	250 A	30 A	30 A			

Coils

- Voltage–6 VDC through 36 VDC
- Termination-#10-32 UNF-2A thread
- Power (approximate) Type 70 intermittent 23 watts Type 70 continuous 9 watts Type 71 intermittent 25 watts Type 71 continuous 10 watts
- Connections
 - 1. Coil isolated (two terminals)
 - 2. One coil lead grounded to case (one terminal)
 - 3. One coil lead common to NO terminal marked "BAT" (one terminal)
- Operate (77°F/25°C) 75% of nominal coil voltage; 110% max. safe of nominal coil voltage

COIL DATA									
TYPE 70			TYPE 71						
	Resistance	e (Ohms)		Resistance (Ohms)					
Volts DC	Int.	Cont.	Volts DC	Int.	Cont.				
6	1.5	4.0	6	1.4	3.5				
12	6.2	16.0	12	4.9	13.5				
18	20.3	37.4	18	13.46	36.0				
24	23.9	60.4	24	20.1	57.1				
36	60.4	114.0	36	57.1	131.0				



GENERAL DATA

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 operations

Mounting Position

- Recommended mounting is plunger vertical with cap down
- Weight (approximate)
 - Type 70–14.0 oz.
 - Type 71–17.0 oz.

Duty Cycle

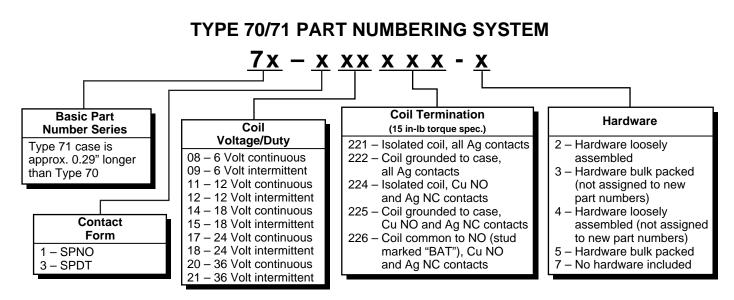
- Continuous
- Intermittent–10 seconds "on" maximum and minimum 60 seconds "off". One minute "on" maximum and minimum 6 minutes "off".

Hardware Torque Specification

- Contact Terminal: 45-55 inch-lbs.
- Coil Terminal: 12-18 inch-lbs.



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APPLICATION NOTES

- Not all part number combinations are available. Please contact your Sales Representative for available part numbers.
- Special construction options, including a curved bracket, may be available under other part numbers, including 111-xxxD, 111-xxxE, 5608-x and 878x-x.
- Solenoids 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 solenoid may or may not operate the circuit as intended.
- Circuits should be designed to provide safe operation should the solenoid fail in either the open or closed position.
- A back-up wrench must be used to hold the bottom nut stationary during installation.

