ZCS1-70/71

HIGH CURRENT SOLENOIDS

FEATURES

- High current handling capability
- · Isolated or grounded coils
- Enclosed in dust-resistant case



ORDERING INFORMATION

ZCS1-70 A 1 DC6V C 2

1. Series Number: ZCS1-70, ZCS1-71

2. Contact Form: $\underline{A} = 1A$ (SPNO); $\underline{C} = 1C$ (SPDT)

3. Coil Termination:

1. = Isolated coil, Ag contacts

2. = Coil grounded to case, all Ag contacts

3. = Isolated coil, Cu NO & Ag NC contacts

 $\underline{4.}$ = Coil grounded to case, Cu NO & Ag NC

contacts

5. = Coil common to NO, Cu NO & Ag NC contacts

4. Coil Voltage: DC6V; DC12V; DC18V;

DC24V; DC36V

5. Coil Type: \underline{C} = Continuous

6. Hardware:

2. Hardware loosely assembled

5. Hardware bulk packed

7. No Hardware included

COIL PARAMETERS

- Termination; #10-32 UNF 2A thread
- 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)
- · Coil data:

Part	Coil Voltage (VDC)		Coil Resistance (ohm)		Must-Operate Voltage (VDC)		Coil Power (W)	
	Rated	Max	Int.	Cont.	Int.	Cont.	Int.	Cont.
	6	6.6	1.5	4.0	4.02	4.5		
	12	13.2	6.2	16.0	8.04	9.0		
ZCS1-70	18	19.8	20.3	37.4	12.06	13.5	23	9
	24	26.4	23.9	60.4	16.08	18.0		
	36	39.5	60.4	114.0	24.12	27.0		
ZCS1-71	6	6.6	1.4	3.5	4.02	4.5	25	10
	12	13.2	4.9	13.5	8.04	9.0		
	18	19.8	13.5	38.0	12.06	13.5		
	24	26.4	20.1	57.1	16.08	18.0		
	36	39.8	57.1	131.0	24.12	27.0		

CONTACT DATA

• Contact Arrangement: 1A (SPNO), 1C (SPDT)

• Contact Material: 1A- Cu or Ag; 1C- Cu and Ag, or all Ag

UL Pending

Part	Coil Voltage (VDC)		Ily Open ntact	Normally Closed Contact		
		Cont. (A)	In-rush (A)	Cont. (A)	In-rush (A)	
	6	80	800	60	100	
ZCS1-70	12	80	400	60	60	
	18, 24 & 36	50	200	30	30	
	6	80	1000	60	100	
ZCS1-71	12	80	500	60	60	
	18, 24 & 36	50	250	30	30	



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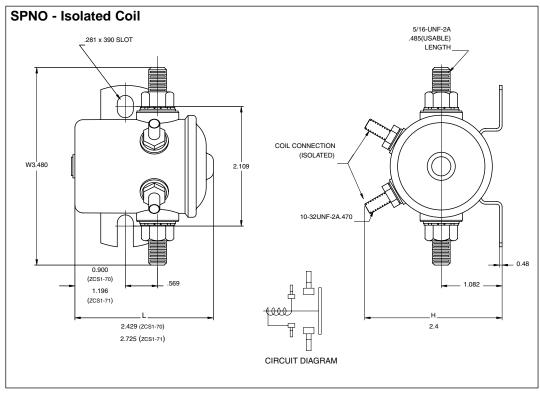
www.azettler.com

ZCS1-70/71

GENERAL DATA

Dielelectric Strength	500 Volts		
Temperature Range	-40°F~122°F (-40°C~50°C)		
Mechanical Life (no load)	250,000 cycles		
Electrical Life (rated load)	100,000 cycles		
Mounting position (Recommended)	Plunger vertical with cap down		
	Continuous;		
Duty Cycle	Intermittent: At 10 sec "on" maximum requires minimur of 60 sec "off". With a 60 sec "on" max ther is a minimum of 6 min "off."		
Hardward Torque specification	44-55 in-lbs (Contact terminal); 12-18 in-lbs (Coil terminal)		
Weight	398g (ZCS1-70); 483g (ZCS1-71)		

MECHANICAL DATA



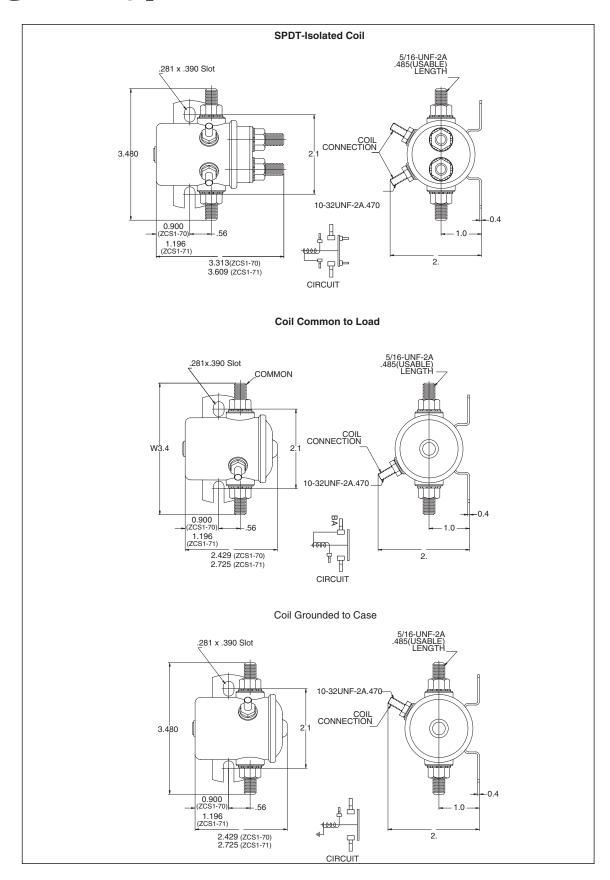
APPLICATION NOTES:

- 1.) Not all number combinations are available. Please contact your Sales Representative for available part numbers.
- 2.) Solenoid 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.
- 3.) Circuits should be designed to provide safe operation should the solenoid fail in either the open or closed position.
- 4.) A back-up wrench must be used to hold the bottom nut stationary during installation.



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