

RELAYS AND CONTACTORS

D.C. Power Contactors – Type 70

Type 70
SPNO



Sec.	STANCOR PART NUMBER	Duty Cycle	Terminal Type*	Pole Form	Bracket Style	Coil Volt. D.C.	Coil Resistance (Ohms) @ 25°C	Contact Material	Contact Rating-(Amps.) Inductive Load				DIMENSIONS INCHES			Weight (oz.)	Agency* Certif.	
									Volt. D.C.	Normally Open Continuous	Normally Open Inrush**	Normally Closed Continuous	Normally Closed Inrush	L	Case W			H
A	70-901	Continuous	4	SPNO	Standard	6	4	Copper	6	80	300	-	-	2.47	3.48	2.40	12.5	
	70-914	Continuous	3A	SPNO	Standard	12	16	Copper	12	80	150	-	-	2.47	3.48	2.40	12.5	
B	70-918	Continuous	3B	SPNO	Standard	12	16	Copper	12	80	150	-	-	2.47	3.48	2.40	12.5	
	70-902	Continuous	4	SPNO	Standard	12	16	Copper	12	80	150	-	-	2.47	3.48	2.40	12.5	
	70-906	Continuous	4	SPNO	Standard	12	16	Silver	12	80	150	-	-	2.47	3.48	2.40	12.5	
	70-915	Continuous	3A	SPNO	Standard	24	60	Copper	24	50	50	-	-	2.47	3.48	2.40	12.5	
C	70-903	Continuous	4	SPNO	Standard	24	60	Copper	24	50	50	-	-	2.47	3.48	2.40	12.5	
	70-907	Continuous	4	SPNO	Standard	24	60	Silver	24	50	50	-	-	2.47	3.48	2.40	12.5	
	70-904	Continuous	4	SPNO	Standard	36	114	Copper	36	50	50	-	-	2.47	3.48	2.40	12.5	
	70-908	Continuous	4	SPNO	Standard	36	114	Silver	36	50	50	-	-	2.47	3.48	2.40	12.5	

* Terminal Type: "3A" = Grounding coil wire supplied
"3B" = Coil Common to Load
"4" = Isolated Coil

For outline drawings refer to pages 50-51.

** Inrush Current: Current applied within the first 1/2 second of contact closure

* Agency Certification Note: U.L. 583 Recognized (File AU2138)

Engineering Design Data

D.C. Type	Coil Rating	Operation in % of Nom. Coil Voltage Rating		Breakdown Voltages All Terminals - 60 Hz RMS			Contact Material	Electrical Life		Mechanical Life		Max. Oper. Temp. °F
	Nominal Magnetic Coil Rating (Watts)		Max. Safe Operate		Open Contacts Same Polarity	To Ground		Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min	
	Pick-up			Opposite Polarity			Power					
70	9	75%	110%	500	500	500	Copper Silver Alloy	100,000 200,000	4 4	250,000 250,000	4 4	122 -

Temperature Range

— -40°F to 122°F

Terminations

— Contacts: 5/16"-24 UNF-2A thread
— Coil: #10-32 UNF-2A thread

Recommended Mounting

— Plunger vertical with cap down

Hardware Torque Specification

— Contact Terminal: 45-55 inch-lbs.
— Coil Terminal: 12-18 inch-lbs.
— Insulated Mounting Brackets
— **Caution: A back-up wrench must be used to hold the bottom nut stationary.**

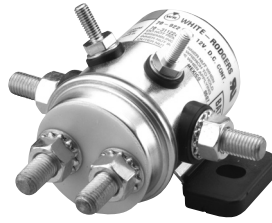
Type 70 Custom Design Capabilities

— Coil Voltage 6 VDC through 36 VDC
— Curved mounting bracket
— Please complete application data form on page 95 of this section.

Note: Caution must be used in coil selection for use in 12 volt systems where battery charging may expose coil to continuous, higher-than-rated voltage.
Stancor will not be responsible for consequences of misapplied solenoids.

RELAYS AND CONTACTORS

D.C. Power Contactors – Type 70



Type 70
SPDT



Sec.	STANCOR PART NUMBER	Duty Cycle	Terminal Type*	Pole Form	Bracket Style	Coil Volt. D.C.	Coil Resistance (Ohms) @ 25° C	Contact Material	Contact Rating-(Amps.) Inductive Load					DIMENSIONS INCHES			Weight (oz.)	Agency Certif.
									Volt. D.C.	Normally Open Continuous	Inrush**	Normally Closed Continuous	Inrush**	L	Case W	H		
A	70-922	Continuous	6	SPDT	Standard	12	16	N.O. Copper N.C. Silver	12	80	300	60	60	3.31	3.48	2.40	14.0	
	70-910	Continuous	6	SPDT	Standard	12	16	N.O. and N.C. Silver	12	80	150	60	60	3.31	3.48	2.40	14.0	
B	70-923	Continuous	6	SPDT	Standard	24	60	N.O. Copper N.C. Silver	24	50	50	30	30	3.31	3.48	2.40	14.0	
	70-911	Continuous	6	SPDT	Standard	24	60	N.O. and N.C. Silver	24	50	50	30	30	3.31	3.48	2.40	14.0	
	70-912	Continuous	6	SPDT	Standard	36	114	N.O. and N.C. Silver	36	50	50	30	30	3.31	3.48	2.40	14.0	

* Terminal Type: "6" = Isolated Coil

** Inrush Current: Current applied within the first 1/2 second of contact closure

★ Based on 50K Cycles

* Agency Certification Note: U.L. 583 Recognized (File AU2138)

For outline drawings refer to page 51.

Engineering Design Data

D.C. Type	Coil Rating Nominal Magnetic Coil Rating (Watts)	Operation in % of Nom. Coil Voltage Rating		Breakdown Voltages All Terminals - 60 Hz RMS			Contact Material		Electrical Life		Mechanical Life		Max. Oper. Temp. °F
		Pick-up	Max. Safe Operate	Opposite Polarity	Open Contacts Same Polarity	To Ground	Power	Pilot	Oper. At Rated Load	Oper. Per Min.	Oper. At No Load	Oper. Per Min.	
70	9	75%	110%	500	500	500	Copper Silver	- -	100,000 200,000	4 4	250,000 250,000	4 4	122 -

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Type 70 Custom Design Capabilities

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— Curved mounting bracket
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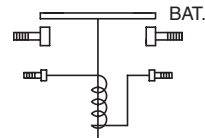
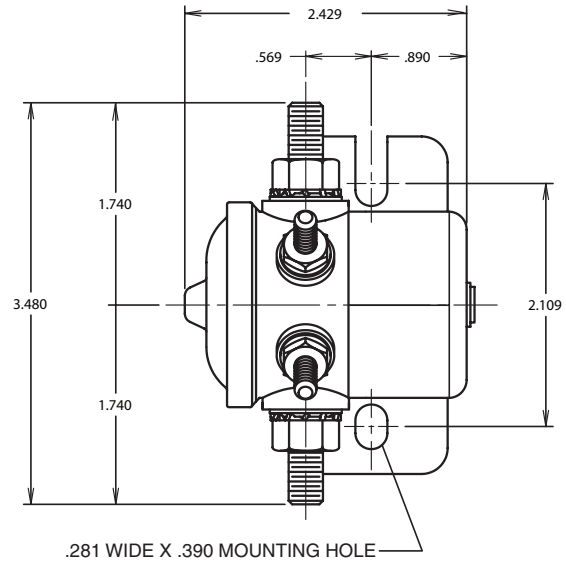
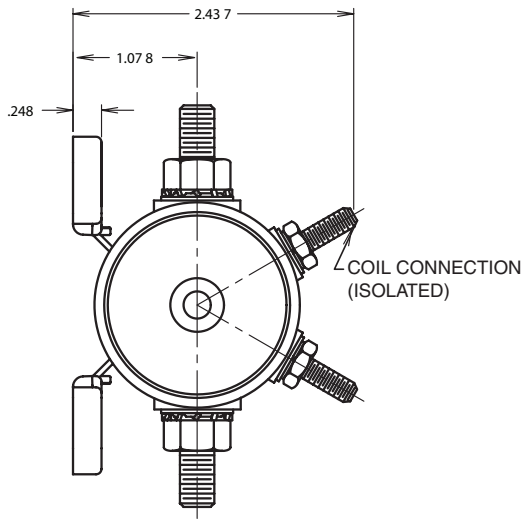
Note: Caution must be used in coil selection for use in 12 volt systems where battery charging may expose coil to continuous, higher-than-rated voltage.

Stancor will not be responsible for consequences of misapplied solenoids.

RELAYS AND CONTACTORS

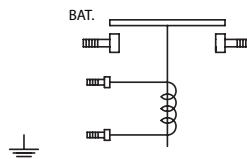
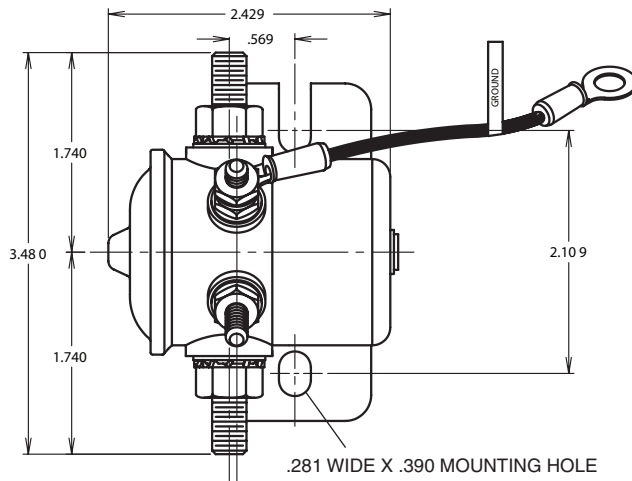
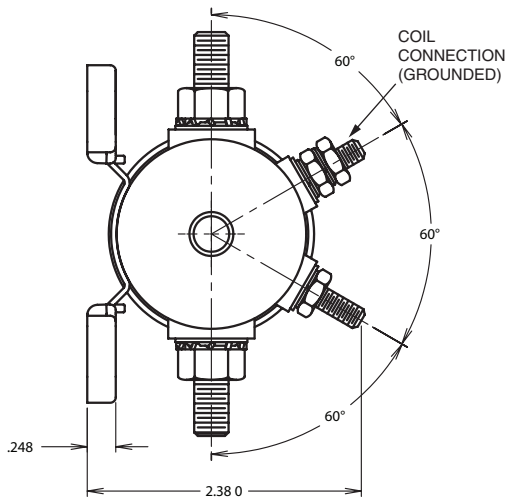
Type 70

Terminal Type 4 – Isolated Coil



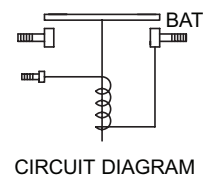
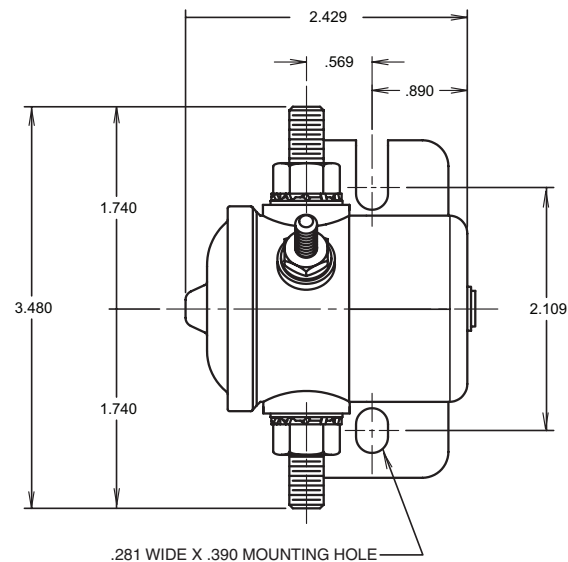
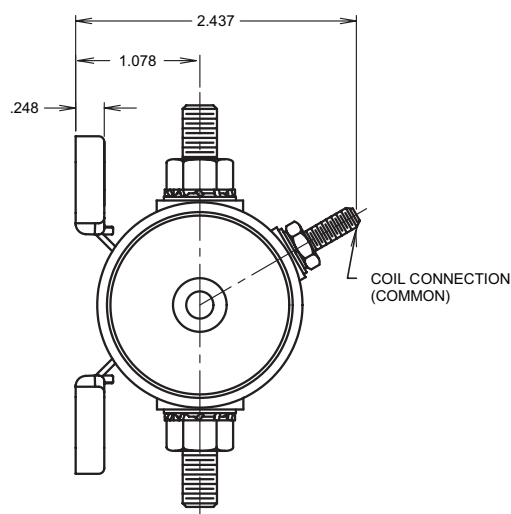
CIRCUIT DIAGRAM

Terminal Type 3A – Coil Terminal to Ground



CIRCUIT DIAGRAM

Terminal Type 3B – Coil Common to Load



Terminal Type 6 – Isolated Coil

