

Type 120



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 Closed Continuous	Inrush	L	Case W	H			
A 120-901	Continuous	4	SPNO	Standard	12	16.0	Silver Alloy	12	100	400	-	-	2.13	2.88	3.25	6.0	-
120-907	Continuous	4	SPNO	L	12	16.0	Silver Alloy	12	100	400	-	-	2.50	3.00	3.25	6.0	-
120-943	Continuous	5	SPNO	L	12	16.0	Silver Alloy	12	100	400	-	-	2.50	3.00	3.25	6.0	-
120-913	Continuous	3	SPNO	Standard	12	16.0	Silver Alloy	12	100	400	-	-	2.13	2.88	3.25	6.0	-
120-906	Intermittent	4	SPNO	Standard	12	6.0	Copper	12	80	400	-	-	2.13	2.88	3.25	6.0	-
120-912	Intermittent	4	SPNO	L	12	6.0	Copper	12	80	400	-	-	2.50	3.00	3.25	6.0	-
B 120-902	Continuous	4	SPNO	Standard	15	20.8	Silver Alloy	15	100	400	-	-	2.13	2.88	3.25	6.0	-
120-908	Continuous	4	SPNO	L	15	20.8	Silver Alloy	15	100	400	-	-	2.50	3.00	3.25	6.0	-
120-903	Continuous	4	SPNO	Standard	18	37.0	Silver Alloy	18	100	400	-	-	2.13	2.88	3.25	6.0	-
120-909	Continuous	4	SPNO	L	18	37.0	Silver Alloy	18	100	400	-	-	2.50	3.00	3.25	6.0	-
C 120-904	Continuous	4	SPNO	Standard	24	64.0	Silver Alloy	24	100	400	-	-	2.13	2.88	3.25	6.0	-
120-910	Continuous	4	SPNO	L	24	64.0	Silver Alloy	24	100	400	-	-	2.50	3.00	3.25	6.0	-
120-905	Continuous	4	SPNO	Standard	36	100.0	Silver Alloy	36	100	400	-	-	2.13	2.88	3.25	6.0	-
120-911	Continuous	4	SPNO	L	36	100.0	Silver Alloy	36	100	400	-	-	2.50	3.00	3.25	6.0	-

— Water Resistant

For outline drawings refer to page 92.

‡ Intermittent Duty Cycle = 30 seconds "on" maximum and 6 minutes "off"

\* Terminal Type: "3" = Grounded Coil to Bracket, "4" = Isolated Coil, "5" = Grounded with 1/4" Q.C. Terminal

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

**Engineering Design Data**

D.C. Type	Coil Rating	Operation in % of Nom. Coil Rating		Breakdown Voltages All Terminals - 60 Hz RMS			Contact Material		Electrical Life		Mechanical Life		Max. Oper. Amb. °F
	Nominal Magnetic Coil Rating (Watts)	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.	
120	-	75%	110%	500	500	500	Copper	-	10,000	2	100,000	30	150
							Silver Alloy		50,000	2	100,000	30	

**Temperature Range**

- Intermittent Duty: -20°F to 150°F
- Continuous Duty: -20°F to 120°F

**Power (approximate)**

- Continuous 8.1 watts
- Intermittent 14.4 watts

**Terminations**

- Contacts: 5/16" - 24 studs, .495" min. length
- Coil: #10-32, .451" min. length

**Recommended Mounting**

- Coil terminals up or horizontal

**Hardware Torque Specification**

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

**Type 120 Custom Design Capabilities**

- Coil Voltages 6VDC through 48VDC
- 1/4" Contact Studs
- 1/4" Q.C. Coil Terminals
- U.L. 94-V0 rated case material and coil - Max. 180° F
- Please complete application data form on page 99 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. White-Rodgers will not be responsible for consequences of misapplied solenoids.

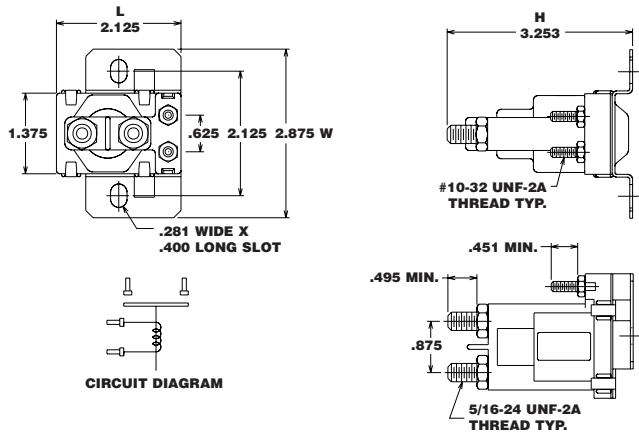


White-Rodgers • Emerson Electric Co.  
 9797 Reavis Road • St. Louis, MO 63123  
 (314) 865-8799 • Fax (314) 638-2400  
 www.stancor.com

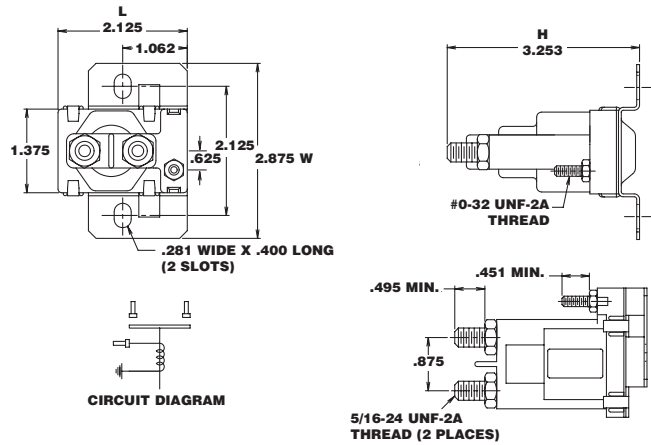


**Type 120**

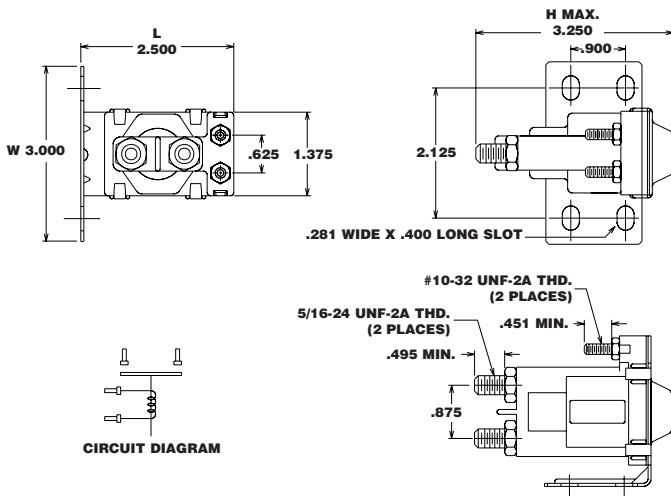
**Terminal Type 4 -  
Isolated Coil (STD Bracket)**



**Terminal Type 3 -  
Grounded Coil to Bracket**



**Terminal Type 4 -  
Isolated Coil (L Bracket)**



**Terminal Type 5 -  
Grounded Coil with Q.C. Terminal**

