SPRING RETURN ELECTRIC

Not Available With Manual Override



NEMA 4/6/7 Enclosure

Approvals

A.C. Models Only
Canadian Standards Association
CSA NRTL/C—Enclosure 4
CSA NRTL/C—Class I, Divisions 1 & 2, Groups C & D
CSA NRTL/C—Class II, Divisions 1 & 2, Groups E, F & G
CSA NRTL/C—Approved to UL standard No. 429, Electrically Operated Valves
CSA NRTL/C—Approved to UL Standard No. 1203, Electrical Equipment for us in Explosion - proof And Dust - Ignition - proof Hazardous (Classified) Locations

Model									
SURE49									
Typical Application									
 For on/off and modulating control of: Part turn ball, butterfly, plug valves or rotary dampers when emergency shutdown or shutoff capability is required in the event of a loss of power. 									
	Temperature Range								
Stand Optic	dard: -40°F to +150°F -40°C to +65°C mal: -60°F to +150°F -50°C to +65°C								
Optic Com capa expo temp for a	Optional: Compliance to NFPA 130, capable of operation after exposure to ambient temperature of 482°F (250°C) for a minimum of 1 hour.								
17	Voltage								
115 230 24 V/ 12VE	115 VAC, 1 Phase, 50/60 Hz. 230 VAC, 1 Phase, 50/60 Hz. 24 VAC, 1 Phase, 50/60 Hz. 12VDC, 24VDC								
0	Torque Range								
600 p (68 n	ound inches spring end ewton meters)								
	Speed Range								
5, 15 & 30 seconds for 90° revolution, motor operation 2 to 5 seconds, spring operation									
0	Spring								
Helical torsion spring, spring steel, XYLAN® coated									
Standard Features									
AC Voltages 4 – SPDT Switches, PTC Heater, Motor Brake DC Voltages 2 – SPDT (High Current) Switches, PTC Heater, Motor Brake									



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115 & 230 VAC, 1 Phase, 50/60 Hz.

						Current Ratings		Current Ratings	
Model	Output Torque	Electrical Speed of	Spring Speed	Duty Cycle Rating	Duty Cycle Rating	115 VAC		220 VAC	
	Inch Pounds (N.m)	Operation — 60 Hz. (50 Hz.)	of Operation	115 VAC	220 VAC	N.L.A.*	L.R.A.*	N.L.A.*	L.R.A.*
Sure 25-5	300 (34)	5 seconds/90° (6 seconds/90°)	2 seconds/90°	50% (1)	50% (1)	1.40	2.15	CF**	CF**
Sure 25-10	300 (34)	10 seconds/90° (12 seconds/90°)	2 seconds/90°	50% (2)	50% (2)	1.00	1.55	CF**	CF**
Sure 24-10	300 (34)	10 seconds/90° (12 seconds/90°)	2 seconds/90°	25% (1)	25% (1)	.70	1.05	.45	.65
Sure 49-5	600 (68)	5 seconds/90° (6 seconds/90°)	2 seconds/90°	25% (1)	25% (1)	1.10	1.80	1.00	1.20
Sure 49-15	600 (68)	15 seconds/90° (18 seconds/90°)	2 seconds/90°	25% (1)	25% (1)	.55	1.55	.35	.90
Sure 49-30	600 (68)	30 seconds/90° (35 seconds/90°)	2 seconds/90°	50% (2)	50% (2)	.65	.70	.30	.35
Sure 100-10	1,200 (136)	10 seconds/90° (12 seconds/90°)	5 seconds/90° (max) +	25% (1)	25% (1)	1.90	2.90	.90	1.35
Sure 100-30	1,200 (136)	30 seconds/90° (35 seconds/90°)	7 seconds/90° (max) +	50% (2)	50% (2)	.65	.95	.35	.45
Sure 150-15	1,800 (136)	15 seconds/90° (18 seconds/90°)	5 seconds/90° (max) +	25% (1), (2)	25% (1), (2)	1.90	2.90	.90	1.35
* (N.L.A.) — No Load Ampere (L.R.A.) — Locked Rotor Ampere (1) — Open/Close Service (2) — Open/Close or Modulating Service									

* (N.L.A.) — No Load Ampere ** (CF) — Consult Factory

(L.R.A.) — Locked Rotor Ampere (1) — Open/C + — Approximate, Based on Load

24 VAC

SUREPOWR

							Current Ratings		
94	Model	Output Torque	Electrical Speed of	Spring Speed	Duty Cycle Rating	24	VAC		
MO		Inch Pounds (N.m)	Operation — 60 Hz. (50 Hz.)	of Operation	24 VAC	N.L.A.*	L.R.A.*		
SUREF	Sure 49-30	600 (68)	30 seconds/90° (35 seconds/90°)	2 seconds/90°	25% (2)	4.50	5.00		

12 & 24 VDC

							Current	Ratings	Current	Ratings
æ	Model	Output Torque	Electrical Speed	Spring Speed	Duty Cycle Rating	Duty Cycle Rating	12 VDC		24 VDC	
SUREPOW		Inch Pounds (N.m)	of Operation	of Operation	12 VDC	24 VDC	N.L.A.*	L.R.A.*	N.L.A.*	L.R.A.*
	Sure 49-5	600 (68)	5 seconds/90°	2 seconds/90° (1)	50% (1)	50%	1.00	22.00	1.00	12.30

Limit Switches (Sure 24 & 25)

Standard: Two-single pole, double throw type (SPDT) with an option: for 2 or 4 additional

Limit Switches (24 VDC Models)

Ratings: UL and CSA listed. MIL-PRF-8805 Qualified Listing 25 amp at 277 VAC; 1 H.P. at 125 VAC; 2 H.P. at 250 VAC

Isolation Relays

To operate multiple actuators in parallel from a single signal requires isolating relays in the field wiring. Consult factory. Limit Switches (Sure 49, 100 & 150)

Standard: Four-single pole, double throw type (SPDT) with an option: for 2 additional

Ratings: UL and CSA listed.

15 amp & 1/2 H.P. at 125 or 250 VAC; 1/2 amp at 125 VDC; 1/4 amp at 250 VDC; Lamp Load - 5 amp at 120 VAC

Optional: All double pole, double throw type (DPDT).

Ratings: UL and CSA listed. 10 amp at 125/250 VAC (form ZZ); 1/2 H.P. at 125 VDC; 3/4 H.P. at 250 VAC

Heater

PTC (Positive Temperature Coefficient) Heater Standard in all A. C. Voltage Models

Duty Cycle

The percentage of time the electric motor is energized vs. the time it is at rest, in reversing duty and with the actuator running at it's rated load - maximum published torque.

Standard Modulating Duty Rating

- 12 motor starts (corrections) per minute.
- At the rated duty cycle for that model. With the speed of operation a minimum
- of 15 seconds for 90° or slower.
- With positioning accuracy of (+/-) 1% of total span.