

Sure 49

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 use 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

Standard: -40°F to +150°F
-40°C to +65°C

Optional: -60°F to +150°F
-50°C to +65°C

Optional: Compliance to NFPA 130, capable of operation after exposure to ambient temperature of 482°F (250°C) for a minimum of 1 hour.



Voltage

115 VAC, 1 Phase, 50/60 Hz.
230 VAC, 1 Phase, 50/60 Hz.
24 VAC, 1 Phase, 50/60 Hz.
12VDC, 24VDC



Torque Range

600 pound inches spring end
(68 newton meters)



Speed Range

5, 15 & 30 seconds for 90° revolution, motor operation

2 to 5 seconds, spring operation

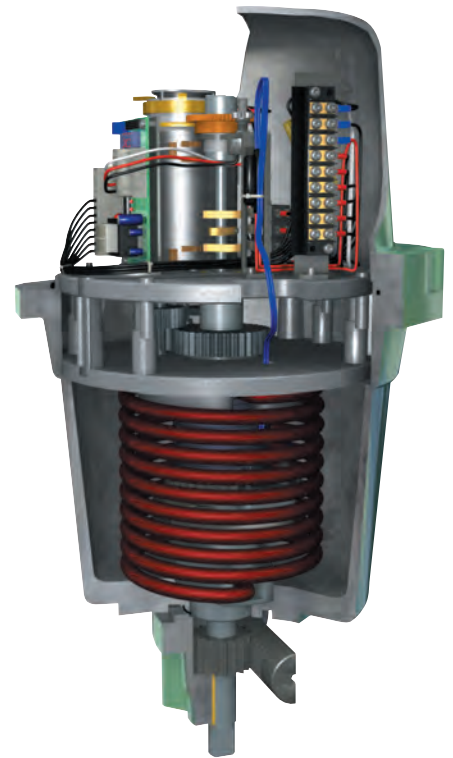


Spring

Helical torsion spring, spring steel, XYLAN® coated

Special Features

AC Voltages
4 – SPDT Switches, PTC Heater, Motor Brake
DC Voltages
2 – SPDT (High Current) Switches, PTC Heater, Motor Brake



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

SUREPOWR	Model	Output Torque Inch Pounds (N.m)	Electrical Speed of Operation — 60 Hz. (50 Hz.)	Spring Speed of Operation	Duty Cycle Rating 115 VAC	Duty Cycle Rating 220 VAC	Current Ratings 115 VAC		Current Ratings 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°
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	

* (N.L.A.) — No Load Ampere (L.R.A.) — Locked Rotor Ampere (1) — Open/Close Service (2) — Open/Close or Modulating Service
 ** (CF) — Consult Factory + — Approximate, Based on Load

24 VAC

SUREPOWR	Model	Output Torque Inch Pounds (N.m)	Electrical Speed of Operation — 60 Hz. (50 Hz.)	Spring Speed of Operation	Duty Cycle Rating 24 VAC	Current Ratings 24 VAC	
						N.L.A.*	L.R.A.*
						Sure 49-30	600 (68)

24 VDC

SUREPOWR	Model	Output Torque Inch Pounds (N.m)	Electrical Speed of Operation — 60 Hz. (50 Hz.)	Spring Speed of Operation	Duty Cycle Rating 115 VAC	Duty Cycle Rating 230 VAC	Current Ratings 12 VDC		Current Ratings 24 VDC	
							N.L.A.*	L.R.A.*	N.L.A.*	L.R.A.*
							Sure 49-5	600 (68)	5 seconds/90° (6 seconds/90°)	2 seconds/90°

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)

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.

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