## SPRING RETURN ELECTRIC

## Not Available With Manual Override



| NEMA 4/6/7 Enclosure |
| :---: |
| Approvals |
| A.C. Models Only <br> Canadian Standards Association <br> CSA NRTL/C—Enclosure 4 <br> CSA NRTL/C—Class I, Divisions 1 \& 2, <br> Groups C \& D <br> CSA NRTL/C—Class II, Divisions 1 \& 2, <br> Groups E, F \& G <br> CSA NRTL/C—Approved to UL standard <br> No. 429, Electrically <br> Operated Valves <br> CSA NRTL/C—Approved to UL <br> Standard No. 1203, <br> Electrical Equipment for use <br> in Explosion - proof <br> And Dust - Innition - proof <br> Hazardous (Classified) <br> Locations |



## SPRING RETURN ELECTRIC

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



## 24 VAC

| $\begin{aligned} & \sim \\ & 0 \\ & 0 \\ & 0 \\ & \frac{0}{3} \\ & \omega \end{aligned}$ | Model | Output Torque Inch Pounds (N.m) | Electrical Speed of Operation - $60 \mathrm{~Hz}(50 \mathrm{~Hz})$ | Spring Speed of Operation | Duty Cycle Rating 24 VAC | Current Ratings 24 VAC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N.LA. ${ }^{\text {. }}$ | L.R.A. |
|  | Sure 49-30 | 600 (68) | $\begin{gathered} 30 \text { seconds } / 90^{\circ} \\ \left(35 \text { seconds } / 90^{\circ}\right) \end{gathered}$ | 2 seconds/90 ${ }^{\circ}$ | $\begin{gathered} 25 \% \\ (2) \end{gathered}$ | 4.50 | 5.00 |

## 12 \& 24 VDC

| Model | Output Torque <br> Inch Pounds (N.m) | Electrical Speed <br> of Operation | Spring Speed <br> of Operation | Duty Cycle Rating <br> 12 VDC | Duty Cycle Rating <br> 24 VDC |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sure 49-5 | $600(68)$ | 5 seconds $/ 90^{\circ}$ | 2 seconds $/ 90^{\circ}$ <br> $(1)$ | $50 \%$ <br> $(1)$ | $50 \%$ |


| Current Ratings <br> 12 VDC |  | Current Ratings <br> 24 VDC |  |
| :---: | :---: | :---: | :---: |
| N.LA. $^{*}$ | LR.A.* | N.L.A. | LR.A.* $^{*}$ |
| 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 $250 \mathrm{VAC} ;$
$1 / 2 \mathrm{amp}$ at $125 \mathrm{VDC} ; 1 / 4 \mathrm{amp}$ 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 $125 / 250 \mathrm{VAC}$ (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 $90^{\circ}$ or slower.
- With positioning accuracy of (+/-) $1 \%$ of total span.

