

S Series

Spring Return Fail-safe Electric Valve Actuator

Electrical Data



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1. S-500 to 3600, ON/OFF & Floating Control, 1PH, 30% & 50% duty cycle

1.1 24VAC/DC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current DC / 60 / 50 Hz	Running Time DC / 60 / 50 Hz	Return Time	Lock Current DC / 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	3.5 / 4.2 / 4.3	8 / 8 / 8	5	25.6 / 25.6 / 25.6
S-1300	130	1150	130	6.9 / 8.2 / 8.4	8 / 8 / 8	4	85.0 / 85.0 / 85.0
S-2000	200	1770	130	8.6 / 10.0 / 10.0	13 / 13 / 13	4	85.0 / 85.0 / 85.0
S-2600	260	2300	130	8.6 / 10.0 / 10.0	16 / 16 / 16	4	85.0 / 85.0 / 85.0
S-3600	360	3185	130	8.6 / 10.3 / 10.4	24 / 24 / 23	8	85.0 / 85.0 / 85.0

1.2 110-120VAC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	1.3 / 1.7	8 / 9	3	3.1 / 3.4
S-1300	130	1150	130	4.0 / 2.5	8 / 9	10	4.9 / 4.9
S-2000	200	1770	130	3.7 / 2.5	13 / 15	15	4.9 / 4.9
S-2600	260	2300	130	3.7 / 2.5	15 / 18	19	4.9 / 4.9
S-3600	360	3185	130	2.4 / 2.2	22 / 27	24	5.2 / 5.4

1.3 110-120VAC, Floating Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	1.3 / 1.7	8 / 9	3	3.1 / 3.4
S-1300	130	1150	130	4.0 / 2.5	8 / 9	10	4.9 / 4.9
S-2000	200	1770	130	3.7 / 2.5	13 / 15	15	4.9 / 4.9
S-2600	260	2300	130	3.7 / 2.5	15 / 18	19	4.9 / 4.9

1.4 110-120VAC, Modulating Control

50% & 30% duty cycle

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	1.0 / 1.3	7 / 9	3	2.0 / 2.2
S-1300	130	1150	130	3.8 / 6.9	7 / 9	8	11.0 / 11.5
S-2000	200	1770	130	3.8 / 6.9	11 / 13	12	11.0 / 11.5
S-2600	260	2300	130	3.8 / 6.9	14 / 17	12	11.0 / 11.5

1.5 220-240VAC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.7 / 0.6	8 / 9	3	1.1 / 1.2
S-1300	130	1150	130	2.0 / 1.4	8 / 9	10	2.4 / 2.4
S-2000	200	1770	130	2.0 / 1.4	13 / 15	15	2.4 / 2.4
S-2600	260	2300	130	2.0 / 1.4	15 / 18	19	2.4 / 2.4
S-3600	360	3185	130	1.1 / 1.0	22 / 27	23	2.4 / 2.5

1.6 220-240VAC, Floating Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.7 / 0.6	8 / 9	3	1.1 / 1.2
S-1300	130	1150	130	2.0 / 1.4	8 / 9	10	2.4 / 2.4
S-2000	200	1770	130	2.0 / 1.4	13 / 15	15	2.4 / 2.4
S-2600	260	2300	130	2.0 / 1.4	15 / 18	19	2.4 / 2.4

1.7 220-240VAC, Modulating Control

50% & 30% duty cycle

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.7 / 0.8	7 / 9	3	1.3 / 1.5
S-1300	130	1150	130	2.1 / 3.8	7 / 9	8	5.6 / 5.7
S-2000	200	1770	130	2.1 / 3.8	11 / 13	12	5.6 / 5.7
S-2600	260	2300	130	2.1 / 3.8	14 / 17	12	5.6 / 5.7

2. S-500 to 2600, 3PH

2.1 220-240VAC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.5 / 0.6	8 / 9	5	1.1 / 1.1
S-1300	130	1150	130	0.8 / 0.9	8 / 9	7	2.1 / 2.1
S-2000	200	1770	130	0.8 / 0.9	13 / 15	11	2.1 / 2.1
S-2600	260	2300	130	0.8 / 0.9	17 / 20	14	2.1 / 2.1

2.2 380-415VAC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.3 / 0.4	8 / 9	5	0.7 / 0.7
S-1300	130	1150	130	0.5 / 0.5	8 / 9	8	1.2 / 1.3
S-2000	200	1770	130	0.5 / 0.6	13 / 15	13	1.2 / 1.3
S-2600	260	2300	130	0.5 / 0.6	17 / 19	16	1.2 / 1.3

2.3 440-480VAC, ON/OFF Control

50% duty cycle for -30°C to +40°C / -40°C to +40°C (optional)

30% duty cycle for 41°C to 65°C

Model	Torque		Motor Power	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Return Time	Lock Current 60 / 50 Hz
	N·m	in·lb	Watt	Amp	Sec / 90°	Sec / 90°	Amp
S-500	50	445	50	0.2 / 0.3	8 / 9	5	0.4 / 0.5
S-1300	130	1150	130	0.5 / 0.6	8 / 9	8	1.4 / 1.5
S-2000	200	1770	130	0.6 / 0.7	12 / 15	13	1.4 / 1.5
S-2600	260	2300	130	0.6 / 0.7	16 / 19	16	1.4 / 1.5



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