

# CM

SERIES

## Quarter-turn

Electric Valve Actuators

The logo for Sun Yeh, featuring a stylized green 'S' followed by the word 'UNYEH' in blue. The 'Y' and 'E' are connected, and the 'H' has a white arrow pointing to the right.

## Electrical Data



**SUN YEH ELECTRICAL IND. CO., LTD.**

SY06-GA01A1-EN

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# Quarter-turn Electric Valve Actuators Electrical Data

## 1. CM-100 to 600, 1PH, 30% duty cycle

### 1.1 24VAC/DC, Floating Control, 30% duty cycle

Model	Torque		Motor Power	Power Consumption DC / 60 / 50 Hz	Running Current DC / 60 / 50 Hz	Running Time DC / 60 / 50 Hz	Start Current DC / 60 / 50 Hz
	Nm	in-lb	W	W	Amp	Sec / 90°	Amp
CM-100	100	885	60	90 / 100 / 110	3.7 / 4.4 / 4.6	13 / 14 / 13	10.0 / 12.0 / 12.0
CM-200	200	1770	60	80 / 90 / 90	3.3 / 4.0 / 4.1	28 / 30 / 29	10.0 / 12.0 / 12.0
CM-300	300	2655	80	260 / 300 / 320	10.6 / 14.6 / 15.7	19 / 18 / 24	16.0 / 32.0 / 32.0
CM-400	400	3540	80	300 / 260 / 270	12.1 / 12.6 / 13.2	25 / 20 / 25	16.0 / 32.0 / 29.0
CM-500	500	4425	80	220 / 250 / 250	9.0 / 12.4 / 12.5	28 / 25 / 27	15.0 / 30.0 / 28.0
CM-600	600	5310	80	230 / 270 / 270	9.2 / 13.3 / 13.5	35 / 31 / 36	13.0 / 36.0 / 34.0

- The running current is measured at max torque.

### 1.2 24VAC/DC, Modulating Control, 30% duty cycle

Model	Torque		Motor Power	Power Consumption DC / 60 / 50 Hz	Running Current DC / 60 / 50 Hz	Running Time DC / 60 / 50 Hz	Start Current DC / 60 / 50 Hz
	Nm	in-lb	W	W	Amp	Sec / 90°	Amp
CM-100	100	885	60	100 / 100 / 110	3.8 / 4.5 / 4.7	13 / 14 / 14	11.0 / 13.0 / 14.0
CM-200	200	1770	60	90 / 100 / 100	3.5 / 4.2 / 4.2	28 / 30 / 29	11.0 / 12.0 / 13.0
CM-300	300	2655	80	310 / 290 / 300	12.7 / 14.0 / 14.8	21 / 17 / 21	16.0 / 32.0 / 30.0
CM-400	400	3540	80	320 / 260 / 260	13.2 / 12.7 / 12.5	28 / 20 / 21	16.0 / 30.0 / 28.0
CM-500	500	4425	80	220 / 250 / 250	9.1 / 12.4 / 12.5	28 / 25 / 28	15.0 / 30.0 / 27.0
CM-600	600	5310	80	240 / 270 / 270	9.6 / 13.0 / 13.2	36 / 33 / 35	15.0 / 30.0 / 27.0

# Quarter-turn Electric Valve Actuators Electrical Data

## 1.3 110-120VAC, Floating Control, 30% duty cycle

Model	Torque		Motor Power	Power Consumption	Running Current	Running Time	Start Current
	Nm	in-lb		60 / 50 Hz	60 / 50 Hz	60 / 50 Hz	60 / 50 Hz
			W	W	Amp	Sec / 90°	Amp
CM-100	100	885	50	160 / 180	1.3 / 1.6	10 / 12	5.0 / 5.0
CM-200	200	1770	60	170 / 200	1.4 / 1.9	23 / 27	6.0 / 6.0
CM-300	300	2655	180	370 / 460	3.4 / 5.1	12 / 14	14.0 / 15.0
CM-400	400	3540	180	360 / 470	3.4 / 5.2	16 / 19	13.0 / 14.0
CM-500	500	4425	180	370 / 470	3.4 / 5.1	20 / 24	14.0 / 14.0
CM-600	600	5310	180	370 / 460	3.4 / 5.1	24 / 28	14.0 / 14.0

- The running current is measured at max. torque.

## 1.4 110-120VAC, Modulating Control, 30% duty cycle

Model	Torque		Motor Power	Power Consumption	Running Current	Running Time	Start Current
	Nm	in-lb		60 / 50 Hz	60 / 50 Hz	60 / 50 Hz	60 / 50 Hz
			W	W	Amp	Sec / 90°	Amp
CM-100	100	885	50	180 / 200	1.5 / 1.7	10 / 12	5.0 / 5.0
CM-200	200	1770	60	180 / 200	1.5 / 1.9	23 / 27	6.0 / 6.0
CM-300	300	2655	180	370 / 460	3.4 / 5.1	12 / 14	14.0 / 15.0
CM-400	400	3540	180	370 / 470	3.4 / 5.1	16 / 19	13.0 / 14.0
CM-500	500	4425	180	370 / 470	3.4 / 5.1	19 / 23	14.0 / 14.0
CM-600	600	5310	180	370 / 470	3.4 / 5.0	24 / 29	14.0 / 14.0

- The running current is measured at max. torque.

# Quarter-turn Electric Valve Actuators Electrical Data

## 1.5 220-240VAC, Floating Control, 30% duty cycle

Model	Torque		Motor Power W	Power Consumption	Running Current	Running Time	Start Current
	Nm	in-lb		60 / 50 Hz W	60 / 50 Hz Amp	60 / 50 Hz Sec / 90°	60 / 50 Hz Amp
CM-100	100	885	50	170 / 170	0.7 / 0.7	10 / 12	3.0 / 3.0
CM-200	200	1770	60	170 / 180	0.7 / 0.8	23 / 27	3.0 / 3.0
CM-300	300	2655	180	440 / 560	1.9 / 3.3	11 / 14	8.0 / 9.0
CM-400	400	3540	180	470 / 580	2.0 / 3.3	16 / 19	8.0 / 8.0
CM-500	500	4425	180	440 / 550	1.9 / 3.2	19 / 24	8.0 / 8.0
CM-600	600	5310	180	440 / 550	1.9 / 3.2	24 / 29	8.0 / 8.0

- The running current is measured at max. torque.

## 1.6 220-240VAC, Modulating Control, 30% duty cycle

Model	Torque		Motor Power W	Power Consumption	Running Current	Running Time	Start Current
	Nm	in-lb		60 / 50 Hz W	60 / 50 Hz Amp	60 / 50 Hz Sec / 90°	60 / 50 Hz Amp
CM-100	100	885	50	200 / 190	0.8 / 0.8	10 / 12	3.0 / 3.0
CM-200	200	1770	60	170 / 180	0.7 / 0.8	23 / 28	3.0 / 3.0
CM-300	300	2655	180	470 / 580	2.0 / 3.2	11 / 14	8.0 / 9.0
CM-400	400	3540	180	440 / 580	1.9 / 3.3	16 / 19	8.0 / 8.0
CM-500	500	4425	180	440 / 580	1.9 / 3.3	19 / 23	8.0 / 8.0
CM-600	600	5310	180	470 / 600	2.0 / 3.2	24 / 28	8.0 / 8.0

- The running current is measured at max. torque.

**2. CM-100 to 600, 3PH, 30% duty cycle**

**2.1 220 - 240VAC, Floating Control, 30% duty cycle**

Model	Torque		Motor Power W	Power Consumption 60 / 50 Hz	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Start Current 60 / 50 Hz
	Nm	in-lb		W	Amp	Sec / 90°	Amp
CM-100	100	885	50	200 / 300	1.0 / 1.5	10 / 12	2.8 / 2.8
CM-200	200	1770	60	180 / 220	0.9 / 1.2	23 / 27	2.7 / 2.8
CM-300	300	2655	180	330 / 340	1.2 / 1.6	12 / 14	4.7 / 5.0
CM-400	400	3540	180	340 / 350	1.2 / 1.6	16 / 19	4.6 / 5.0
CM-500	500	4425	180	310 / 340	1.2 / 1.6	20 / 23	4.4 / 4.8
CM-600	600	5310	180	330 / 340	1.2 / 1.6	24 / 29	4.5 / 4.8

● The running current is measured at max. torque.

**2.2 380 - 415VAC, Floating Control, 30% duty cycle**

Model	Torque		Motor Power W	Power Consumption 60 / 50 Hz	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Start Current 60 / 50 Hz
	Nm	in-lb		W	Amp	Sec / 90°	Amp
CM-100	100	885	50	200 / 250	0.5 / 0.7	10 / 12	1.6 / 1.6
CM-200	200	1770	60	180 / 190	0.5 / 0.6	23 / 27	1.5 / 1.5
CM-300	300	2655	180	350 / 350	0.7 / 0.8	12 / 14	2.8 / 2.9
CM-400	400	3540	180	350 / 330	0.7 / 0.8	16 / 19	2.7 / 2.8
CM-500	500	4425	180	290 / 330	0.6 / 0.8	20 / 24	2.8 / 2.9
CM-600	600	5310	180	310 / 330	0.6 / 0.8	25 / 29	2.8 / 2.9

● The running current is measured at max. torque.

**2.3 440 - 480VAC, Floating Control, 30% duty cycle**

Model	Torque		Motor Power W	Power Consumption 60 / 50 Hz	Running Current 60 / 50 Hz	Running Time 60 / 50 Hz	Start Current 60 / 50 Hz
	Nm	in-lb		W	Amp	Sec / 90°	Amp
CM-100	100	885	50	200 / 290	0.5 / 0.8	10 / 12	1.6 / 1.7
CM-200	200	1770	60	200 / 210	0.5 / 0.6	23 / 27	1.6 / 1.6
CM-300	300	2655	180	380 / 430	0.7 / 0.9	12 / 14	2.8 / 2.9
CM-400	400	3540	180	390 / 450	0.7 / 0.9	16 / 19	2.7 / 2.8
CM-500	500	4425	180	370 / 420	0.7 / 0.9	20 / 24	2.8 / 2.9
CM-600	600	5310	180	380 / 410	0.7 / 0.9	24 / 29	2.8 / 2.9

● The running current is measured at max. torque



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