



0+1: CW

0+2: CCW

**Main Application:**

Mainly used for Automatic Curtains, Stage Lights, Electric Advertisement, Electric Appliances, Pumps, Scientific & Teaching Devices, etc which needs high torque but low speed.

**Main Features:**

- 1) Shaft diameter is:  $\varnothing 7.0$ mm. Shaft length and shape can be any as customers' needs.
- 2) Reversible. Motor rotation direction can be CW or CCW controlled by capacitor.
- 3) Low lifetime (more than 8000 hours), low noise [less than 42dB(A)], stable running.
- 4) High torque available. If customer doesn't need high torque, we can use permanent magnet which is cheaper. But if customer needs high torque, we can use either plastic magnet (with 30% more torque) or even Nd-Fe-B (with 90% more torque). Please see the details as following chart.
- 5) CE, UL, TUV approved.

**Characteristics (test under room temperature):**

Rated Voltage	(VAC)	12~240 (can be any as needed)															
Rated Frequency	(Hz)	50 or 60 or 50/60															
Input Power	(W)	≤20															
Input Current	(mA)	≤55															
Starting Voltage	(VAC)	≤85% of rated voltage															
Insulation Class	-	E (or any as needed)															
Rated Speed	@ 50Hz	(rpm)	2.5	3.8	5.0	7.5	10	12.0	15	20	25	30	40	50	60	80	110
	@ 60Hz	(rpm)	3.0	4.5	6.0	9.0	12	14.4	18	24	30	36	48	60	72	96	132
Rated Torque @ 50Hz	Permanent Magnet	(Nm)	4.41	3.14	2.55	1.96	1.47	1.32	0.98	0.74	0.64	0.49	0.39	0.29	0.25	0.20	0.14
		(Kgf.cm)	45	32	26	20	15	13.5	10.0	7.5	6.5	5.0	4.0	3.0	2.5	2.0	1.4
	Plastic Magnet	(Nm)	5.88	4.90	3.92	2.45	1.96	1.77	1.37	0.98	0.83	0.74	0.59	0.39	0.34	0.25	0.20
		(Kgf.cm)	60	50	40	25	20	18	14	10	8.5	7.5	6.0	4.0	3.5	2.5	2.0
	Nd-Fe-B Magnet	(Nm)	7.85	5.88	4.90	3.92	2.94	2.55	2.06	1.47	1.18	0.98	0.78	0.59	0.49	0.34	0.29
		(Kgf.cm)	80	60	50	40	30	26	21	15	12	10	8	6	5	3.5	3.0

Remarks: The torque @ 50Hz is 1.2 times of the torque @ 60Hz.

All above performances are from some typical models only. OEM and ODM are all welcome.

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