



## Model : HS209 Single Phase AC Reversible Synchronous Gear Motor

1、Style : 12 poles AC synchronous gear motor

2、Electrical Specification :

Rated Voltage : 24VAC、48VAC、110VAC、220VAC

Frequency : 50/60HZ

Operating Range of Voltage : 85~110% Rated Voltage

Power Consumption :  $5 \pm 0.5$  Watt

Current Consumption :  $30 \pm 5$  Ma

Withstand Voltage : 1500 VAC / 1 Min.

Insulation Resistance : Over 100 mΩ at 500 VDC

3、Mechanical Specification :

Motor Speed : 500, 600 rpm at 50/60HZ

Direction of Rotation : Reversible CW and CCW

Starting Torque : 30 kg-cm at 1rpm

Constant Torque : Approx. 15 kg-cm at 1 rpm

4、General Specification :

Operating Temp. Range :  $-10 \sim +60$  °C

Insulation Class : A105 °C or B class (130 °C)

Temperature Rise : 65 °C Max.

Expectant Lifespan : Approx. 10,000 hours or one year

Net Weight : 280 grams

Lead Wire : Flexible Leads, UL1015/1007

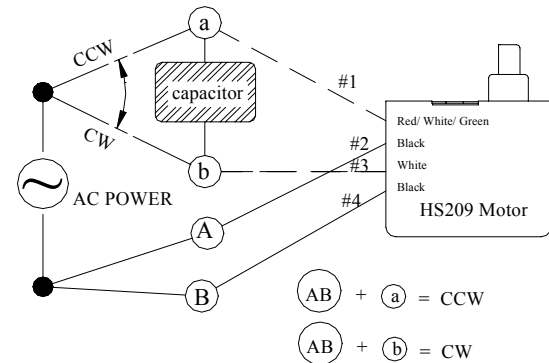
Operating Noise: Approx. 40 db Max. from 30 cm distance

Outline size :  $\phi$  50.0 mm diameter and 42.0 mm height

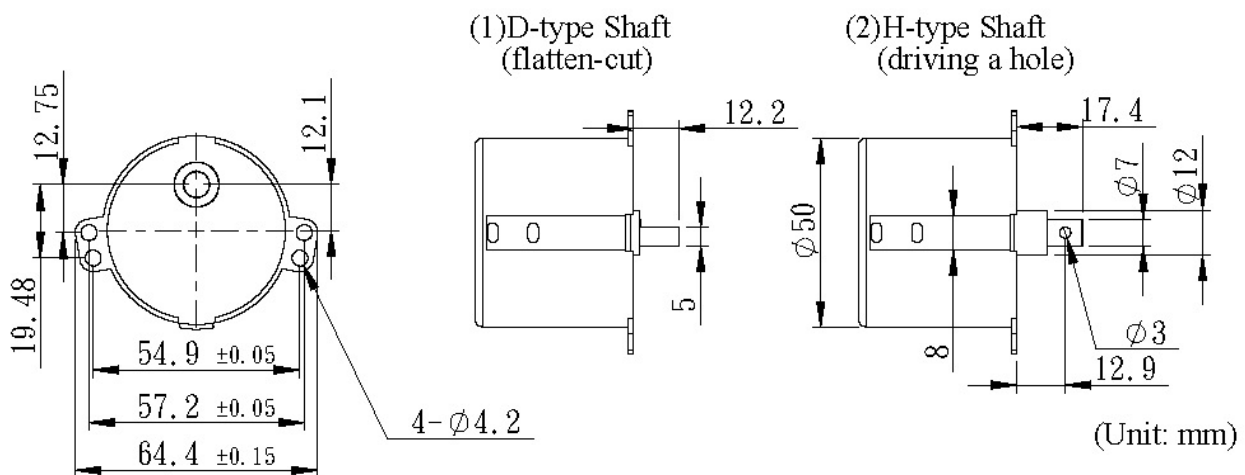


7、Connection Wire Diagram :

\* The rotation direction of the AC synchronous motors can be determined by simply connecting a phrase capacity or/and a switch across the two windings as shown.



5、Dimensional Drawing :



6、Output Speed & Running Torque :

Frequency	Output Speed (RPM)											
	1	2	2.5	4	4.8	6	10	12	16	20	30	50
60 Hz	1	2	2.5	4	4.8	6	10	12	16	20	30	50
50 Hz	0.8	1.7	2	3.3	4	5	8.3	10	14	17	25	42
Running Torque (kgf-cm)	15	12	8	7	6	5	3	2.5	2.2	2	1.5	0.7