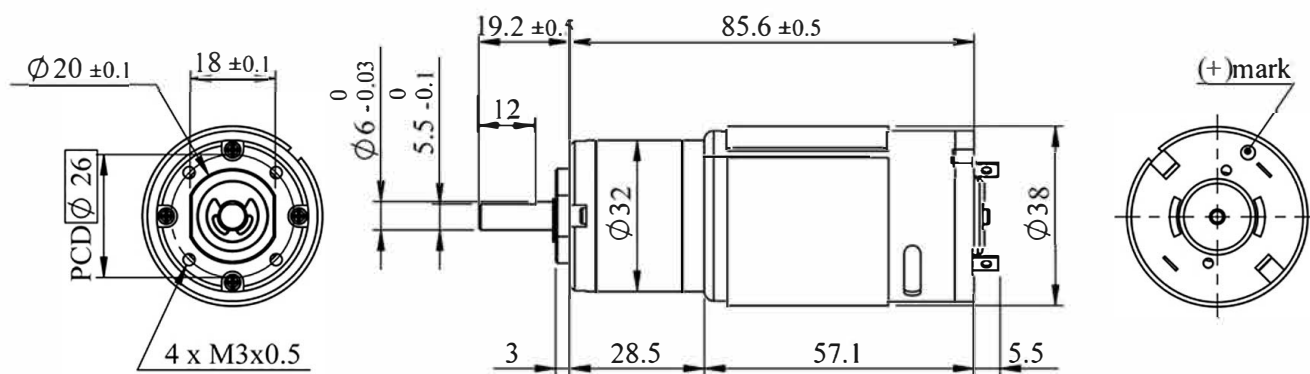


DIRECTION OF ROTATION



SPECIFICATIONS

DC Planetary Gear Brush Motor



(unit:mm)

A. Operating Conditions:

1	Operating Voltage Range	6~12	VDC	4	Operating Temperature	-10~+60	°C
2	Rated Voltage	12	VDC	5	Storage Temperature	-30~+85	°C
3	Rated Load	2.3	kgf-cm	6	Test Position	Horizontal	~

B. Electrical Characteristics:

1	Max. No-load Current	0.52	A	6	Max. Stall Current	20	A
2	No-load Speed	612 $\pm$ 61	rpm	7	Insulation Resist.(500V)	20	M Ω
3	Rated-load Current	2.0	A	8	Dielectric Strength	250	VAC
4	Rated-load Speed	540 $\pm$ 54	rpm	9	Motor Brush Type	Graphite	~
5	Min. Stall Torque	16	kgf-cm	10	Output Power at Max.Eff.	13	W

C. Mechanical Characteristics:

1	Gear Type	Planetary	~	7	Max. Shaft Radial Load	3.5	kgf
2	Gear Ratio	289/3969	~	8	Max. Shaft Runout	0.05	mm
3	Gear Material	Metal	~	9	Max. Shaft End Play	0.30	mm
4	Rated Tolerance Torque	10	kgf-cm	10	Bearing Type	Dual Ball	~
5	Moment. Tolerance Torque	20	kgf-cm	11	Net Weight	330 $\pm$ 20	grams
6	Max. Shaft Axial Load	2.5	kgf				