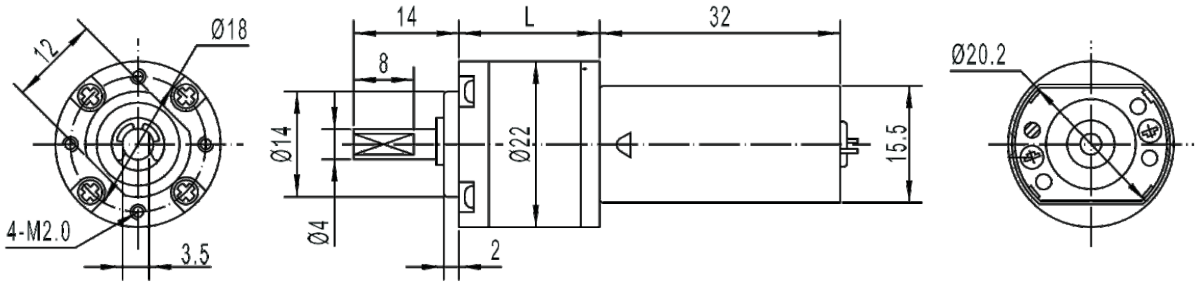
GMP22-180SH

22mm planetary gearbox plus 180 permanent magnet DC motor

Module	0.3				
Rated torque (kg.cm)	3.0 kg.cm max				
Max momentary tolerance torque (kg.cm)	6.0 kg.cm max				
Reduction ratio	1/4 1/4.75	1/16 1/19 1/22.6	1/64 1/76 1/90 1/107	1/172、1/224 1/256、1/304 1/361、1/428.7 1/509	1/1024
Number of gear stages	1	2	3	4	5
L (mm)	12.5	16	19.5	23	26.5

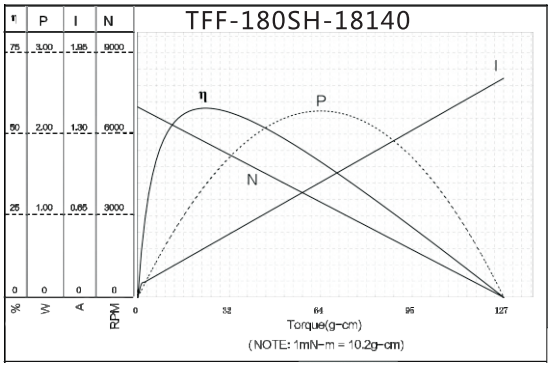
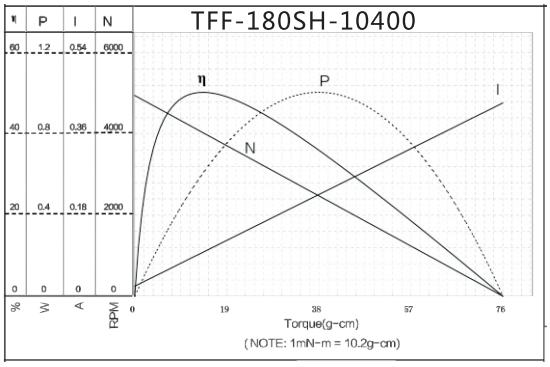


Weight: 90g(Approx)

Unit(mm)

Gear Motor Technical Data

Reduction ratio		16	64	84	107	224	304	361	428.7	1024	
6.0V	No-load speed(rpm)	430	105	80	65	30	22	18	16	6	
	Rated speed(rpm)	370	90	70	55	26	19	16	14	5	
	Rated torque(kg.cm)	0.2	0.7	1.0	1.2	2.0	2.8	3.0	3.0	3.0	
12.0V	No-load speed(rpm)	300	75	60	45	21	15	13	11	5	
	Rated speed(rpm)	270	65	50	40	19	14	12	10	4	
	Rated torque(kg.cm)	0.12	0.35	0.5	0.6	1.0	1.4	1.7	2.0	3.0	

Motor Technical Data

Motor model	Rated voltage	No-load		Rated				Stall	
		Speed	Current	Speed	Torque	Current	Power	Torque	Current
	VDC	r/min	mA	r/min	g.cm	mA	W	g.cm	A
TFF-180SH-18140	6.0	7000	90	5900	20	350	1.21	127	1.80
TFF-180SH-10400	12.0	5000	20	4300	10	70	0.44	71	0.42