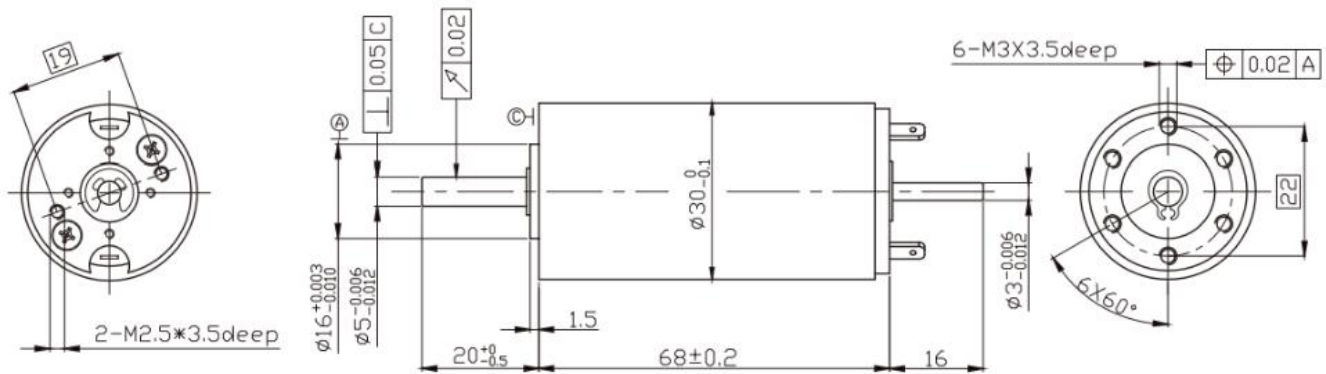


**Φ30mm Coreless Brushed DC Motor (Φ30 L68.5mm) 80-210watt****Motor Data****Values at Nominal**

		30681282	30681885	30682484	30684888
1 Nominal voltage	V	12	18	24	48
2 Nominal speed	rpm	7667	7820	7560	7920
3 Nominal current(Max.continuous current)	A	4.10	3.90	3.54	1.87
4 Nominal torque(Max.continuous torque)	mNm	52.04	73.64	92.60	92.93

At No Load

5 No-load speed	rpm	8200	8500	8400	8800
6 No-load current	mA	353	240	130	80

At Max.Efficiency

7 Max. efficiency	%	85.0	86.1	88.0	87.1
8 Speed	rpm	7626	7948	7896	8228
9 Current	A	4.388	3.214	2.174	1.245
10 Torque	mNm	56.0	59.8	55.6	60.4

At Max.Output Power

11 Max. output power	W	171.9	204.8	203.6	214.1
12 Speed	rpm	4100	4250	4200	4400
13 Current	A	29.2	23.1	17.2	9
14 Torque	mNm	400.3	460.3	463.0	464.6

At Stall

15 Stall current	A	58.0	46.0	34.2	18.0
16 Stall torque	mNm	800.7	920.5	926.0	929.3

Characteristics

17 Terminal resistance	Ω	0.21	0.39	0.70	2.67
18 Terminal inductance	mH	0.036	0.071	0.126	0.506
19 Torque constant	mNm/A	13.89	20.12	27.18	51.86
20 Speed constant	rpm/V	683.3	472.2	350.0	183.3
21 Speed / torque gradient	rpm/mNm	10.2	9.2	9.1	9.5
22 Mechanical time constant	ms	3.75	3.38	3.32	3.47
23 Rotor inertia	gcm ²	35.00	35.00	35.00	35.00

Mechanical Data

24 Bearing type	Ball bearing
25 Axial clearance under axial load	0-0.1mm
26 Radial clearance	≤0.14mm
27 Number of pole pairs	1
28 Number of phases	13
29 Typical noise level	≤55dB
30 Weight	265g

System

Optional Parts:

- Planetary gearhead
- Photoelectric encoder
- Magnetoelectric encoder
- Brake

