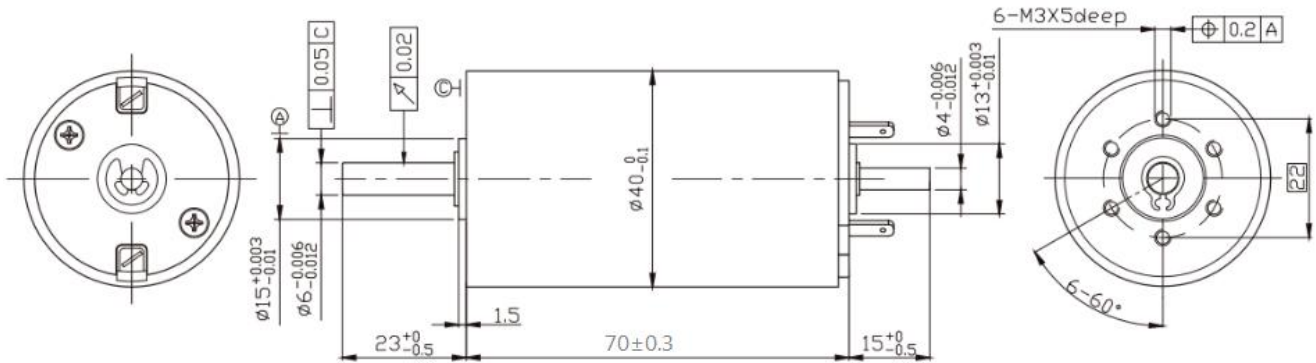




Φ40mm Coreless Brushed DC Motor (Φ40 L70mm) 130-480watt



Motor Data

Order number

Values at Nominal

		40701282	40702476	40703675	40704876	40704822
1 Nominal voltage	V	12	24	36	48	48
2 Nominal speed	rpm	7585	7030	6900	6992	1606
3 Nominal current(Max.continuous current)	A	21.09	6.2	4.33	3.37	0.85
4 Nominal torque(Max.continuous torque)	mNm	161.41	181.25	189.36	196.86	172.37

At No Load

5 No-load speed	rpm	8200	7600	7500	7600	2200
6 No-load current	mA	500	180	180	100	18

At Max.Efficiency

7 Max. efficiency	%	89	90.8	88.6	90.4	85.3
8 Speed	rpm	7749	7258	7163	7258	2046
9 Current	A	8.998	3.794	2.512	1.941	0.234
10 Torque	mNm	118.4	108.8	106.5	110.7	44.7

At Max.Output Power

11 Max. output power	W	462	480.8	464.8	489.6	37
12 Speed	rpm	4100	3800	3750	3800	1100
13 Current	A	77.8	40.3	26.1	20.6	2
14 Torque	mNm	1076.1	1208.3	1183.5	1230.4	319.2

At Stall

15 Stall current	A	155	80.5	52	41	3.1
16 Stall torque	mNm	2152.1	2416.7	2367	2460.7	638.4

Characteristics

17 Terminal resistance	Ω	0.08	0.3	0.69	1.17	15.5
18 Terminal inductance	mH	0.016	0.083	0.180	0.340	4.080
19 Torque constant	mNm/A	13.93	30.09	45.68	60.16	207.1
20 Speed constant	rpm/V	683.3	316.7	208.3	158.3	45.8
21 Speed / torque gradient	rpm/mNm	3.8	3.1	3.2	3.1	3.4
22 Mechanical time constant	ms	5.60	4.42	4.30	4.05	4.31
23 Rotor inertia	gcm ²	140.23	134.1	137.14	125.21	119.52

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	≤45dB
30 Weight	485g

System

Optional Parts:

- Planetary gearhead
- Photoelectric encoder
- Magnetoelectric encoder
- Brake

