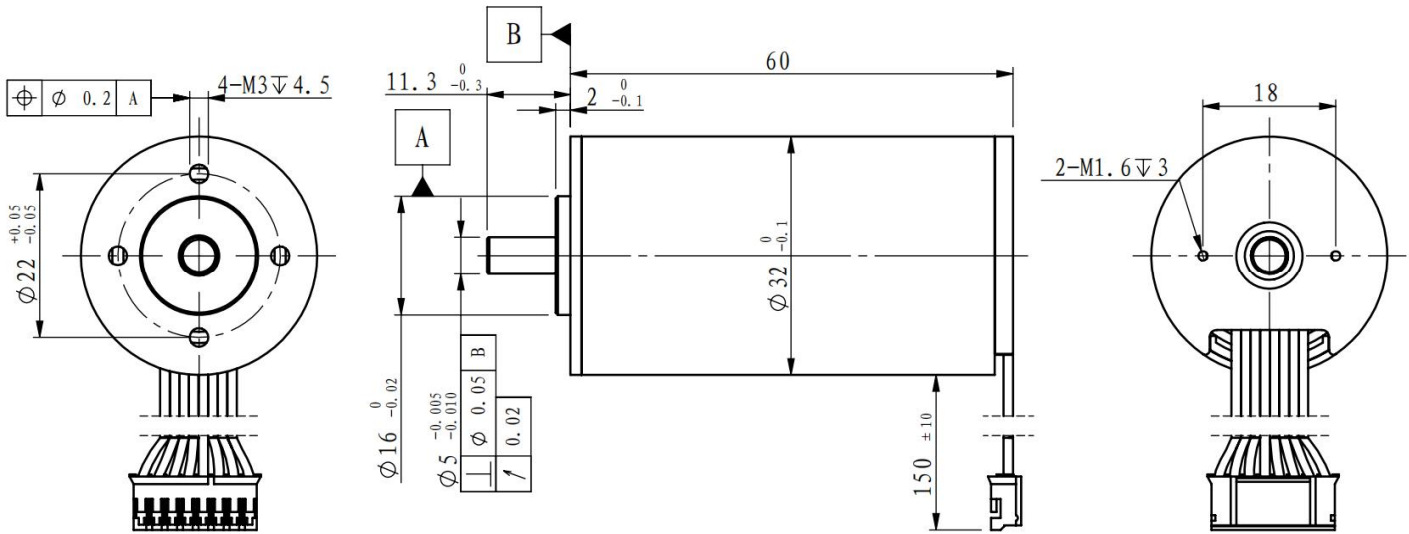


Ø32mm Coreless Brushless motor (Ø32mm L60mm) 50watt

Standard series (high cost performance)



Motor Data

Values at nominal voltage	Order number					
		32601209	32601809	32602409	32603609	32604809
1 Nominal voltage	V	12	18	24	36	48
2 No-load speed	rpm	9029	9008	9100	9081	9007
3 No-load current	mA	240	160	120	100	70
4 Nominal speed	rpm	7765	7810	7872	7946	7881
5 Nominal torque (Max. continuous torque)	mNm	54.59	54.95	55.97	53.95	55.86
6 Nominal current (Max. continuous current)	A	4.57	3.07	2.36	1.54	1.18
7 Stall torque	mNm	389.91	407.04	414.57	431.60	446.84
8 Stall current	A	31.20	21.70	16.70	11.60	8.92
9 Max. efficiency	%	83	84	84	82	83

Characteristics

10 Terminal resistance	Ω	0.38	0.83	1.44	3.10	5.38
11 Terminal inductance	mH	0.10	0.27	0.42	1.10	1.55
12 Torque constant	mNm/A	12.59	18.90	25.00	37.53	50.49
13 Speed constant	rpm/V	752	502	379	252	188
14 Speed / torque gradient	rpm/mNm	23	22	22	21	20
15 Mechanical time constant	ms	3.4	3.4	3.4	3.4	3.4
16 Rotor inertia	gcm ²	16	16	16	16	16

Mechanical data

17 Ambient temperature	-40...+100°C
18 Max. winding temperature	+155°C
19 Bearing type	ball bearing
20 Max. speed	25000rpm
21 Axial clearance under axial load	(8N 0mm) 8N max 0.2mm
22 Radial clearance	ball bearing preloaded
23 Number of pole pairs	1
24 Number of phases	3
25 Weight	230g

32604809 performance curve

