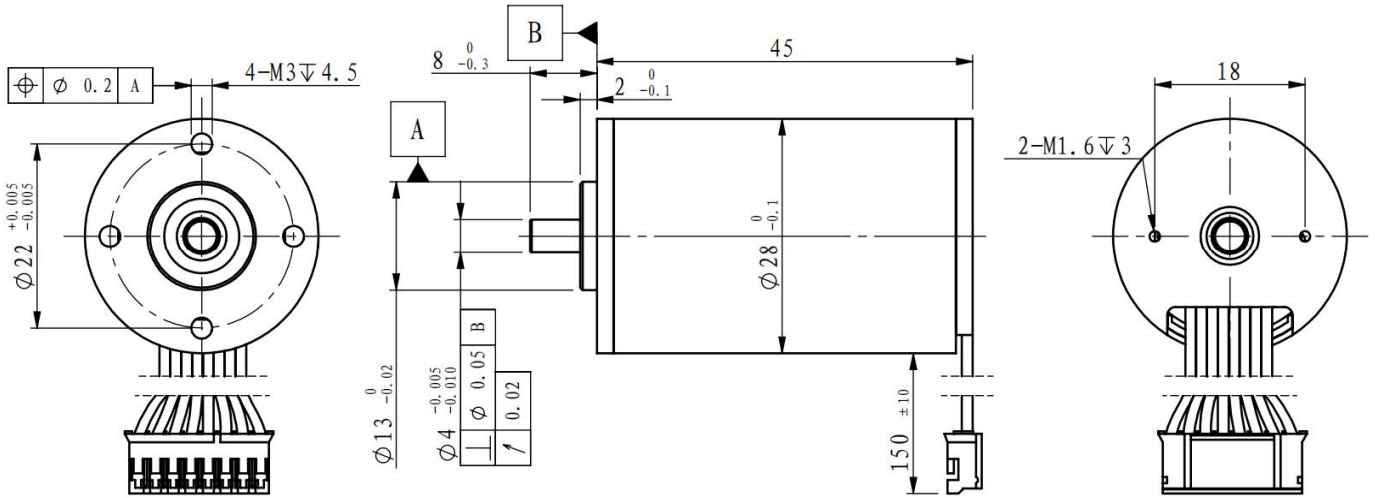




Ø28mm Coreless Brushless motor (Ø28mm L45mm)

Standard series (high cost performance)

25watt



Motor Data

Order number

Values at nominal voltage

		28451212	28451812	28452412	28453612	28454812
1 Nominal voltage	V	12	18	24	36	48
2 No-load speed	rpm	12035	12007	12100	11989	12055
3 No-load current	mA	260	170	130	100	70
4 Nominal speed	rpm	10531	10566	10648	10550	10608
5 Nominal torque (Max. continuous torque)	mNm	18.43	17.80	18.28	18.07	18.53
6 Nominal current (Max. continuous current)	A	2.23	1.43	1.11	0.74	0.57
7 Stall torque	mNm	147.43	148.35	152.32	150.59	154.42
8 Stall current	A	16.00	10.70	8.30	5.45	4.20
9 Max. efficiency	%	76	76	77	75	76

Characteristics

10 Terminal resistance	Ω	0.75	1.68	2.89	6.61	11.43
11 Terminal inductance	mH	0.10	0.24	0.41	0.83	1.65
12 Torque constant	mNm/A	9.37	14.09	18.64	28.15	37.39
13 Speed constant	rpm/V	1003	667	504	333	251
14 Speed / torque gradient	rpm/mNm	82	81	79	80	78
15 Mechanical time constant	ms	4.6	4.6	4.6	4.6	4.6
16 Rotor inertia	gcm ²	5.1	5.1	5.1	5.1	5.1

Mechanical data

17 Ambient temperature	-40...+100°C
18 Max. winding temperature	+155°C
19 Bearing type	ball bearing
20 Max. speed	30000rpm
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	125g

28454812 performance curve

