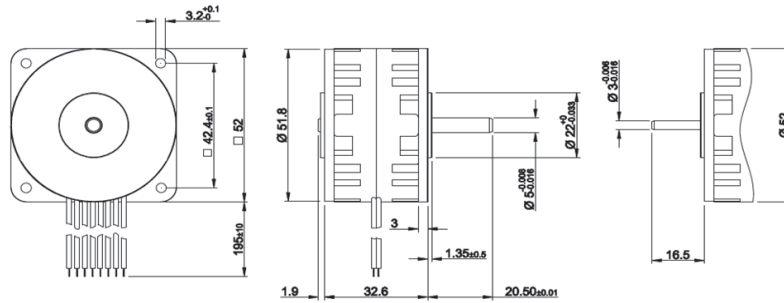


Disc Magnet Stepper Motors

P532

Ø52mm

205 mNm



Dimensions in mm

P532 258 xxx 10

P532 258 xxx 84

P532

Electrical Data	P532 258 012 10/84 (series)	P532 258 004 10/84 (series)	P532 258 004 10/84 (parallel)	P532 258 0.7 10/84 (parallel)	
1 Resistance per Phase, typ	27.0	8.8	2.2	0.4	Ohms
2 Inductance per Phase, typ	64.0	20.0	5.0	0.7	mH
3 Nominal Phase Current (2 ph. On)	0.40	0.70	1.40	3.70	A
4 Nominal Phase Current (1 ph. On)	0.56	1.00	2.00	5.20	A
5 Back EMF Amplitude	21.00	12.00	6.00	2.30	V/kstep/s
Coil independent parameters					
6 Holding Torque, nominal current		205 (29)			mNm (oz-in)
7 Holding Torque, 1.5x nominal current (1)		300 (42.5)			mNm (oz-in)
8 Detent Torque		40 (5.67)			mNm (oz-in)
9 Rotor Inertia		12.000			kgm ² x 10 ⁻⁷
10 Step Angle	4	3.6	3.6	3.6	Degree
11 Absolute Accuracy 2 ph. On, Full step mode			+/- 5%		% Full Step
12 Steps Per Revolution		100			
13 Ambient Temperature Range (operating)		-20 to 50 (-4 to 122)			°C (°F)
14 Maximum Coil Temperature		130 (266)			°C (°F)
15 Thermal Resistance Coil-ambient (2)	7	7.3	7.3	7.3	°C/W
16 Natural Resonance Frequency (nominal current)		330			Hz
17 Electrical Time Constant		2.30			ms
18 Angular Acceleration (nominal current)		195,000			rad/s ²
19 Bearing Type		Ball			
20 Dielectric Withstanding Voltage		500 VRMS for 5 seconds (25@5N)			VAC
21 Radial Shaft Play		25@5N			µm
22 Axial Shaft Play		25@5N			µm
23 Maximum Radial Shaft Load		20 (72)			N (oz)
24 Maximum Axial Shaft Load (3)		30 (108)			N (oz)
25 Weight		250 (8.8)			g (oz)
26 Power Rate (nominal current)		35.0			kW/s

(1) Measured with 1 phase ON. The max coil temperature must be respected

(2) Motor unmounted

(3) Shaft must be supported when press-fitting a pulley or pinion

