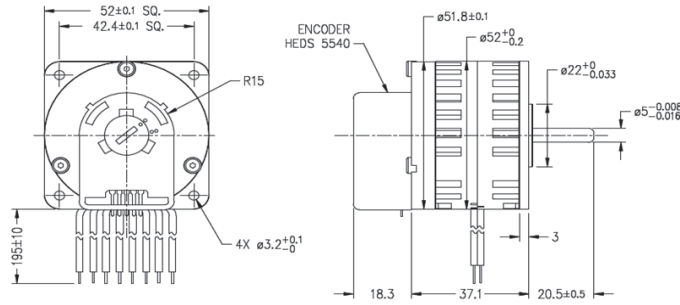


P532 With Encoder

Ø52mm

205 mNm



Dimensions in mm

P532EN

Electrical Data	P532 012 137 HEDS 5540 A14 (series)	P532 004 137 HEDS 5540 A14 (series)	P532 004 137 HEDS 5540 A14 (parallel)	P532 0.7 137 HEDS 5540 A14 (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
<b>Coil independent parameters</b>					
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			45 (6.4)		mNm (oz-in)
9 Rotor Inertia			13.000		kgm <sup>2</sup> x 10 <sup>-7</sup>
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)			350		Hz
17 Electrical Time Constant			1.50		ms
18 Angular Acceleration (nominal current)			171,000		rad/s <sup>2</sup>
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			260 (9.2)		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

