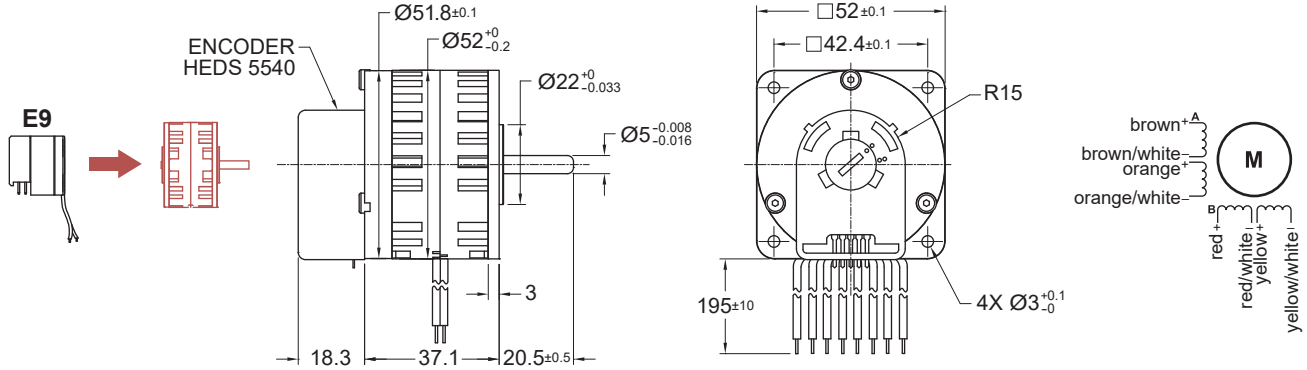


P532 with Encoder

Ø 52 mm • 205 mNm



Dimensions in mm

Electrical Data	P532 012 150 HEDS		P532 004 150 HEDS		P532 0.7 150 HEDS	Unit
	5540 A11 (series)	5540 A11 (series)	5540 A11 (parallel)	5540 A11 (parallel)	5540 A11 (parallel)	
1 Resistance per Phase, typ	27.0	8.80	2.20	0.31	Ohms	
2 Inductance per Phase, typ	64.0	20.0	5.0	0.70	mH	
3 Nominal Phase Current (2 ph. On)	0.40	0.70	1.40	3.74	A	
4 Nominal Phase Current (1 ph. On)	0.56	1.00	2.00	5.29	A	
5 Back EMF Amplitude	21.00	12.00	6.00	2.30	V/kstep/s	
General Data						
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	13.0				kgm ² x 10 ⁻⁷	
10 Step Angle	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)	7.3				°C/W	
16 Natural Resonance Frequency (nominal current)	350				Hz	
17 Electrical Time Constant	2.30				ms	
18 Angular Acceleration (nominal current)	171,000				rad/s ²	
19 Bearing Type	Ball					
20 Dielectric Withstanding Voltage	500 VRMS for 5 seconds				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	

- Notes:
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

4. For encoder specification, please refer to the dedicated encoder catalog page for HEDS 5540

