



Dimensions in mm

Electrical Data	P430 258 013 01		P430 258 005 01		Unit
	(series)	(parallel)	(series)	(parallel)	
1 Resistance per Phase, typ	26.0	6.5	10.0	2.5	Ohms
2 Inductance per Phase, typ	40.0	10.0	14.0	3.5	mH
3 Nominal Phase Current (2 ph. On)	0.34	0.68	0.56	1.12	A
4 Nominal Phase Current (1 ph. On)	0.50	1.00	0.80	1.60	A
5 Back EMF Amplitude	7.50	3.80	4.70	2.30	V/kstep/s
General Data					
6 Holding Torque, nominal current	60 (8.5)				mNm (oz-in)
7 Holding Torque, 1.5x nominal current (1)	86 (12)				mNm (oz-in)
8 Detent Torque	6.5 (0.93)				mNm (oz-in)
9 Rotor Inertia	3.000				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)	11				°C/W
16 Natural Resonance Frequency (nominal current)	360				Hz
17 Electrical Time Constant	1.50				ms
18 Angular Acceleration (nominal current)	200,000				rad/s ²
19 Bearing Type	Ball				
20 Dielectric Withstanding Voltage	500 VRMS for 5 seconds				VAC
21 Radial Shaft Play	15@5N				µm
22 Axial Shaft Play	10@5N				µm
23 Maximum Radial Shaft Load	20 (72)				N (oz)
24 Maximum Axial Shaft Load (3)	30 (108)				N (oz)
25 Weight	100 (3.5)				g (oz)
26 Power Rate (nominal current)	12.0				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

