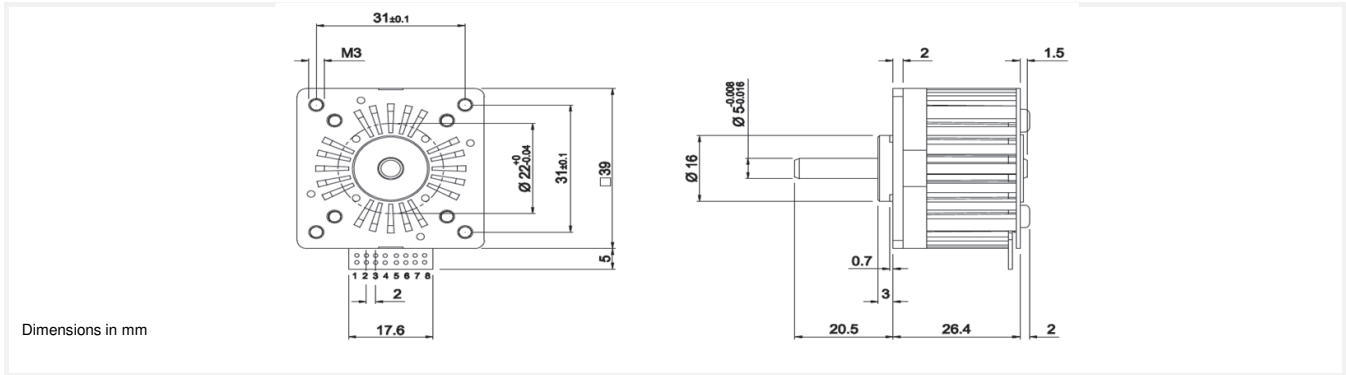


P430

Ø39mm

60 mNm



Dimensions in mm

P430

Electrical Data	P430 258 013 01 (series)	P430 258 013 01 (parallel)	P430 258 005 01 (series)	P430 258 005 01 (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
<b>Coil independent parameters</b>					
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 <sup>2</sup> x 10 <sup>-7</sup>
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 <sup>2</sup>
19 Bearing Type		Ball			
20 Dielectric Withstanding Voltage		500 VRMS for 5 seconds (15@5N)			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

(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

