

Endurance PJ Series Permanent-Magnet DC Motors

3-Inch, 4200 RPM, 1/3 H/P Fixed Brush

Allied Motion's Endurance PJ series of 3-inch (76mm) diameter PMDC motors are a cost-effective solution for a wide range of commercial applications like mobile HVAC systems, pumps, and electric actuators.

With rated winding voltages from 12 up to 48 VDC, and continuous power output up to 1/3 HP, the Endurance PJ models are especially suitable for battery-powered applications. They offer excellent performance, long service life, and high reliability. Custom design variations are available to exactly match customer needs.

Features & Benefits

- Gloss-black fully-dipped 3-inch (76mm) diameter field housing
- Rugged zinc die-cast end frames
- Continuous power output up to 1/3 HP (0.25kW)
- Continuous speed up 3600 RPM
- Self-aligning bronze sleeve bearings
- IP54 protection level

- Optimized brush life
- Class B (130 °C) winding
- High strength ceramic magnets
- 5/16-inch (8 mm) cold-rolled steel shaft

Options

- Customized shaft, mounting, and lead configurations to match customer application requirements
- Sealed ball bearings
- Stainless steel shaft
- Larger 3/8-inch (9.5 mm) shaft
- EMI/RFI suppression
- IP56 sealing (wash-down version)
- E-coated housing for corrosion protection
- Chrome and zinc plated housing
- High temperature Class H (180 °C) winding insulation
- Vented housing
- Thermal protection
- High strength steel thru bolts



- Reliable 3-inch diameter PMDC motor
- 12 up to 48 VDC winding choices, up to 1/3 HP
- Heavy-duty, long life maintenance-free brushes

SPECIFICATIONS

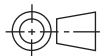
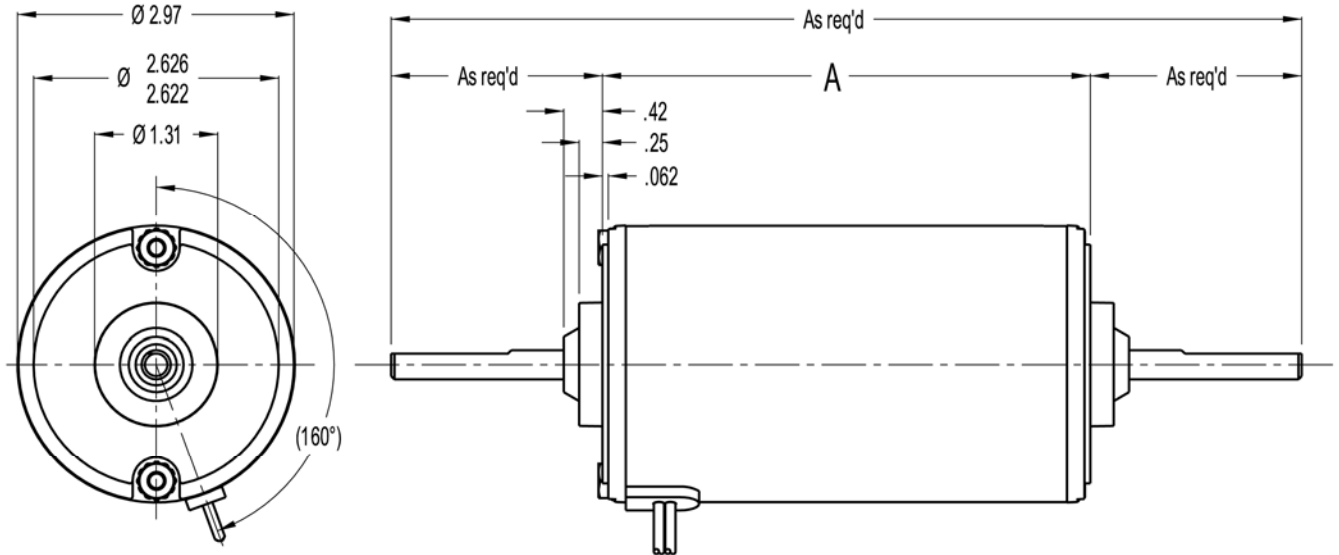
Model	Weight lb (kg)	Cont. Torque oz-in (Nm)	Cont. Speed RPM	No Load Speed RPM	Current			Cont. Power HP (W)
					Pk A	Cont. A	NL A	
PJ20000Q	1.0 (0.46)	20 (0.14)	3000	3700	8	5	2	0.06(44)
PJ22000Q	1.6 (0.68)	30 (0.21)	3600	4000	14	8	3	0.11 (80)
PJ23000Q	2.1 (0.96)	40 (0.28)	3400	4200	18	12	4	0.135 (101)
PJ24000Q	2.7 (0.27)	50 (0.35)	2700	3400	20	14	4	0.134 (100)
PJ26000Q	3.2 (1.45)	60 (0.42)	3100	3800	20	5	4	0.184 (137)
PJ27000Q	3.8 (1.73)	70 (0.5)	3300	4100	24	20	4	0.23 (171)
PJ28000Q	4.3 (1.95)	80 (0.56)	3000	3800	26	22	4	0.24 (178)
PJ2P000Q	5.3 (2.4)	90 (0.64)	3000	3700	28	24	4	0.27 (200)
PJ2R000Q	6.4 (2.9)	100 (0.71)	2500	3000	28	24	4	0.25 (185)
PJ2T000Q	6.9 (3.12)	140 (0.99)	1750	2150	30	25	4	0.24 (181)

Values above are nominal for a 12 volt DC motor. Contact Allied Motion for specific performance.

PMDC Motors

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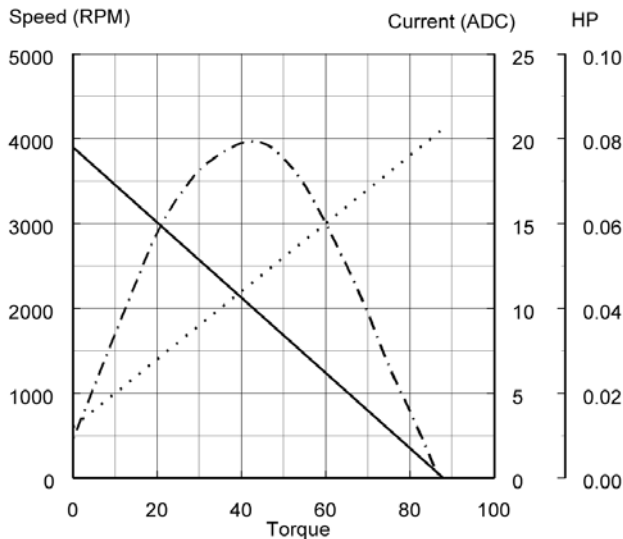
DIMENSIONS



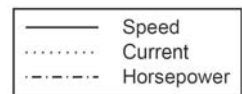
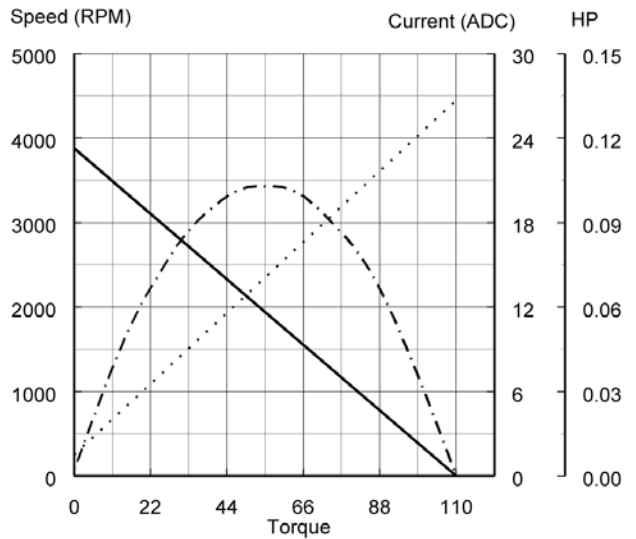
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Length A in (mm)	3.22 (81.9)	3.47 (88.2)	3.72 (94.6)	3.97 (100.9)	4.22 (107.3)	4.47 (113.6)	4.72 (120)	5.22 (132.6)	5.72 (145.4)	5.97 (151.7)

PERFORMANCE

PJ20000Q



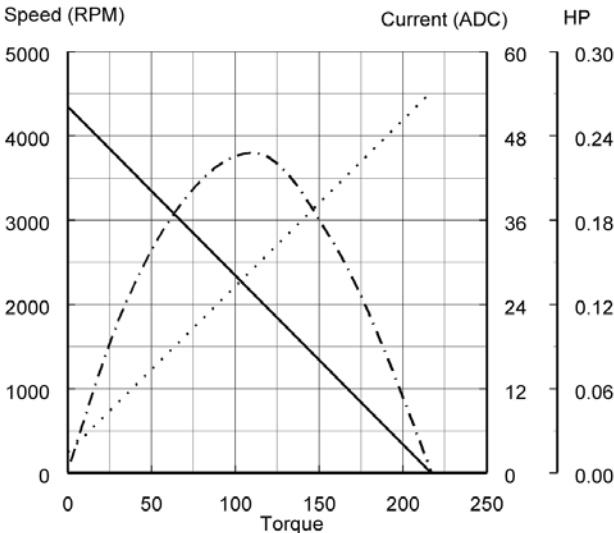
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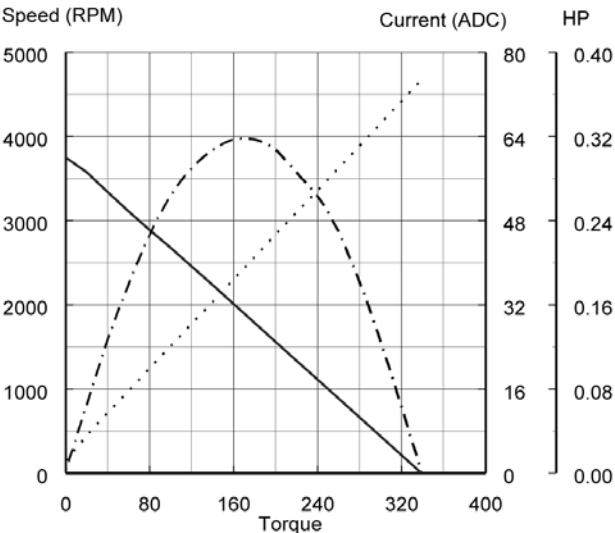
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PERFORMANCE

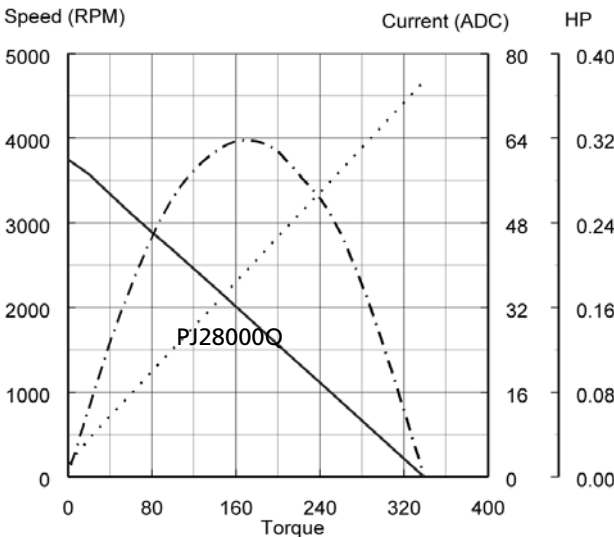
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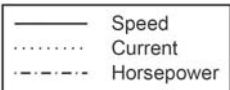
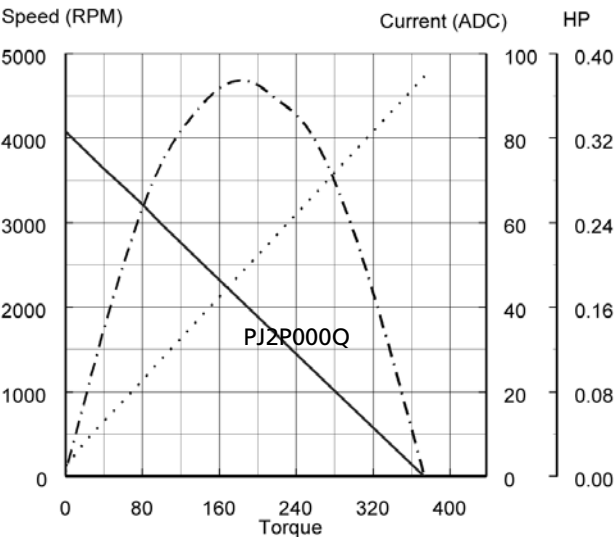
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PJ26000Q



PJ27000Q

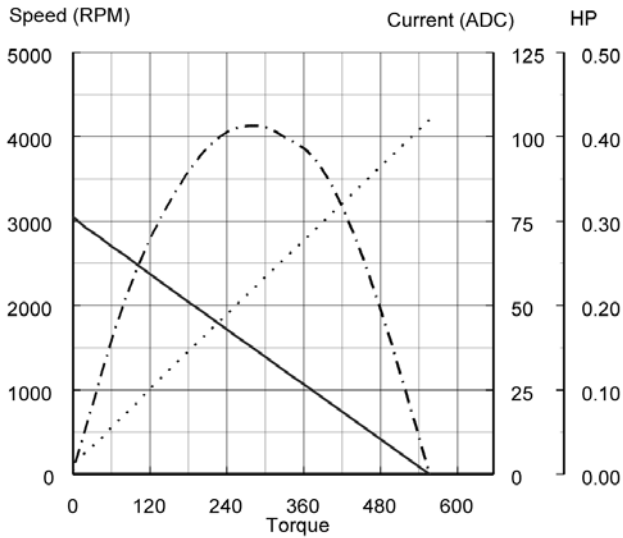


PMDC Motors

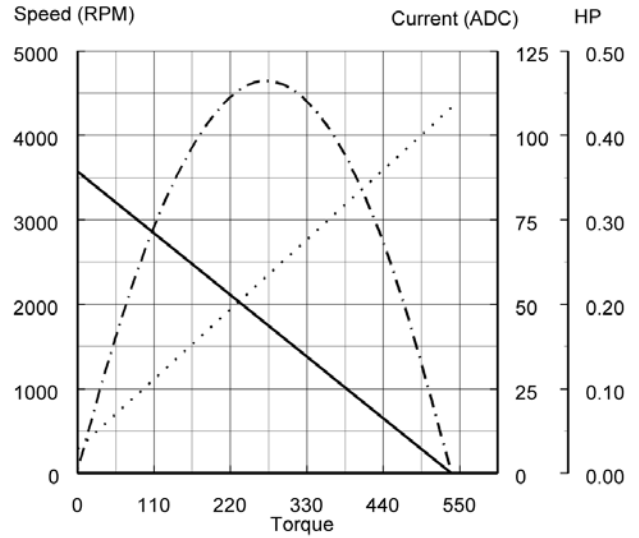
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PERFORMANCE

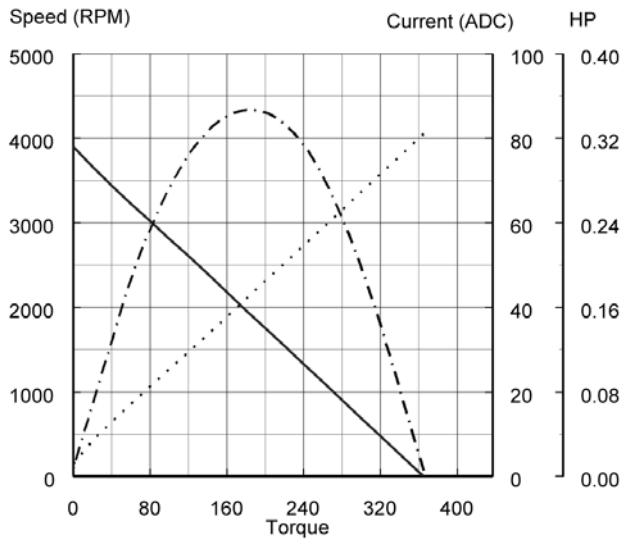
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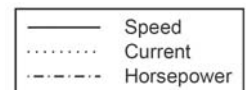
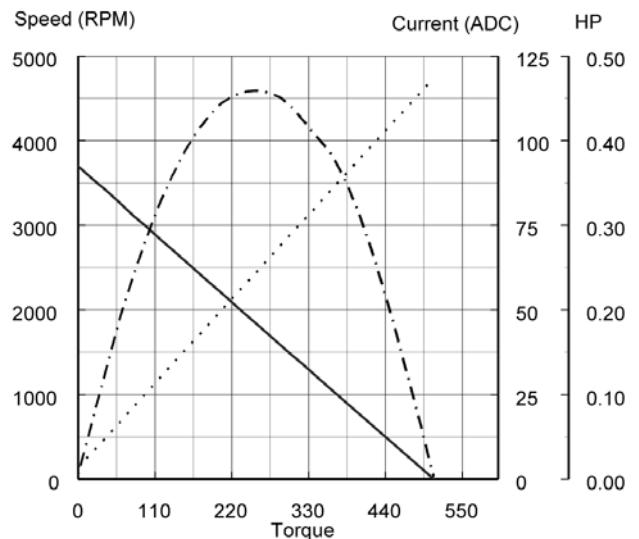
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PJ2R000Q

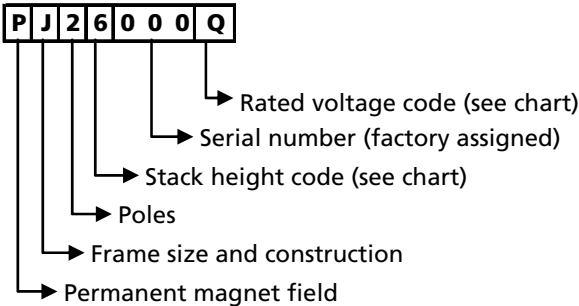


PJ2T000Q



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MODEL NUMBERING



Stack Height (in.)	
0 = 0.5	7 = 1.75
2 = 0.75	8 = 2.0
3 = 1.0	P = 2.5
4 = 1.25	R = 3.0
6 = 1.5	T = 3.25

Voltage (VDC)
Q = 12
R = 24
Z = 36
G = 48



www.alliedmotion.com

