

# Stepper Motor NEMA 17

This document describes mechanical and electrical specifications for PBC Linear stepper motors; including standard, hollow, and extended shaft variations.

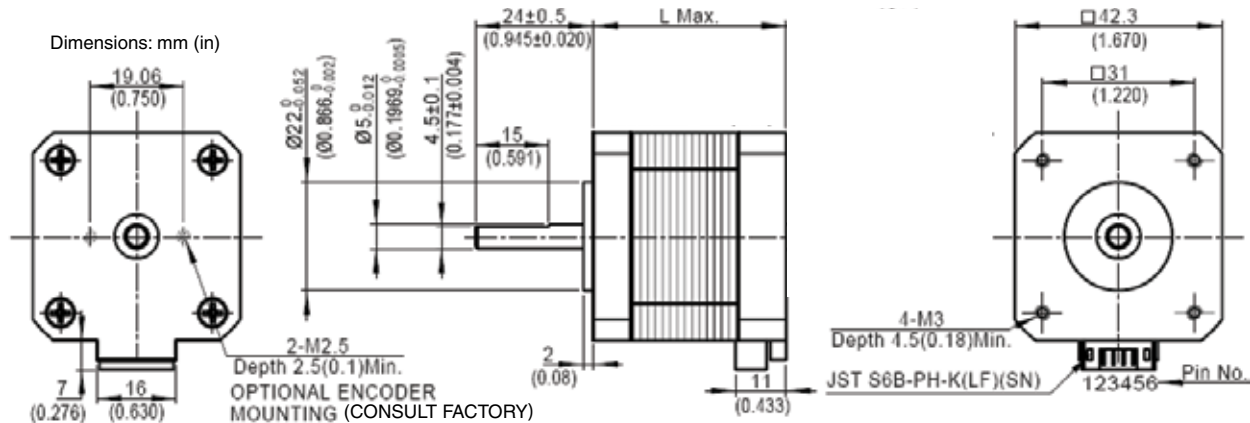


Phases	2
Steps/Revolution	200
Step Accuracy	±5%
Shaft Load	20,000 Hours at 1000 RPM
Axial	25 N (5.6 lbs.) Push 65 N (15 lbs.) Pull
Radial	29 N (6.5 lbs.) At Flat Center
IP Rating	40
Approvals	RoHS
Operating Temp	-20° C to +40° C
Insulation Class	B, 130° C
Insulation Resistance	100 MegOhms

Standard shaft motor shown.

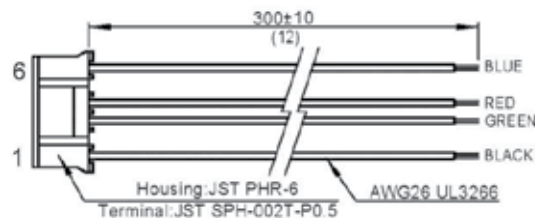
Description	Length	Mounted Rated Current	Mounted Holding Torque	Winding Ohms	mH	Detent Torque	Rotor Inertia	Motor Weight
(Stack)	"L" Max	Amps	Nm oz-in Typ. Typ.	±10% @ 20°C	Typ.	mNm oz-in	g cm2 oz-in2	kg lbs
Single	39.8 mm (1.57 in)	2	0.48 68	1.04	2.2	15 2.1	57 0.31	0.28 0.62
Double	48.3 mm (1.90 in)	2	0.63 89	1.3	2.9	25 3.5	82 0.45	0.36 0.79
Triple	62.8 mm (2.47 in)	2	0.83 120	1.49	3.8	30 4.2	123 0.67	0.6 1.3

\*All standard motors have plug connector. Consult factory for other options.



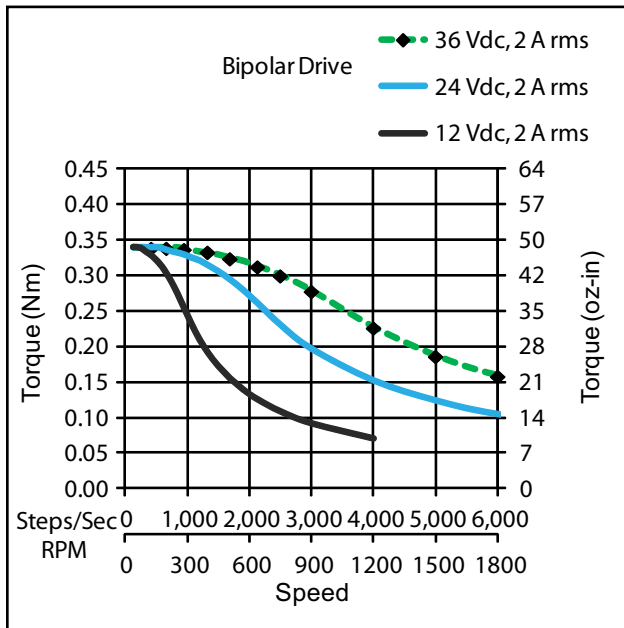
Standard shaft dimensions shown. All other dimensions apply to hollow and extended shaft options.

Dimensions: mm (in)  
4 Lead Connector, PBC Part#6200490  
(Consult factory for optional motor connectors)

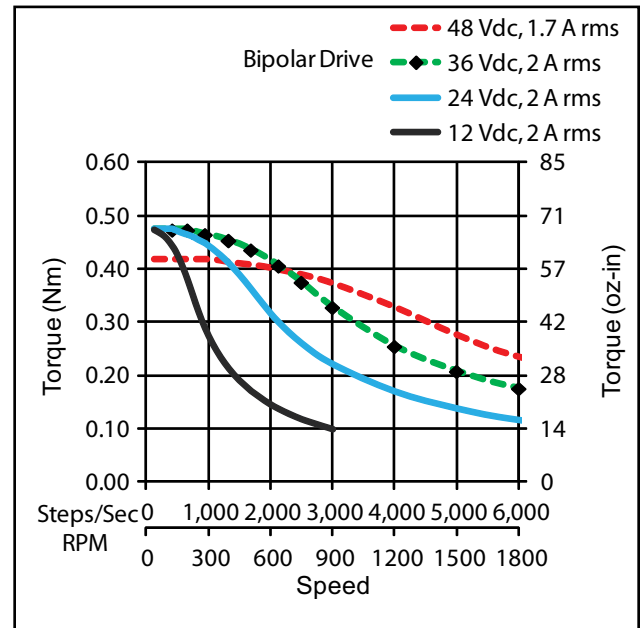


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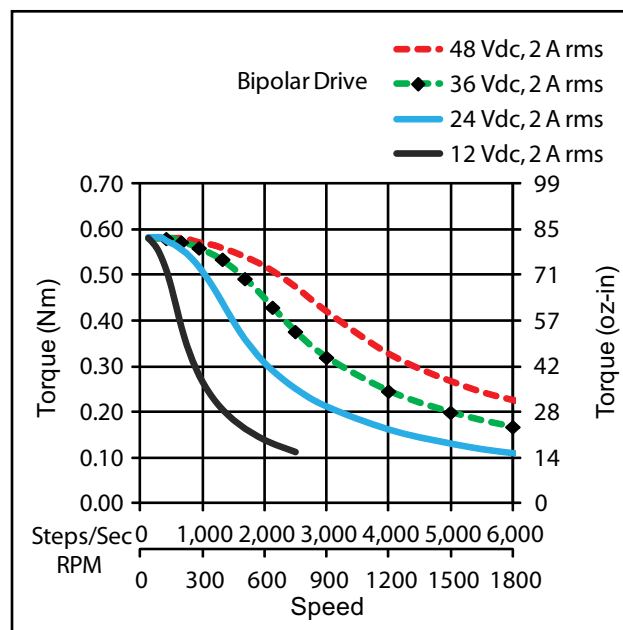
\*Performance curves apply to continuous duty cycles.  
Consult factory for intermittent cycles or other voltages.



Single Stack



Double Stack



Triple Stack

