## **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

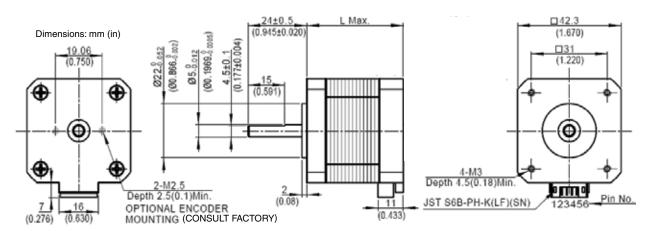
IP Rating 40 Approvals RoHS

Operating Temp -20° C to +40° C Insulation Class B, 130° C Insulation Resistance 100 MegOhms

Standard shaft motor shown.

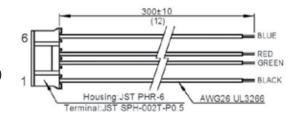
Description	Length	Mounted Rated Current	Mounted Holding Torque		Winding Ohms mH		Detent Torque		Rotor Inertia		Motor Weight	
(Stack)	"L" Max	Amps	Nm Typ.	oz-in Typ.	±10% @ 20°C	Тур.	mNm	oz-in	g cm2	oz-in2	kg	lbs
Single	39.8 mm (1.57 in)	2	0.48	68	1.04	2.2	15	2.1	57	0.31	0.28	0.62
Double	48.3 mm (1.90 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

<sup>\*</sup>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.

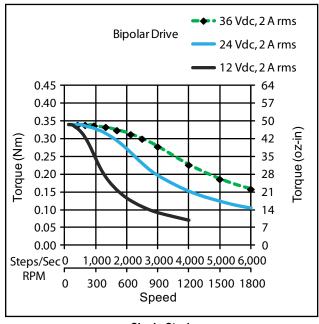
Dimensions: mm (in)
4 Lead Connector, PBC Part#6200490
(Consult factory for optional motor connectors)

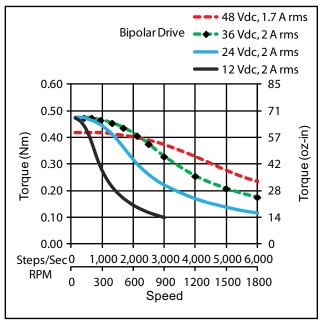




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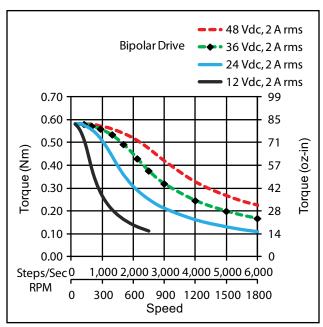
\*Performance curves apply to continuous duty cycles. Consult factory for intermittent cycles or other voltages.





Single Stack

**Double Stack** 



**Triple Stack** 

