

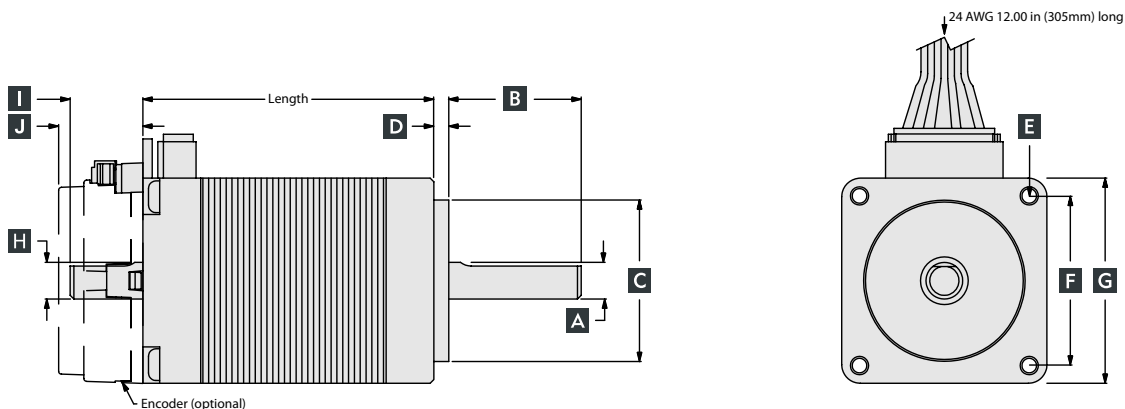
### Quiet. Durable.

This extremely quiet stepper is made with ball-bearings. Only available in metric configuration, sizes in metric units and has a holding torque up to 18 oz-in with a step angle accuracy of ±5%.



TPP11M STEPPER MOTOR	
Size	Nema 11, 1.8°
Holding Torque	up to 18 oz-in or 13 Ncm
Speed	up to 140 RPS

Bipolar Model	Unipolar Model	MAX Length	A	B	C	D	E	F	G	H	I	J
			Front Shaft Diameter	Front Shaft Length	Pilot Diameter	Pilot Length (Ref)	Mount Hole Callout (Ref)	Mount Hole Spacing (Ref)	Flange External Dimension (Ref)	Rear Shaft Diameter	Rear Shaft Length	Encoder Length (max)
TPP11M-7	TPP11M-5	31.5 mm ±.08	4.999 mm 4.986 mm	20 mm ±0.08	22.00 mm 21.97 mm	2.0 mm	(4) M2.5 x 0.45H 3.5 mm Deep min	23.0 mm	28.0 mm	4.999 mm 4.986 mm	9.9 mm ±0.08	16.26 mm
TPP11M-10	TPP11M-6	39.6 mm ±.08										
TPP11M-13	TPP11M-9	50.6 mm ±.08										



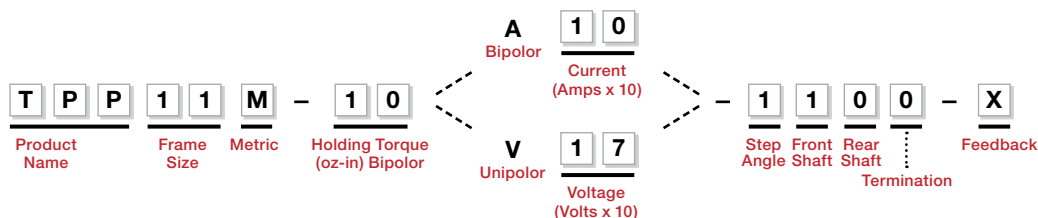
### TPP11M Model Number

1 - Frame Size  
(Imperial)

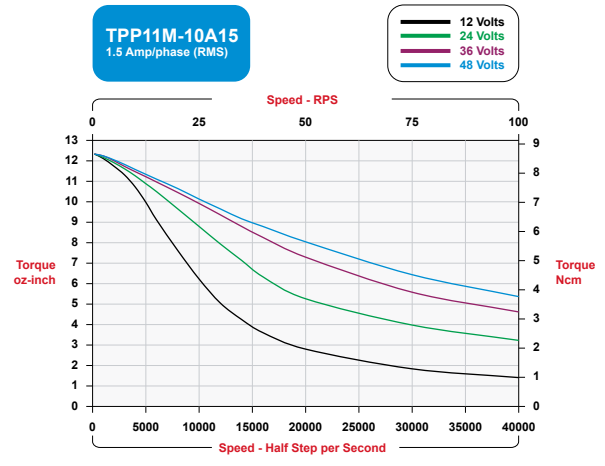
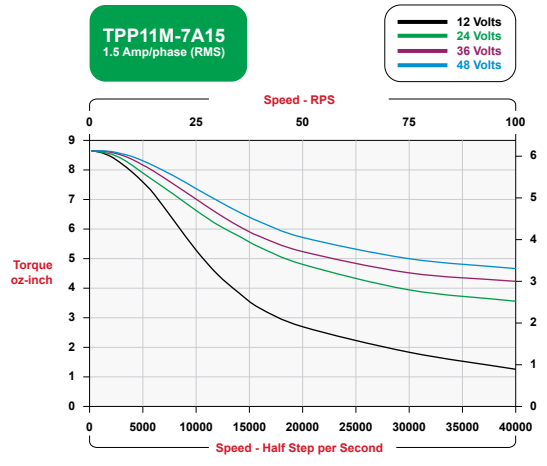
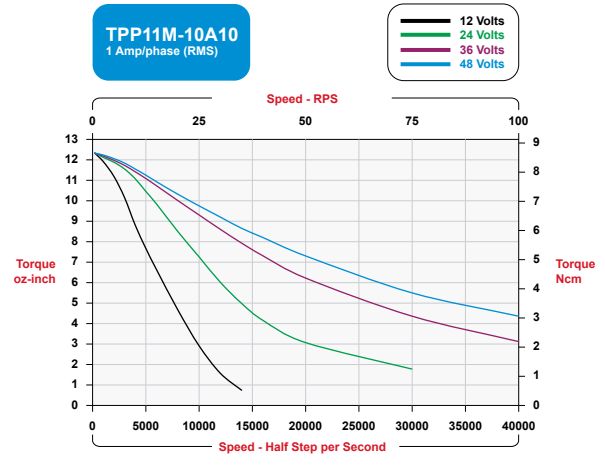
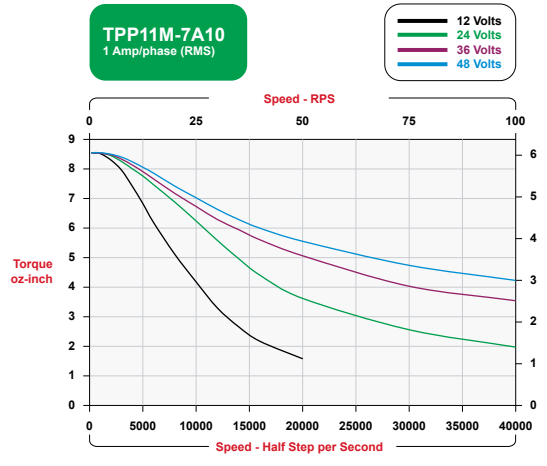
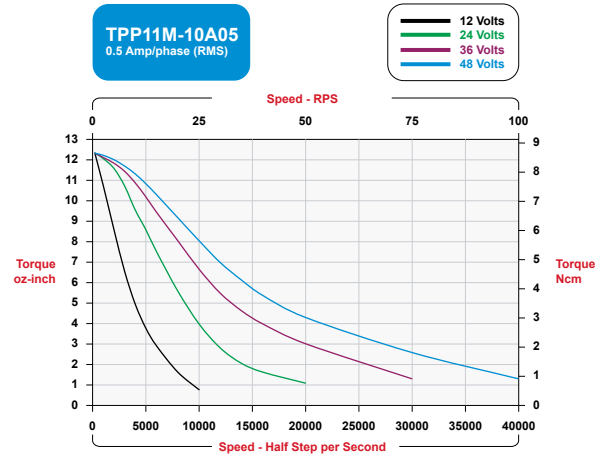
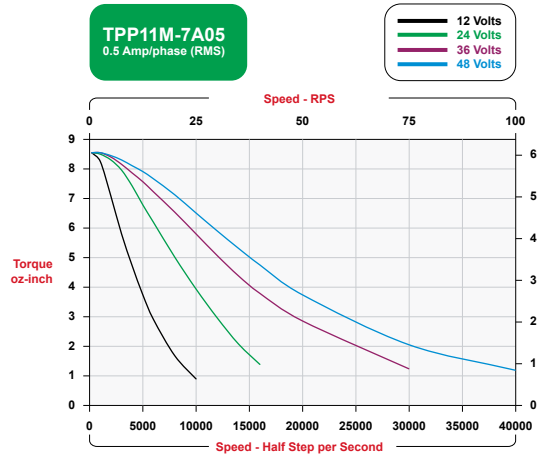
2 - Torque  
(Stack Length)

3 - Winding

4 - Features



# TPP11M - Bipolar Performance



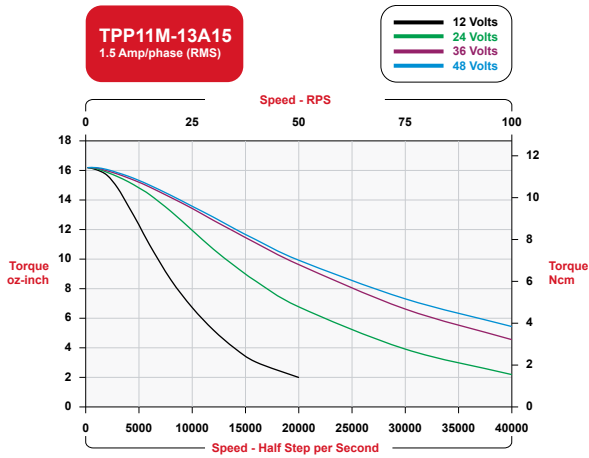
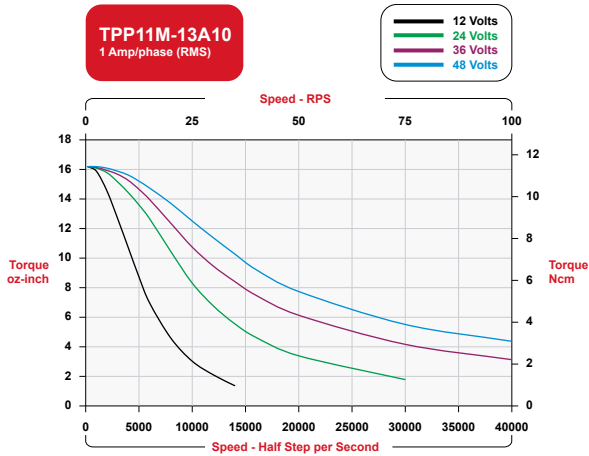
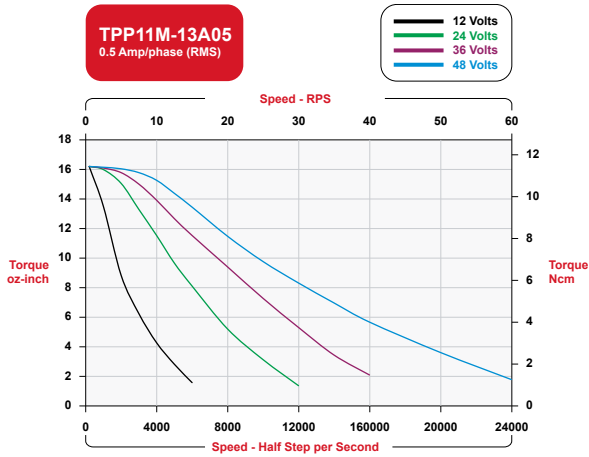
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TPP11M - Bipolar Performance



TPP11M - Unipolar Performance

