Overview

The BM14 series high torque stepper motors have a 1.8˚ step angle, NEMA14 dimensions and are available in single or dual shaft versions. They feature 4 leads but can be provided also with 6 or 8 leads upon request. Custom lead length adaptation is available.

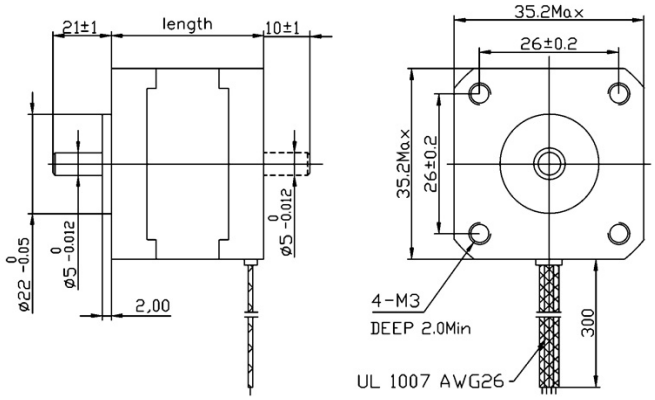
The dual shaft motors are optionally available with a differential encoder

Specifications

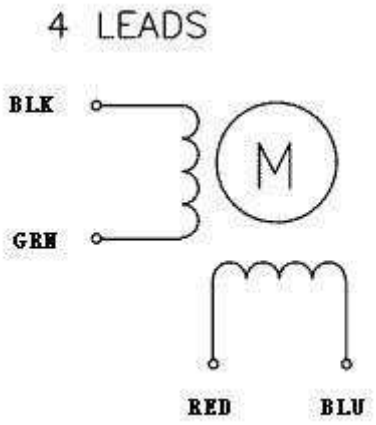
Model Number		Current / Phase	Resistance / Phase	Inductance / Phase	Holding Torque	Rotor Inertia	Weight	Detent Torque	Length
Single Shaft	Dual Shaft	A	Ω	mH	g-cm (oz-in)	g-cm^2	kg	g-cm	mm
BM14-7-S	BM14-7-D	0.6	5.4	3.5	504 (7)	10	0.13	60	26
BM14-9-S	BM14-9-D	0.28	26	19.2	648 (9)	10	0.13	60	26
BM14-12-S	BM14-12-D	0.5	20	13.5	864 (12)	10	0.14	80	28
BM14-13-S	BM14-13-D	0.7	2.0	2.9	920 (13)	14	0.14	80	36
BM14-19-S	BM14-19-D	1.0	2.7	4.3	1368 (19)	14	0.18	100	36

Step Angle	1.8˚
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80˚C max. (rated current, both phases on)
Ambient Temperature	-20˚C ~ +50˚C
Insulation Resistance	100MΩ min., 500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02 max. (450 g load)
Shaft Axial Play	0.08 max. (450g load)
Max. Radial Force	28N (20mm from the flange)
Max. Axial Force	10N
Direction of Rotation	CW (when viewing from the front flange)

Dimensions in mm



Connection



Torque Speed Curves