



NEMA Size 11 hybrid stepper motors produce high torque in a small, RoHS compliant package. They are ideal for motion control applications where the benefits of smaller

size with high torque are essential.

The compact and lightweight 1.8° NEMA 11 bipolar stepper motors provide flexibility in applications with limited space. The NEMA Size 11 stepper motors measure only 28mm (1.10in) square by as little as 32mm (1.25in) long.

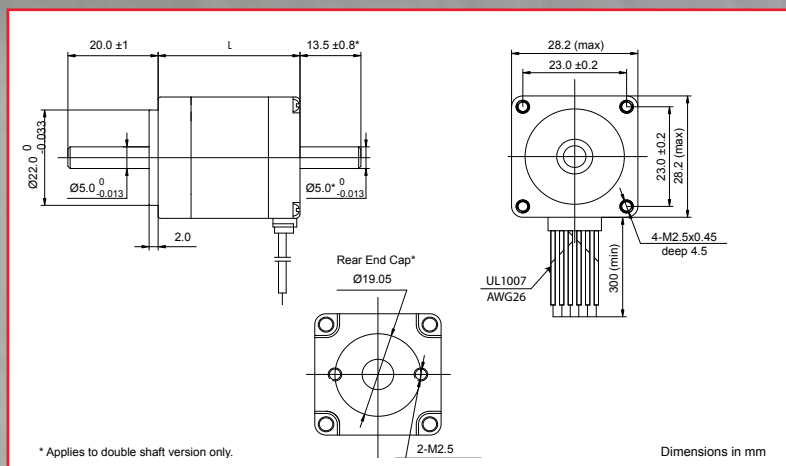
Specifications

Specification	
Motor Type	Hybrid
Step Angle	1.8°
Operating Temp. Range	-20° C to +50° C
Temperature Rise	80° C
Insulation Class	B

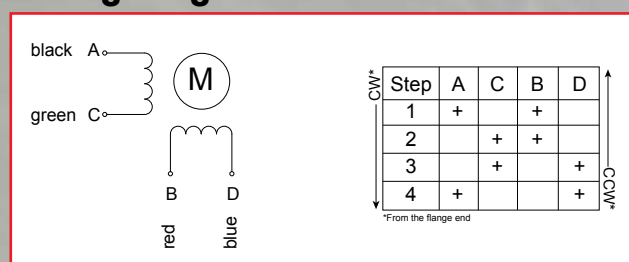
Model No.	Max. Length
PR28H-32	32mm
PR28H-45	45mm
PR28H-51	51mm

Specification	Unit	PR28H-32-0674JA PR28H-32-0674JB	PR28H-45-0674JA PR28H-45-0674JB	PR28H-51-0674JA PR28H-51-0674JB
Type of Winding		Bipolar	Bipolar	Bipolar
Rated Voltage	V	3.8	4.56	6.2
Rated Current	A/Ø	0.67	0.67	0.67
Resistance	ohm/Ø	5.6	6.8	9.2
Inductance	mH/Ø	3.4	4.9	7.2
Holding Torque	mN·m	60	93.2	117.7
Rotor Inertia	kg·m ²	9 x 10 ⁻⁷	12 x 10 ⁻⁷	18 x 10 ⁻⁷
Motor Length	mm	31.5	45	51
Weight	g	110	140	200

* - All hybrid motor specifications are based on full-step constant current operation
Note: (A) = Single shaft and (B) = double shaft

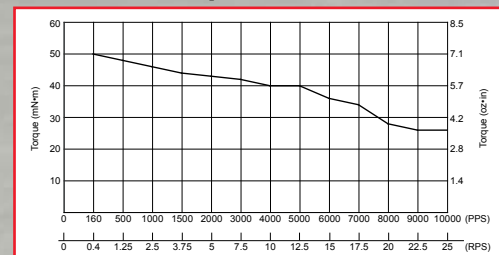


Wiring Diagram



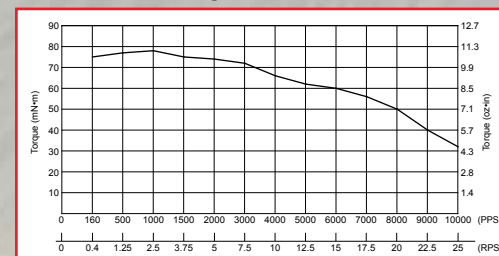
Torque Curves

PR28H-32 w/Bipolar Constant Current



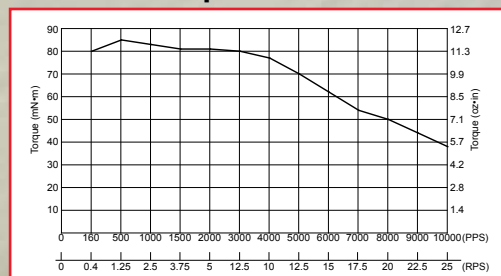
Excitation Mode: Half-step
Voltage: 24VDC
Current: 0.67A

PR28H-45 w/Bipolar Constant Current



Excitation Mode: Half-step
Voltage: 24VDC
Current: 0.67A

PR28H-51 w/Bipolar Constant Current



Excitation Mode: Half-step
Voltage: 24VDC
Current: 0.67A

