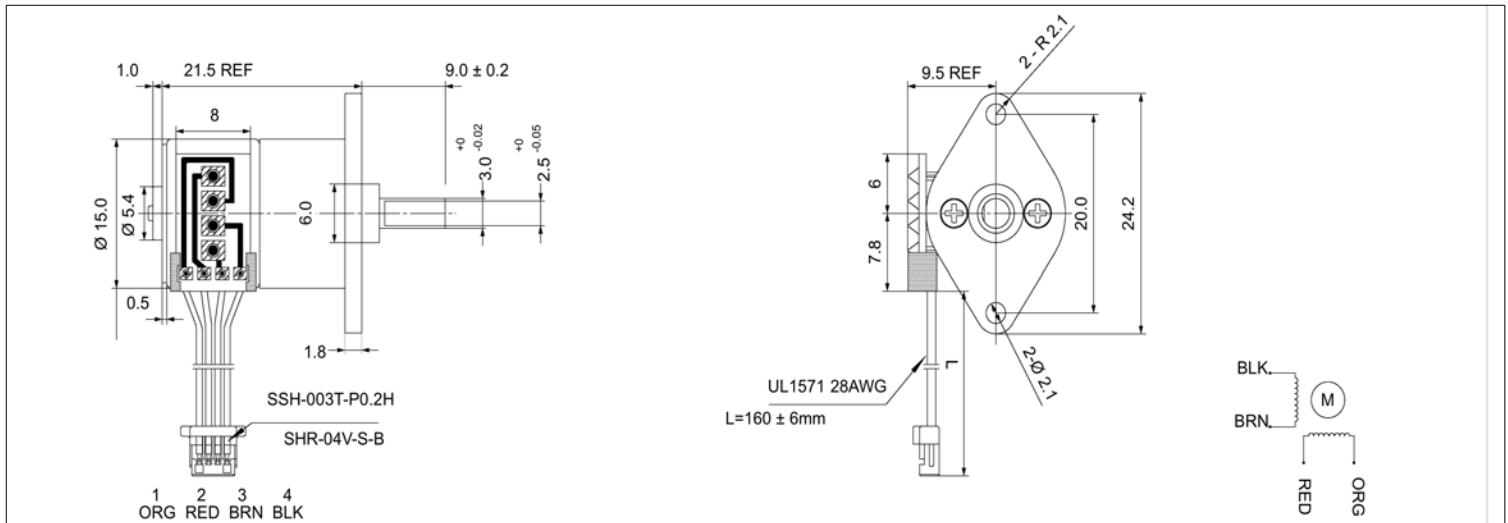


Stepper Gearmotor - 15 mm Ø



18° - Plastic Housing- Metal Gears - Low Cost

Global Motion Products



Nominal Voltage	5.0 Volts	Holding Torque	2.65 mNm
Nominal Current per Phase	0.500 Amps	Max Starting Frequency	1,000 step/sec
Number of Phases	2	Pull In Torque	
Phase Resistance	10.00 Ohms	Pull In Torque at Step Rate Of	1,000 step/sec
Phase Inductance	3.00 mH	Pull Out Torque at Step Rate Of	2.00 mNm
Step Angle	18.00 degree	Pull Out Rate	800 step/sec
Angular Accuracy	± 7 % Full Step	Motor Mass	

Drive Type Voltage - Bipolar - 2 Phases On - Full Step - Performance will improve with a Current Driver

Characteristics - Specifications at 22°C

Ratio	Gearbox Efficiency %	Speed at Pull Out Torque Rate above mNm	Holding Torque mNm	Pull In Torque at Rate Above mNm	Pull Out Torque at Rate Above mNm	Length L mm	Gearmotor Mass grams	Order Part Number
100.0:1	66 %	24.0 rpm	175 mNm		132.0 mNm	22.3 mm	15 g	A150100TS00
109.9:1	66 %	21.8 rpm	192 mNm		145.1 mNm	22.3 mm	15 g	A150110TS00

Radial Load Rating	≤ 0.0 N	Radial Play	
Radial Load Distance		Axial Play	
Axial Load	≤ 0.0 N	Backlash	
Press Fit Force - Max	≤ 0.0 N		

CAUTION Output torque estimates neglect input friction torque and are NOT gearbox ratings. Stepper motor performance is dependent on drive technique. Voltage/Current Mode, One Phase/Two Phase On, Half Step, Microstep, etc. Reflected inertia alters performance.

Options

Unipolar and bipolar windings. Optional windings at various Voltages. Additional ratios not highlighted here.

Max Temperature Oper.	
Min Temperature Oper.	
Relative Humidity Oper.	20% to 85%
Bearing	Sleeve

WARNING: OUTPUT TORQUE VALUES ARE SIMPLE CALCULATIONS
* Rotational Sense of Gearbox Same as Motor in All Ratios

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Manufactured under a
Certified ISO 9001 Quality
System

RoHS Compliant

Preliminary - 11-27-12

Specifications Subject to change without notice