

TSM42-075 - Permanent Magnet Stepper Motor



FEATURES

- **Permanent Magnet Stepper Motor**
- **42mm Diameter**
- **7.5 Degree Step Angle**
- **Up to 11.11 oz-in of Bipolar Holding Torque**
- **Customization Available for:**
 - **Winding Current to Optimize Torque**
 - **Shaft Options**
 - **Cables or Connectors**
- **RoHS Compliant and CE Certified**



See page 2 for additional model types

DESCRIPTION

These miniature Permanent Magnet DC Stepper Motors measure 42mm in diameter and provide up to 11.11 ounce-inches of bipolar holding torque. These motors come standard in 7.5° step angles with a four-lead wire connection, and are offered in 4V, 5V or 12V voltage ratings. Customization is available for larger quantities.

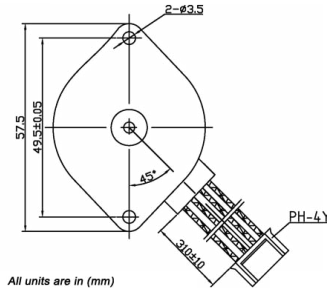
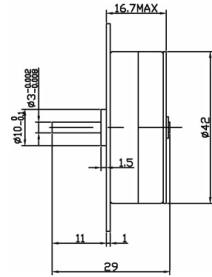
SPECIFICATIONS

Item	# of Wires	# of Phases	Bipolar Holding Torque (oz-in)	Detent Torque (oz-in)	Bipolar Series RMS Voltage (V)	Current Per Phase (A)	Resistance Per Phase (ohms)	Rotor Inertia (oz-in-sec ²)	Weight (lbs)	Length (mm)
TSM42-075-17-5V-059A-LW4	4	2	6.94	1.39	5	0.59	8.6	0.00014	0.22	16.7
TSM42-075-22-12V-013A-LW4	4	2	7.63	1.39	12	0.13	95	0.00014	0.22	16.7
TSM42-075-22-4V-060A-LW4	4	2	11.11	2.92	4.2	0.6	7	0.00014	0.22	16.7

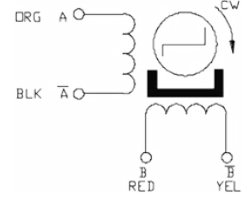
Step Angle Accuracy	±8% (Full Step, No Load)	Insulation Resistance	100ΩMin. 500 VDC
Resistance Accuracy	±10%	Dielectric Strength	500VAC for One Minute
Inductance Accuracy	±20%	Shaft Radial Play	0.06Max (450 g-load)
Temperature Rise	80°C Max	Shaft Axial Play	+/- 0.5mm (450 g-load)
Ambient Temperature	-20°C to +50°C		

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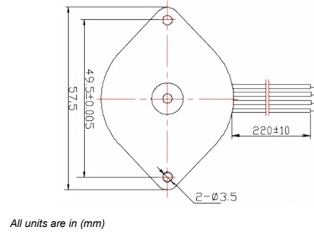
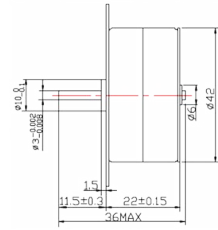
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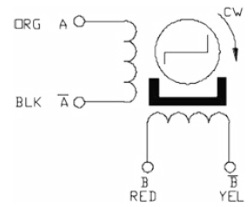
All units are in (mm)



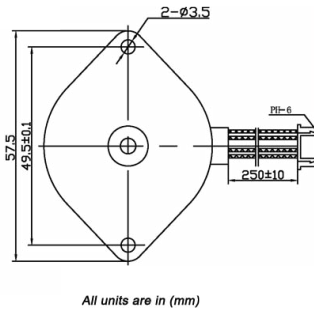
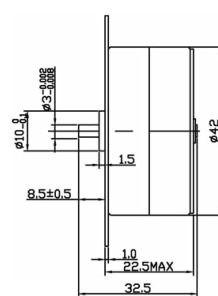
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All units are in (mm)



TSM42-075-22-4V-060A-LW4



All units are in (mm)

