

42D Series - Standard Stepper Motors



FEATURES

- **NEMA 42 Frame Size**
- **Best Selection for High Speed Applications**
- **1.8° Step Angle**
- **Torque - Up to 630 oz-in**
- **Customization Options:**
 - **Winding Current**
 - **Shaft Options**
 - **Cables and Connectors**
 - **Lead Configuration**
 - **Conduit Box**



DESCRIPTION

The 42D Series Stepper Motors is a standard (round-bodied) style stepper motor. They have lower rotor inertia than square high torque motors which allow them to accelerate faster and offer higher torque at speeds greater than 25 revolutions per second. These motors are an excellent choice to replace many of the round stepper motors that were popular for many years. The standard 42D frame motor is configured with a conduit box. Anaheim Automation can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, lead configuration, conduit box, cables and connectors are also available upon request. Often referred to as “legacy motors,” the 42D series is a good cross to the Superior Electric Slosyn series M111 and M112.

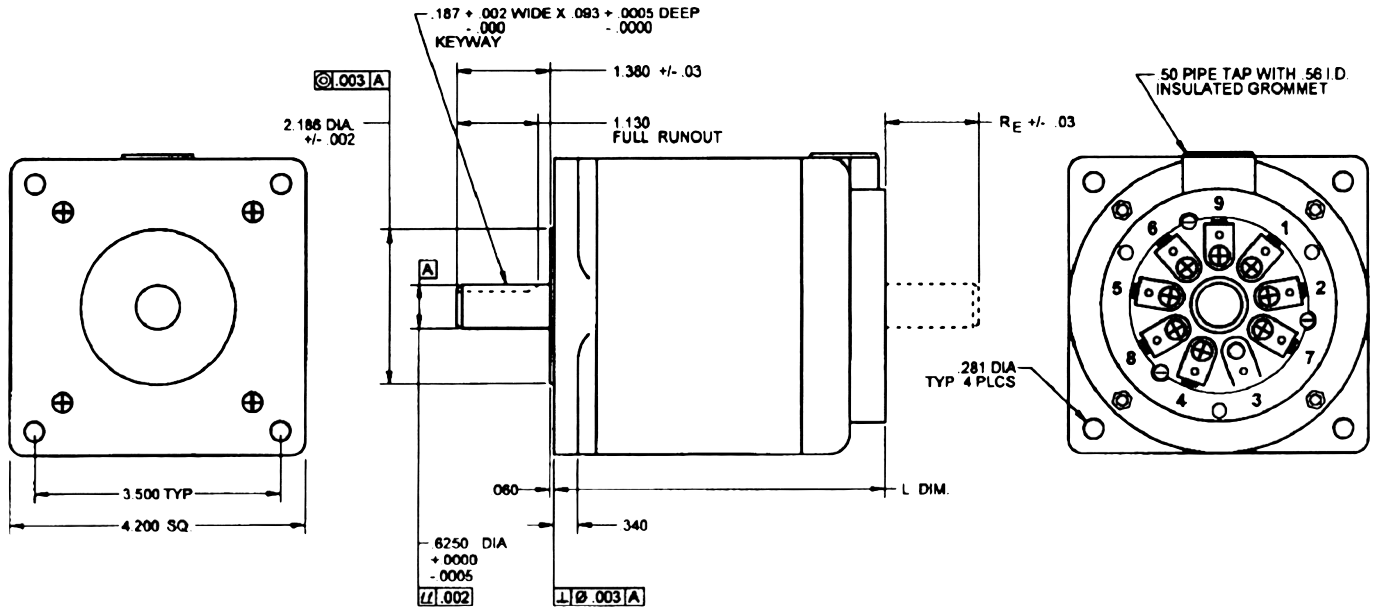
SPECIFICATIONS

Model #	NEMA Size	Bipolar Holding Torque (oz-in)	Series Current (A)	Unipolar Current (A)	Unipolar Inductance (mH)	Rotor Inertia (oz-in-sec ²)	Shaft Diameter (in)	Weight (lbs)	“L” Length (in)
42D112D	42	875	4.3	6.1	3	0.0546	.625	9	4.74
42D112S	42	875	4.3	6.1	3	0.0546	.625	9	4.74
42D119D	42	875	6.7	9.5	0.88	0.0546	.625	9	4.74
42D119S	42	875	6.7	9.5	0.88	0.0546	.625	9	4.74
42D212D	42	1575	4.3	6.1	5.94	0.1105	.625	15.7	6.99
42D212S	42	1575	4.3	6.1	5.94	0.1105	.625	15.7	6.99
42D219D	42	1575	6.5	9.2	2.0	0.1105	.625	15.7	6.99
42D219S	42	1575	6.5	9.2	2.0	0.1105	.625	15.7	6.99
42D225D	42	1575	8.9	12.7	1.0	0.1105	.625	15.7	6.99
42D225S	42	1575	8.9	12.7	1.0	0.1105	.625	15.7	6.99

Notes: The 7th character “S” denotes a single shaft, use “D” for double shaft. Custom leadwires, cables, connectors, and windings are available upon request. 8 lead wire configurations are also available.

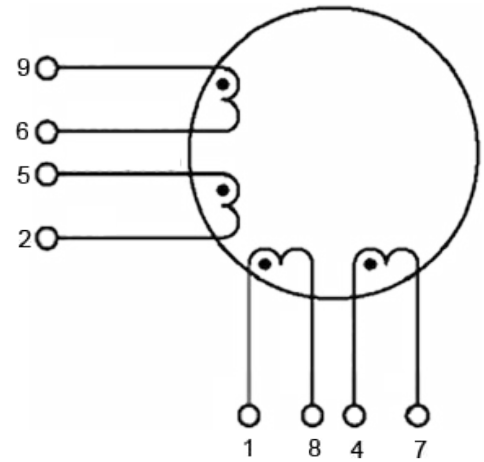
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DIMENSIONS



WIRING INFORMATION

Connection	Lead Wire Connection	Contact #
4 - Lead Bipolar Series MBC, MLP or MLA Series	Phase 1 (A)	9
	Phase 3 (/A)	2
	Phase 2 (B)	1
	Phase 4 (/B)	7
	Connect Wires with Wire Nut	5 & 6
	Connect Wires with Wire Nut	4 & 8
6 - Lead Unipolar BLD, TM Series	Phase 1	9
	Phase 3	2
	Phase 2	1
	Phase 4	7
	Common Phase 1 & 3	5 & 6
	Common Phase 2 & 4	4 & 8
4 - Lead Bipolar Parallel MBC, MLP or MLA Series	Phase 1 (A)	5 & 9
	Phase 3 (/A)	2 & 6
	Phase 2 (B)	1 & 4
	Phase 4 (/B)	7 & 8



SPECIFICATIONS

Step Angle Accuracy:	±5% of one step
Resistance Accuracy:	±10%
Inductance Accuracy:	± 20%
Temperature Rise:	100°C
Ambient Temperature:	-20°C - +50°C
Insulation Type:	Class B
Insulation Resistance:	1000M Ohms at 500VDC