SILVERPAK 17D Plus MOTOR + DRIVER

FEATURES

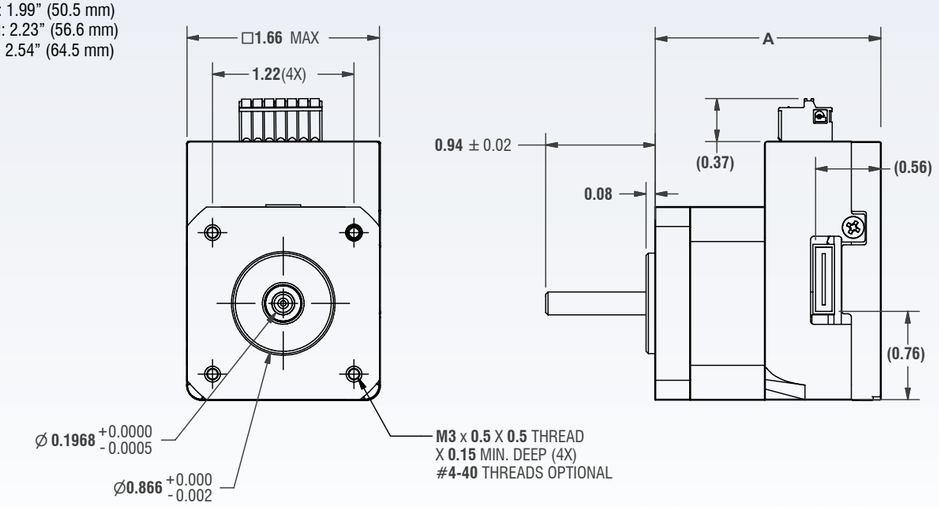
- NEMA 17, 1.8° Bipolar Signature Series Step Motor (see page 17)
- Operates from +12 to 48 VDC
- Up to 83 oz-in of Holding Torque
- Phase current ranges from 0.1 to 3.0 Amps Peak
- Step Resolutions from Full Step to 256x microstepping and from 5x to 250x
- Optically isolated Step, Direction, and Disable/Enable inputs
- Four selectable damping modes for smooth motion
- Pole Damping Technology™ *(See page 8)*

SPECIFICATIONS

- **INPUT VOLTAGE:**
  +12 to 48 VDC (Including Unregulated Power Supplies)
- **DRIVE CURRENT(PER PHASE):**
  0.1 to 3 Amps Peak
- **OPTICALLY ISOLATED INPUTS:**
  Step Clock, Direction, Enable & Disable
- **STEP FREQUENCY (MAX):**
  5 MHz
- **STEPS PER REVOLUTION (1.8º MOTOR):**
  200, 400, 800, 1000, 1600, 2000, 3200, 5000, 6400, 10000, 12800, 25000, 25600, 50000, 51200
- **MICROSTEP RESOLUTIONS (1.8º MOTOR):**
  Full, 2x, 4x, 5x, 8x, 10x, 16x, 25x, 32x, 50x, 64x, 125x, 128x, 250x, 256x

DIMENSIONS

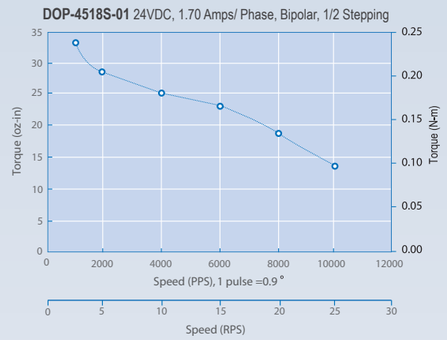
A. Overall Body Length
DO-4518S: 1.99" (50.5 mm)
DO-4518M: 2.23" (56.6 mm)
DO-4518L: 2.54" (64.5 mm)



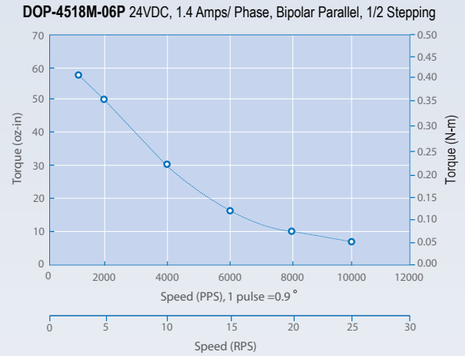
Visit Lin Engineering's web site for dimension updates.

TORQUE CURVES

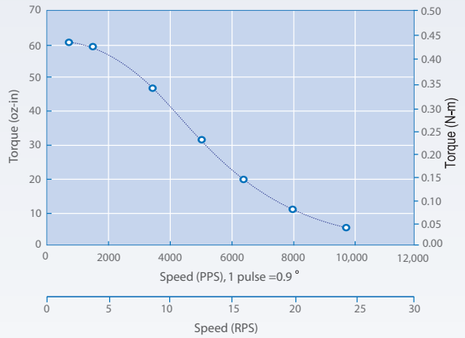
DOP-4518S-01 24VDC, 1.70 Amps/ Phase, Bipolar, 1/2 Stepping



DOP-4518M-06P 24VDC, 1.4 Amps/ Phase, Bipolar Parallel, 1/2 Stepping



DOP-4518L-04P 24VDC, 1.70 Amps/ Phase, Bipolar Parallel, 1/2 Stepping



MOTOR SPECIFICATIONS

Model DOP-4518S-01	
Holding Torque oz-in (N-m)	45.0 (0.32)
Rotor Inertia oz-in^2 (kg-cm^2)	0.18 (0.03)
Weight (Motor + Driver) lbs (kg)	0.60 (0.27)
Model DOP-4518M-06P	
Holding Torque oz-in (N-m)	63.0 (0.44)
Rotor Inertia oz-in^2 (kg-cm^2)	0.28 (0.05)
Weight (Motor + Driver) lbs (kg)	0.80 (0.36)
Model DOP-4518L-04S	
Holding Torque oz-in (N-m)	83.0 (0.59)
Rotor Inertia oz-in^2 (kg-cm^2)	0.37 (0.07)
Weight (Motor + Driver) lbs (kg)	0.90 (0.41)

OPTIONAL ENCODER

Optional encoder available with **SilverPak 17DE Plus**

Encoder features:
- Max 1,250 cycles per revolution (CPR)
- Max 5,000 pulses per revolution (PPR) (quadrature)
- 2 channel quadrature TTL squarewave outputs
- Optional index (3rd channel)
- Position correction capabilities with user's external controller

OPTIONAL SHAFT MODIFICATIONS

For more shaft modifications options, see page 69

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