

## SILVERPAK 17C

## ■ FEATURES

- NEMA 17, 1.8° Bipolar Step Motor
- Up to 84.8 oz-in of holding torque
- Input voltage of +12 to 40 VDC
- Phase current ranges from 0.1 to of 2.0 Amps Peak
- Microstepping capabilities of 2x, 4x, 8x, 16x, 32x, 64x, 128x, and 256x
- RS485 communication with optional converter cards available
- 2 user configurable digital I/O's
- 2 dedicated inputs:
  - o 1 optical sensor for homing
  - o 1 switch closure to ground
- Fully programmable ramps and speeds
- Software selectable Hold and Move currents
- Stand Alone Operation with no connection to PC
- Stores up to 16 different programs at once with 4 kBytes of memory



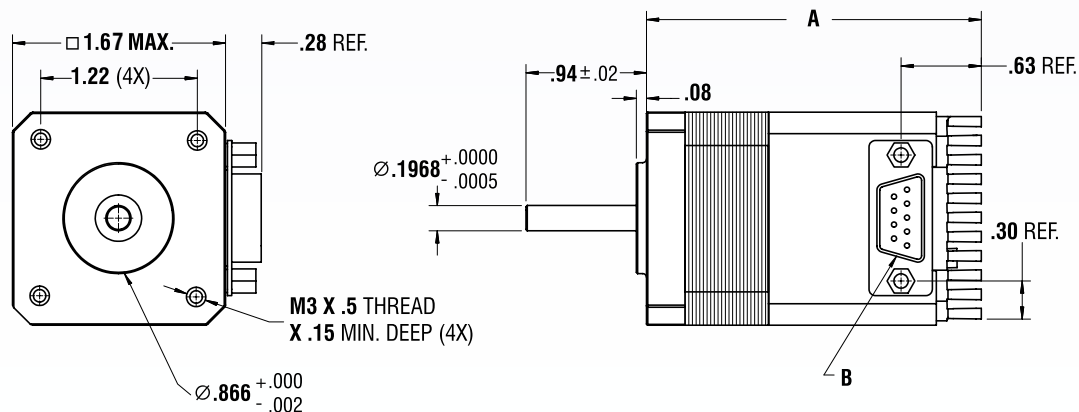
## ■ SPECIFICATIONS

- **INPUT VOLTAGE:**  
+12 to 40 VDC
- **DRIVE CURRENT (PER PHASE):**  
0.1 to 2.0 Amps Peak
- **I/O's:**  
2 user configurable digital  
2 dedicated inputs:
  - 1 optical sensor for homing
  - 1 switch closure to ground
- **STEP FREQUENCY (MAX):**  
2 MHz
- **STEPS PER REVOLUTION (1.8° MOTOR):**  
400, 800, 1600, 3200, 6400, 12800, 25600, 51200
- **MICROSTEP RESOLUTIONS (1.8° MOTOR):**  
2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x

## ■ DIMENSIONS (inches)

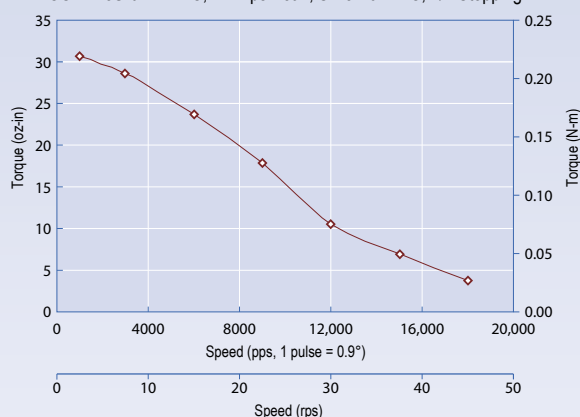
**A.** Overall Body Length  
 CO-4118S: 2.69" (6.83cm)  
 CO-4118M: 2.92" (7.42cm)  
 CO-4118L: 3.24" (8.23cm)

**B.** DB-9 Connector for Controls

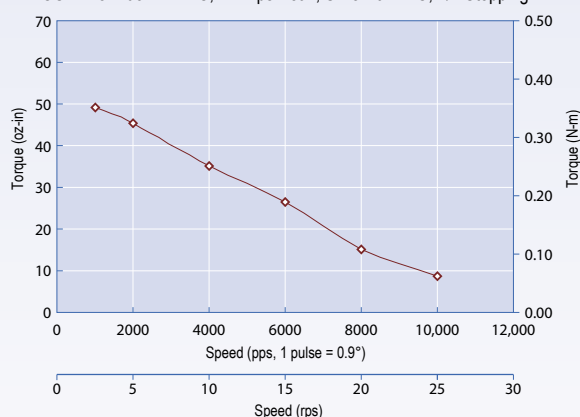


## TORQUE CURVES

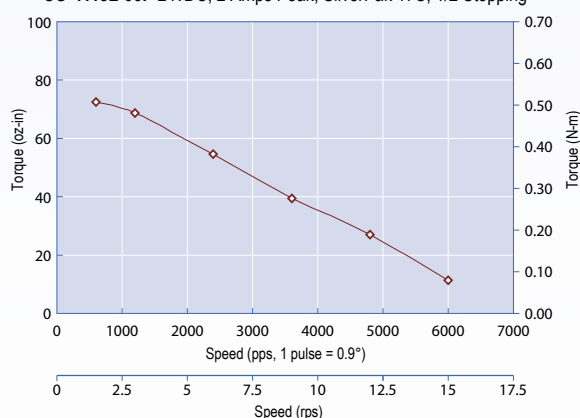
CO-4118S-01 24vDC, 2 Amps Peak, SilverPak 17C, 1/2 Stepping



CO-4118M-03P 24vDC, 2 Amps Peak, SilverPak 17C, 1/2 Stepping



CO-4118L-06P 24vDC, 2 Amps Peak, SilverPak 17C, 1/2 Stepping



## MOTOR SPECIFICATIONS

### Model CO-4118S-01

|                                                               |              |
|---------------------------------------------------------------|--------------|
| <b>Holding Torque</b> oz-in (N-m)                             | 30.00 (0.21) |
| <b>Rotor Inertia</b> oz-in <sup>2</sup> (kg-cm <sup>2</sup> ) | 0.18 (0.03)  |
| <b>Weight (Motor + Driver)</b> lbs (gm)                       | 0.55 (0.25)  |

### Model CO-4118M-03P

|                                                               |              |
|---------------------------------------------------------------|--------------|
| <b>Holding Torque</b> oz-in (N-m)                             | 45.00 (0.32) |
| <b>Rotor Inertia</b> oz-in <sup>2</sup> (kg-cm <sup>2</sup> ) | 0.28 (0.05)  |
| <b>Weight (Motor + Driver)</b> lbs (gm)                       | 0.75 (0.34)  |

### Model CO-4118L-06P

|                                                               |              |
|---------------------------------------------------------------|--------------|
| <b>Holding Torque</b> oz-in (N-m)                             | 85.00 (0.60) |
| <b>Rotor Inertia</b> oz-in <sup>2</sup> (kg-cm <sup>2</sup> ) | 0.37 (0.07)  |
| <b>Weight (Motor + Driver)</b> lbs (gm)                       | 0.85 (0.39)  |

## OPTIONAL ENCODER

Optional encoder available with **SilverPak 17CE**

### Encoder features:

- Max 12,500 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

## DESIGNERS KIT

- Optical Sensor
- RS232 to RS485 Converter Card
- Switch push button
- CD-ROM with User Manual
- DB-9 Female Connector Cable

