

# 17HC SERIES 1.2°

## Encapsulated Stepping Motor

### Key Features

- 35% More Torque
- Quieter & Smoother
- Longer Life



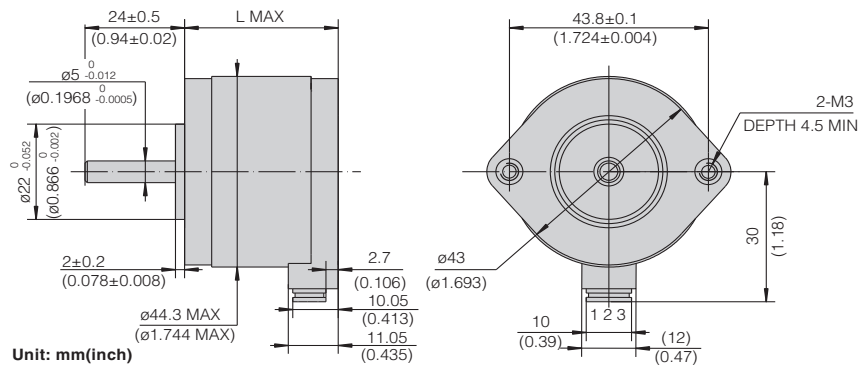
### General Specifications

| Series & Length              | Model Number | Holding Torque |       | Rated Current | Resistance per Phase | Inductance per Phase | Detent Torque |       | Rotor Inertia     |                    |
|------------------------------|--------------|----------------|-------|---------------|----------------------|----------------------|---------------|-------|-------------------|--------------------|
|                              |              | mNm            | oz-in | A             | ohm                  | mH                   | mNm           | oz-in | g.cm <sup>2</sup> | oz-in <sup>2</sup> |
| 17HC2<br>34 mm<br>(1.34 in.) | 17HC2001-01N | 320            | 45.3  | 0.8           | 12.4                 | 16.5                 | 14            | 2     | 57                | 0.311              |
|                              | 17HC2002-02N | 348            | 49.3  | 2.3           | 1.65                 | 2.4                  | 14            | 2     | 57                | 0.311              |

- Wiring Connection, Lead Wires, Schematic Diagrams & Stepping Sequence.....Page 62 - 64

### Mechanical Dimension

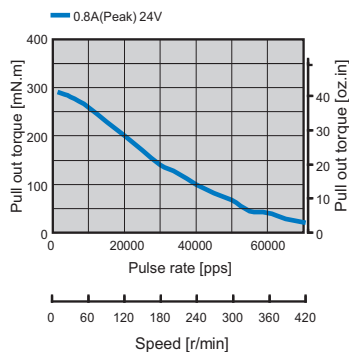
| Series | L            | Mass            |
|--------|--------------|-----------------|
|        | mm<br>(in.)  | kg<br>(lb.)     |
| 17HC2  | 34<br>(1.34) | 0.245<br>(0.54) |



### Dynamic Torque Curves

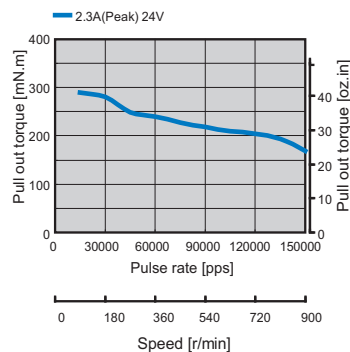
#### 17HC2001-01N

Conditions:  
Driver: MS3ST10  
Mode: 10000 Step/Revolution



#### 17HC2002-02N

Conditions:  
Driver: MS3ST10  
Mode: 10000 Step/Revolution



Why  
Stepping  
Motor

encapsulated  
2 phase  
NEMA 14

encapsulated  
3 phase  
NEMA 14  
NEMA 17

new release  
2 phase  
NEMA 8

new release  
2 phase  
NEMA 14

new release  
2 phase  
NEMA 16

2 phase  
NEMA 10  
25.0 mm  
(1.00 inch)

2 phase  
NEMA 11  
28.0 mm  
(1.10 inch)

2 phase  
NEMA 14  
35.0 mm  
(1.38 inch)

2 phase  
NEMA 16  
39.0 mm  
(1.53 inch)

2 phase  
NEMA 17  
42.0 mm  
(1.65 inch)

2 phase  
NEMA 23  
56.0 mm  
(2.22 inch)

2 phase  
NEMA 24  
60.0 mm  
(2.36 inch)

2 phase  
NEMA 34  
86.0 mm  
(3.39 inch)

3 phase  
NEMA 24  
60.0 mm  
(2.36 inch)

3 phase  
NEMA 34  
86.0 mm  
(3.39 inch)

how  
to  
select