

# MS08HY Series: 1.8° - Size 8



- Phases 2
- Steps / Revolution 200
- Step Accuracy ±5%
- Shaft Load (20,000 Hours at 1000 RPM)
  - Axial 6 N (1.3 Lbs.) Push  
25 N (5.6 Lbs.) Pull
  - Radial 18 N (4 Lbs.) At End of Shaft
- IP Rating 40
- Approvals RoHS
- Operating Temp. -20°C to +50°C
- Insulation Class B, 130°C
- Insulation Resistance 100 MegOhms

## MS08HY 3 P 4 065

### Basic Motor Length (Max)

|   |                 |
|---|-----------------|
| 1 | 29.5mm(1.16in.) |
| 3 | 39.5mm(1.56in.) |
| 5 | 46.5mm(1.83in.) |

### Electrical Connection

- P Plug-In Connector(Side Facing)
- F Font Facing Connector
- R Rear Facing Connector

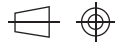
### Winding

### Current rating x 100

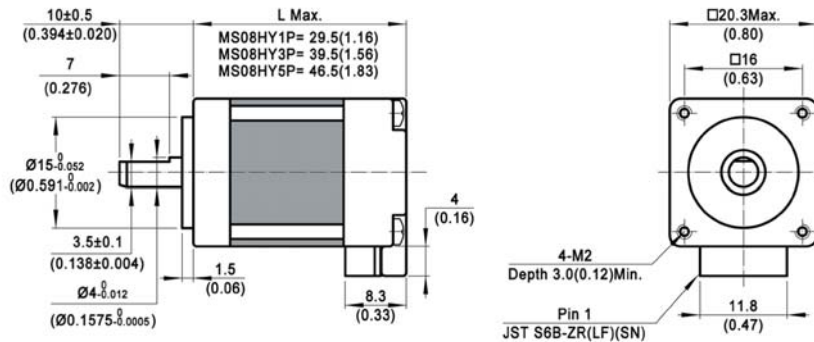
### Number of Connections

- 4 4 Lead-Bipolar
- 6 6 Lead-Unipolar (or Bipolar)

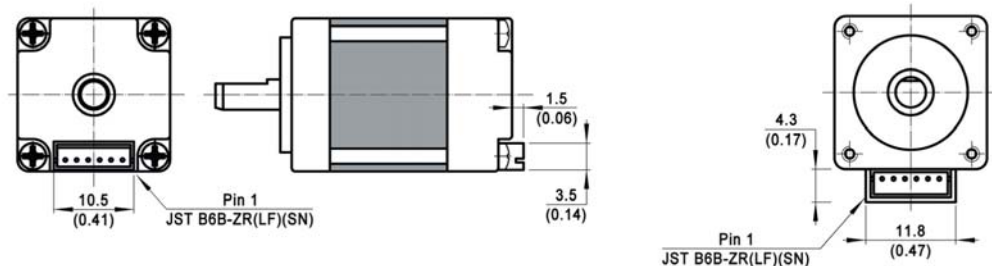
Dimensions: mm (in)



Mating Connector with 4 Leads: 300 (12) long (order separately) Part Number: 4634 1402 03659



Motor with side facing "P" Plug



Rear facing "R" connector detail

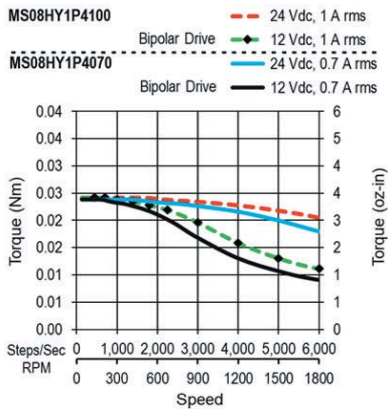
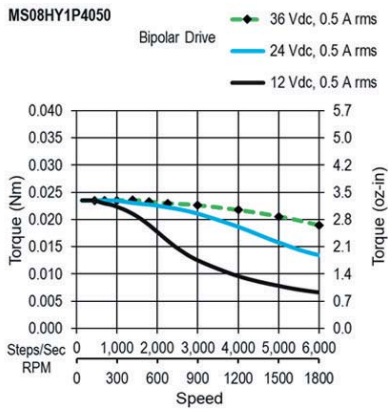
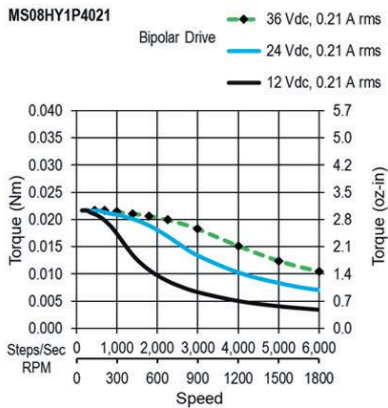
Font facing "F" connector detail

MS08HY - 4 Lead Bi-Polar

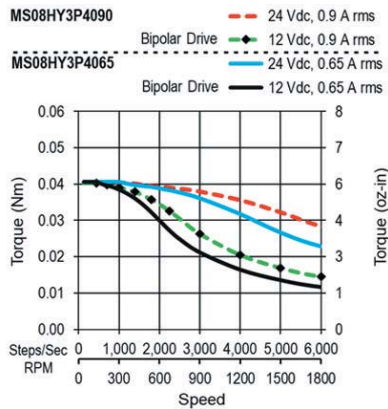
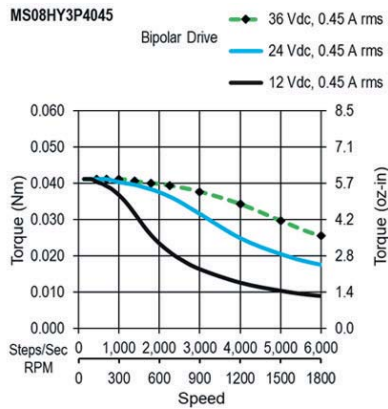
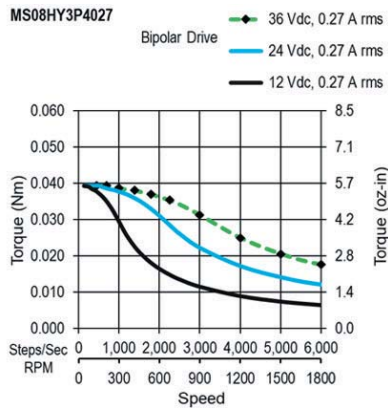
| Length              | Model Number | Connect                | Rated Current  | Holding Torque |            | Winding Ohms mH |      | Detent Torque |       | Rotor Inertia     |                    | Motor Weight |       |
|---------------------|--------------|------------------------|----------------|----------------|------------|-----------------|------|---------------|-------|-------------------|--------------------|--------------|-------|
|                     | Single Shaft | P=Side Plug<br>L=Leads | Amps (mounted) | Nm Typ.        | oz-in TYP. | @20 C           | Typ. | mNm           | oz-in | g cm <sup>2</sup> | oz-in <sup>2</sup> | kg           | Lbs   |
| 29.5mm<br>(1.16in.) | MS08HY1P4021 | P                      | 0.21           | 0.028          | 4.0        | 45              | 21   | 1.5           | 0.21  | 1.6               | 0.0088             | 0.04         | 0.088 |
|                     | MS08HY1P4050 | P                      | 0.5            | 0.030          | 4.2        | 8.8             | 4.7  |               |       |                   |                    |              |       |
|                     | MS08HY1P4070 | P                      | 0.7            | 0.030          | 4.2        | 4.1             | 2.3  |               |       |                   |                    |              |       |
|                     | MS08HY1P4100 | P                      | 1              | 0.030          | 4.2        | 2.3             | 1.17 |               |       |                   |                    |              |       |
| 39.5mm<br>(1.56in.) | MS08HY3P4027 | P                      | 0.27           | 0.048          | 6.8        | 35              | 18.8 | 2             | 0.28  | 2.9               | 0.016              | 0.06         | 0.13  |
|                     | MS08HY3P4045 | P                      | 0.45           | 0.050          | 7.1        | 13.1            | 7.6  |               |       |                   |                    |              |       |
|                     | MS08HY3P4065 | P                      | 0.65           | 0.050          | 7.1        | 6.1             | 3.7  |               |       |                   |                    |              |       |
|                     | MS08HY3P4090 | P                      | 0.9            | 0.050          | 7.1        | 3.4             | 1.91 |               |       |                   |                    |              |       |
| 46.5mm<br>(1.83in.) | MS08HY5P4028 | P                      | 0.28           | 0.057          | 8.1        | 34              | 24   | 2.5           | 0.35  | 4.2               | 0.023              | 0.08         | 0.18  |
|                     | MS08HY5P4040 | P                      | 0.4            | 0.058          | 8.2        | 16.7            | 12.3 |               |       |                   |                    |              |       |
|                     | MS08HY5P4060 | P                      | 0.6            | 0.058          | 8.2        | 7.4             | 5.6  |               |       |                   |                    |              |       |
|                     | MS08HY5P4090 | P                      | 0.9            | 0.057          | 8.1        | 3.7             | 2.4  |               |       |                   |                    |              |       |

^ Preferred model

MS08HY1-Bipolar



MS08HY3-Bipolar



MS08HY5-Bipolar

