# 2 Phase Hybrid Stepper Motor

## 8HY series - Size 20mm (1.8 degree)

### Wiring Diagram:

- **UNI-POLAR (6 LEADS)**
- **BI-POLAR (4 LEADS)**

### Electrical Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Phase Voltage (V)</th>
<th>Phase Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm)</th>
<th>Lead Wires (No.)</th>
<th>Weight (g)</th>
<th>Length (mm)</th>
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<tbody>
<tr>
<td>8HY26-0204A</td>
<td>4.0</td>
<td>0.2</td>
<td>23</td>
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<td>4</td>
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<td>26</td>
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<tr>
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<td>23</td>
<td>8.2</td>
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<td>28</td>
</tr>
<tr>
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<td>3.2</td>
<td>0.9</td>
<td>1.6</td>
<td>4</td>
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<td>28</td>
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<td>2.8</td>
<td>4</td>
<td>80</td>
<td>40</td>
</tr>
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</table>

*Note: We can manufacture products according to customer's requirements.*

### Dimensions: unit=mm

![Dimension Diagram](image)

### Motor Length:

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>8HY23XX</td>
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<tr>
<td>8HY33XX</td>
<td>33 mm</td>
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2 Phase Hybrid Stepper Motor
11HY series-Size 28mm (1.8 degree)

Wiring Diagram:
UNI-POLAR (6 LEADS)          BI-POLAR (4 LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
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</thead>
<tbody>
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*Note: We can manufacture products according to customer's requirements.

Dimensions: unit=mm

Motor Length:

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<tr>
<td>11HY5XXX</td>
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2 Phase Hybrid Stepper Motor
14HM series-Size 35mm(0.9 degree)

Wiring Diagram:

UNI-POLAR(6 LEADS)        BI-POLAR(4LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
</tr>
</thead>
<tbody>
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<td>0.8</td>
<td>4.5</td>
<td>4.2</td>
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<td>0.3</td>
<td>12</td>
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<td>130</td>
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<td>8</td>
<td>0.3</td>
<td>12</td>
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<td>130</td>
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<tr>
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<td>0.8</td>
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<td>14</td>
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<td>18</td>
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<td>190</td>
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<td>0.36</td>
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*Note: We can manufacture products according to customer’s requirements.*

Dimensions: unit=mm

Motor Length:

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<th>Model</th>
<th>Length</th>
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<tbody>
<tr>
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<td>14HM3XXX</td>
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</table>
2 Phase Hybrid Stepper Motor
14HR series-Size 36mm(0.9 degree)

Wiring Diagram:
UNI-POLAR(6 LEADS)        BI-POLAR(4 LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
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</thead>
<tbody>
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<td>0.3</td>
<td>19</td>
<td>4</td>
<td>110</td>
</tr>
</tbody>
</table>

*Note: We can manufacture products according to customer’s requirements.

Dimensions: unit=mm

Motor Length:

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>14HR2XXX</td>
<td>19.7 mm</td>
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2 Phase Hybrid Stepper Motor
14HY series-Size 35mm(1.8 degree)

Wiring Diagram:
UNI-POLAR(6 LEADS)        BI-POLAR(4LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
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<td>18</td>
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<td>9.8</td>
<td>18</td>
<td>1.0</td>
<td>13</td>
<td>4</td>
<td>160</td>
</tr>
<tr>
<td>14HY3630</td>
<td>1.8</td>
<td>34</td>
<td>0.4</td>
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<td>22</td>
<td>12</td>
<td>1.0</td>
<td>13</td>
<td>6</td>
<td>160</td>
</tr>
</tbody>
</table>

*Note: We can manufacture products according to customer’s requirements.*

Dimensions: unit=mm

Motor Length:

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>14HY0XXX</td>
<td>20 mm</td>
</tr>
<tr>
<td>14HY2XXX</td>
<td>28 mm</td>
</tr>
<tr>
<td>14HY3XXX</td>
<td>34 mm</td>
</tr>
</tbody>
</table>
HB Stepper Motor Catalog

2 Phase Hybrid Stepper Motor
16HM series-Size 39mm(0.9 degree)

Wiring Diagram:

UNI-POLAR(6 LEADS) | BI-POLAR(4LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

*Note: We can manufacture products according to customer's requirements.

Dimensions: unit=mm

Motor Length:

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
</tr>
</thead>
<tbody>
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</tr>
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<td>16HM2XXX</td>
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<td>16HM3XXX</td>
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<tr>
<td>16HM4XXX</td>
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</table>
2 Phase Hybrid Stepper Motor
16HY series-Size 39mm (1.8 degree)

Wiring Diagram:

UNI-POLAR (6 LEADS)

BI-POLAR (4 LEADS)

Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (g)</th>
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*Note: We can manufacture products according to customer's requirements.

Dimensions: unit=mm

Motor Length:

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# 2 Phase Hybrid Stepper Motor

## 17HK series-Size 42mm (0.9 degree)

### Wiring Diagram:

- **UNI-POLAR (6 LEADS)**
- **BI-POLAR (4 LEADS)**

### Electrical Specifications:

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<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
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*Note: We can manufacture products according to customer's requirements.*

### Dimensions: unit=mm

![Dimensions Diagram]

### Motor Length:

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# 2 Phase Hybrid Stepper Motor
## 17HS series-Size 42mm (1.8 degree)

### Wiring Diagram:

- **UNI-POLAR (6 LEADS)**
- **BI-POLAR (4 LEADS)**

### Electrical Specifications:

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<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
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*Note: We can manufacture products according to customer's requirements.*

### Dimensions: unit=mm

- Motor Length:
  - Model | Length
  - 17HS2XXX | 28 mm
  - 17HS3XXX | 34 mm
  - 16HS4XXX | 40 mm
  - 16HS8XXX | 48 mm
### 2 Phase Hybrid Stepper Motor

#### 23HK series-Size 57mm (0.9 degree)

**Wiring Diagram:**

UNI-POLAR(6 LEADS)        BI-POLAR(4 LEADS)

---

**Electrical Specifications:**

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
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*Note: We can manufacture products according to customer’s requirements.*
**Dimensions: unit=mm**

- Model Length
  - 23HK0XXX 41 mm
  - 23HK4XXX 45 mm
  - 23HK5XXX 51 mm
  - 23HK6XXX 56 mm
  - 23HK7XXX 64 mm
  - 23HK8XXX 76 mm
## 2 Phase Hybrid Stepper Motor
### 23HS series-Size 57mm(1.8 degree)

#### Wiring Diagram:

- **UNI-POLAR (6 LEADS)**
- **BI-POLAR (4 LEADS)**

#### Electrical Specifications:

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
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*Note: We can manufacture products according to customer’s requirements.*
Dimensions: unit=mm

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2 Phase Hybrid Stepper Motor
23HY series-Size 57mm (1.8 degree)

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*Note: We can manufacture products according to customer's requirements.*
### Dimensions: unit=mm

- **Model**: 23HY4XXX, **Length**: 41 mm
- **Model**: 23HY5XXX, **Length**: 51 mm
- **Model**: 23HY6XXX, **Length**: 56 mm
- **Model**: 23HY7XXX, **Length**: 76 mm
2 Phase Hybrid Stepper Motor
24HS series-Size 60mm(1.8 degree)

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*Note: We can manufacture products according to customer's requirements.

Dimensions: unit:mm

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## 2 Phase Hybrid Stepper Motor

### 34HS series-Size 86mm (1.8 degree)

**Wiring Diagram:**

- UNI/BI-POLAR (8 LEADS)
- BI-POLAR (4 LEADS)

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*Note:

1) We can manufacture products according to customer's requirements.

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Dimensions: unit=mm

Motor Length:

<table>
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<th>Model</th>
<th>Length</th>
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# 2 Phase Hybrid Stepper Motor

## 34HM series-Size 86mm (0.9 degree)

### Wiring Diagram:

- **UNI/BI-POLAR (8 LEADS)**
- **BI-POLAR (4 LEADS)**

### Electrical Specifications (UNI-POLAR):

<table>
<thead>
<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.cm Min)</th>
<th>Detent Torque (N.cm Max)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (kg)</th>
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</table>

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HB Stepper Motor Catalog

Dimensions: unit=mm

Motor Length:

<table>
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<tr>
<th>Model</th>
<th>Length</th>
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<tbody>
<tr>
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# 2 Phase Hybrid Stepper Motor
## 34HY series - Size 86mm (1.8 degree)

### Wiring Diagram:

![Wiring Diagram](image)

### Electrical Specifications (UNI-POLAR):

<table>
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<tr>
<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
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<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
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</tbody>
</table>

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### Dimensions: unit=mm

![Dimensions](image)

### Moto Length:

<table>
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<th>Model</th>
<th>Length</th>
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2 Phase Hybrid Stepper Motor
43HS series-Size 110mm(1.8 degree)

Electrical Specifications (BI-POLAR):

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<th>Series Model</th>
<th>Step Angle (deg)</th>
<th>Motor Length (mm)</th>
<th>Rated Current (A)</th>
<th>Phase Resistance (ohm)</th>
<th>Phase Inductance (mH)</th>
<th>Holding Torque (N.m Min)</th>
<th>Rotor Inertia (g.cm²)</th>
<th>Lead Wire (No.)</th>
<th>Motor Weight (kg)</th>
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Dimensions: unit=mm

Motor Length:

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