

# Stepping Motor & Driver

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B900Type

## KH56

New

1.8°/step

□ 56mm



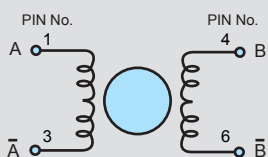
### SINGLE SHAFT

| MODEL         |
|---------------|
| KH5640-B95101 |
| KH5640-B95201 |
| KH5652-B95101 |
| KH5652-B95201 |
| KH5674-B95101 |
| KH5674-B95201 |

### OPTION

|                 |
|-----------------|
| KH56LBS300_6PIN |
|-----------------|

### CONNECTION DIAGRAMS



| XHP-6 (PIN NO.) | 1   | 3    | 4      | 6     |
|-----------------|-----|------|--------|-------|
| PHASE           | A   | Ā   | B      | B̄    |
| COLOR OF LEAD   | RED | BLUE | YELLOW | WHITE |

CW viewed from rotor shaft when using the following sequence diagram.

### EXCITATION SEQUENCE

| PHASE | 1 | 2 | 3 | 4 |
|-------|---|---|---|---|
| A     | + | + | - | - |
| B     | - | + | + | - |
| Ā    | - | - | + | + |
| B̄    | + | - | - | + |

### CONNECTOR SPECIFICATIONS

|                     |                 |
|---------------------|-----------------|
| Maker               | JST             |
| Applicable Housing  | XHP-6           |
| Applicable Terminal | SXH-001T-P0.6   |
| Lead Wire           | AWG#22 , UL3266 |

# 2-Phase Hybrid Stepping Motor KH56 Series

### FEATURES

- High Torque (Up at Peak time 15 to 20% higher than our previous products)

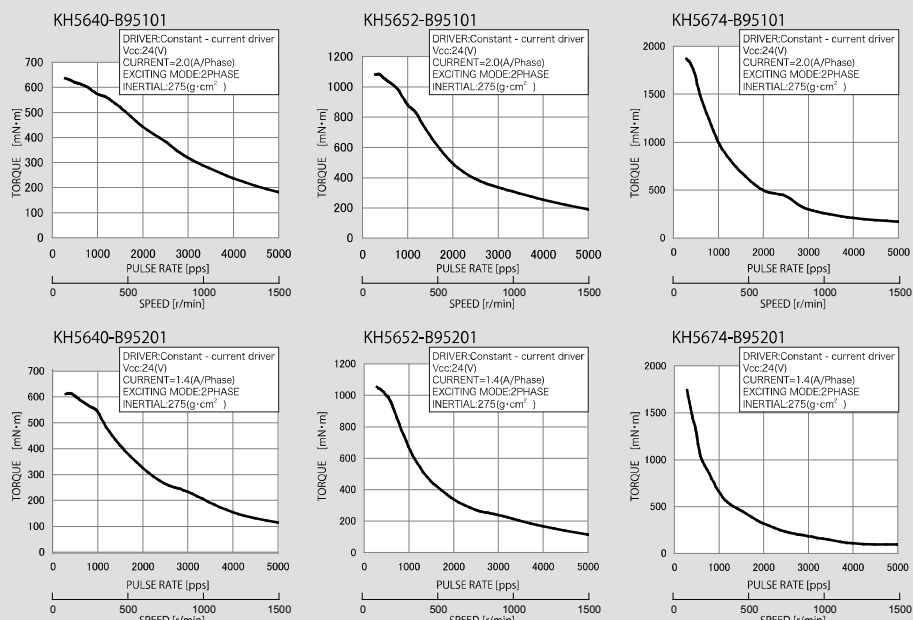
### SPECIFICATIONS

| STEP ANGLE | VOLTAGE | CURRENT | WINDING RESISTANCE | INDUCTANCE | HOLDING TORQUE (Measured value) | ROTOR INERTIA       | MODEL         |
|------------|---------|---------|--------------------|------------|---------------------------------|---------------------|---------------|
| ° /step    | V       | A/PHASE | Ω/PHASE            | mH/PHASE   | mN · m                          | g · cm <sup>2</sup> |               |
| 1.8        | 2.4     | 2.0     | 1.2                | 3.1        | (780)                           | 170                 | KH5640-B95101 |
| 1.8        | 3.5     | 1.4     | 2.5                | 6.0        | (780)                           | 170                 | KH5640-B95201 |
| 1.8        | 3.36    | 2.0     | 1.68               | 4.5        | (1310)                          | 310                 | KH5652-B95101 |
| 1.8        | 4.9     | 1.4     | 3.5                | 8.8        | (1310)                          | 310                 | KH5652-B95201 |
| 1.8        | 5.2     | 2.0     | 2.6                | 7.2        | (2270)                          | 530                 | KH5674-B95101 |
| 1.8        | 7.42    | 1.4     | 5.3                | 13.9       | (2270)                          | 530                 | KH5674-B95201 |

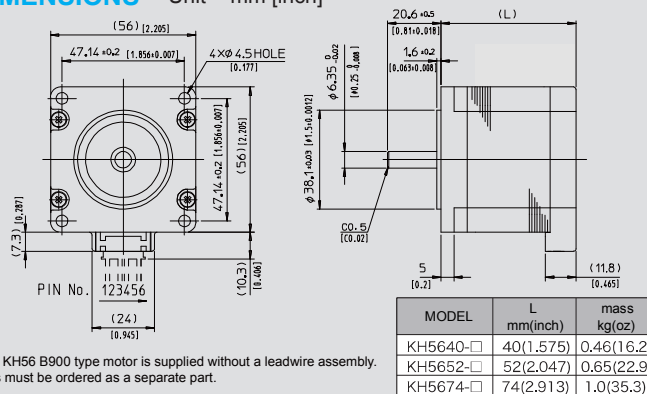
### [GENERAL SPECIFICATIONS]

|                            |  |
|----------------------------|--|
| INSULATION RESISTANCE      | 500V DC 100MΩ min. (at normal temp.& humidity,between lead and case) |
| DIELECTRIC STRENGTH        | 500V AC 50Hz 1min. (at normal temp.& humidity,between lead and case) |
| AMBIENT TEMP. AND HUMIDITY | -10°C~+50°C, 5%~95%RH (noncondensing)                                |
| STORAGE TEMP. AND HUMIDITY | -20°C~+70°C, 5%~95%RH (noncondensing)                                |
| TEMPERATURE RISE           | 70K max (By resistance method)                                       |
| POSITION ACCURACY          | ±10%   |

### SPEED-TORQUE CHARACTERISTICS



### DIMENSIONS Unit = mm [inch]



The KH56 B900 type motor is supplied without a leadwire assembly. This must be ordered as a separate part.

### OPTION (Leadwire Assembly)

