

Hybrid Stepping Motor Standard Type

ハイブリッドステッピングモータ 標準品シリーズ



▶ 短納期対応・個装梱包

▶ Short Leadtime and Individually Packaged

■ ラインナップ Lineup

標準タイプ 1.8度ステップ Standard Type 1.8-degree/step

*00VS, 00V, 00W は片軸, 99VS, 99V, 99W は両軸
*00VS, 00V, 00W : Single shaft 99VS, 99V, 99W : Double shaft

| 型式 Model | モーターサイズ | ステップ角 Step Angle | 定格電流 Rated Current | 巻線抵抗 Resistance | ホールディングトルク Holding Torque | インダクタンス Inductance | ロータイナーシャ Rotor Inertia | ディテントトルク Detent Torque | 質量 Mass | 許容ラジアル荷重 Permissible Radial Load | 許容スラスト荷重 Permissible Thrust Load |
|---------------------|---------|---------------------|-----------------------|--------------------|------------------------------|-----------------------|---------------------------|---------------------------|------------|-------------------------------------|---|
| | (mm) | | | | | | | | | | |
| 17PM-K053-00VS/99VS | □42×34 | 1.8 | 0.85 | 4.2 | 170 | 6.3 | 37 | 11 | 200 | 20 | モータ自重以下 The permissible thrust load shall be no greater than the motor mass. |
| 17PM-K845-00VS/99VS | □42×40 | 1.8 | 1.2 | 2.9 | 270 | 4.0 | 55 | 12 | 300 | | |
| 17PM-K858-00VS/99VS | □42×40 | 1.8 | 0.75 | 7.4 | 270 | 10.0 | 55 | 12 | 300 | | |
| 17PM-K444-00VS/99VS | □42×48 | 1.8 | 1.2 | 3.3 | 340 | 4.1 | 75 | 20 | 350 | | |
| 17PM-K455-00VS/99VS | □42×48 | 1.8 | 0.8 | 7.3 | 340 | 9.7 | 75 | 20 | 350 | | |
| 23KM-K267-00V/99V | □56×42 | 1.8 | 0.9 | 5.8 | 480 | 8.2 | 120 | 20 | 470 | 54 | |
| 23KM-K251-00V/99V | □56×42 | 1.8 | 1.8 | 1.5 | 480 | 2.4 | 120 | 20 | 470 | | |
| 23KM-K244-00V/99V | □56×42 | 1.8 | 2.9 | 0.6 | 480 | 0.9 | 120 | 20 | 470 | | |
| 23KM-K066-00V/99V | □56×54 | 1.8 | 1.0 | 7 | 900 | 15.1 | 200 | 34 | 680 | | |
| 23KM-K049-00V/99V | □56×54 | 1.8 | 2.0 | 1.8 | 900 | 3.5 | 200 | 34 | 680 | | |
| 23KM-K044-00V/99V | □56×54 | 1.8 | 3.0 | 0.85 | 900 | 1.7 | 200 | 34 | 680 | 260 | |
| 23KM-K762-00V/99V | □56×76 | 1.8 | 1.0 | 8.6 | 1,400 | 17.3 | 360 | 50 | 1,050 | | |
| 23KM-K748-00V/99V | □56×76 | 1.8 | 2.0 | 2.3 | 1,400 | 4.8 | 360 | 50 | 1,050 | | |
| 23KM-K743-00V/99V | □56×76 | 1.8 | 3.0 | 1.1 | 1,400 | 2.2 | 360 | 50 | 1,050 | | |
| 34KM-K023-00W/99W | □85×68 | 1.8 | 1.9 | 2.8 | 2,500 | 8.7 | 1,200 | 90 | 1,800 | | |
| 34KM-K012-00W/99W | □85×68 | 1.8 | 3.0 | 1.1 | 2,500 | 3.4 | 1,200 | 90 | 1,800 | 260 | |
| 34KM-K006-00W/99W | □85×68 | 1.8 | 4.8 | 0.45 | 2,500 | 1.6 | 1,200 | 90 | 1,800 | | |
| 34KM-K122-00W/99W | □85×96 | 1.8 | 1.9 | 3.9 | 4,800 | 15.8 | 2,400 | 140 | 2,900 | | |
| 34KM-K112-00W/99W | □85×96 | 1.8 | 3.0 | 1.50 | 4,800 | 6.9 | 2,400 | 140 | 2,900 | | |
| 34KM-K106-00W/99W | □85×96 | 1.8 | 4.8 | 0.65 | 4,800 | 3.2 | 2,400 | 140 | 2,900 | | |
| 34KM-K221-00W/99W | □85×124 | 1.8 | 2.0 | 4.9 | 6,700 | 21.8 | 3,700 | 190 | 4,000 | 260 | |
| 34KM-K206-00W/99W | □85×124 | 1.8 | 4.8 | 0.85 | 6,700 | 4.5 | 3,700 | 190 | 4,000 | | |

*ドライブ方式：ユニポーラ *Drive Sequence : Unipolar

*許容ラジアル荷重は軸先端

*Permissible radial load is at the end of shaft

高分解能タイプ 0.9度ステップ High-resolution Type 0.9-degree/step

*00VS は片軸, 99VS は両軸 *00VS : Single shaft 99VS : Double shaft

| 型式 Model | モーターサイズ | ステップ角 Step Angle | 定格電流 Rated Current | 巻線抵抗 Resistance | ホールディングトルク Holding Torque | インダクタンス Inductance | ロータイナーシャ Rotor Inertia | ディテントトルク Detent Torque | 質量 Mass | 許容ラジアル荷重 Permissible Radial Load | 許容スラスト荷重 Permissible Thrust Load |
|---------------------|---------|---------------------|-----------------------|--------------------|------------------------------|-----------------------|---------------------------|---------------------------|------------|-------------------------------------|---|
| | (mm) | | | | | | | | | | |
| 17PY-Z053-00VS/99VS | □42×34 | 0.9 | 0.85 | 4.2 | 160 | 8.0 | 37 | 11 | 200 | 20 | モータ自重以下 The permissible thrust load shall be no greater than the motor mass. |
| 17PY-Z845-00VS/99VS | □42×40 | 0.9 | 1.2 | 2.9 | 260 | 5.3 | 55 | 17 | 300 | | |
| 17PY-Z858-00VS/99VS | □42×40 | 0.9 | 0.75 | 7.4 | 260 | 13.5 | 55 | 17 | 300 | | |
| 17PY-Z444-00VS/99VS | □42×48 | 0.9 | 1.2 | 3.3 | 330 | 5.6 | 75 | 24 | 350 | | |
| 17PY-Z455-00VS/99VS | □42×48 | 0.9 | 0.8 | 7.3 | 330 | 12.8 | 75 | 24 | 350 | | |

*ドライブ方式：ユニポーラ *Drive Sequence : Unipolar

*許容ラジアル荷重は軸先端

*Permissible radial load is at the end of shaft

71〇標準タイプ 1.8度ステップ 71〇Standard Type 1.8-degree/step

*00V は片軸, 99V は両軸 *00V : Single shaft 99V : Double shaft

| 型式 Model | モーターサイズ | ステップ角 Step Angle | 定格電流 Rated Current | 巻線抵抗 Resistance | ホールディングトルク Holding Torque | インダクタンス Inductance | ロータイナーシャ Rotor Inertia | ディテントトルク Detent Torque | 質量 Mass | 許容ラジアル荷重 Permissible Radial Load | 許容スラスト荷重 Permissible Thrust Load |
|-------------------|----------|---------------------|-----------------------|--------------------|------------------------------|-----------------------|---------------------------|---------------------------|------------|-------------------------------------|---|
| | (mm) | | | | | | | | | | |
| 29SM-K550-00V/99V | ○71×39.5 | 1.8 | 1.5 | 2.1 | 380 | 3.1 | 165 | 12 | 570 | 54 | モータ自重以下 The permissible thrust load shall be no greater than the motor mass. |
| 29SM-K250-00V/99V | ○71×43.5 | 1.8 | 1.6 | 2.0 | 580 | 3.3 | 220 | 22 | 660 | | |
| 29SM-K379-00V/99V | ○71×51.5 | 1.8 | 1.9 | 1.75 | 820 | 3.0 | 330 | 30 | 820 | | |
| 29SM-K035-00V/99V | ○71×55.5 | 1.8 | 2.2 | 1.55 | 900 | 2.5 | 390 | 35 | 900 | | |
| 29SM-K138-00V/99V | ○71×67.5 | 1.8 | 2.6 | 1.25 | 1,200 | 2.9 | 515 | 40 | 1,180 | | |
| 29SM-K711-00V/99V | ○71×77.5 | 1.8 | 3.0 | 1.0 | 1,450 | 2.1 | 660 | 60 | 1,390 | | |

*ドライブ方式：ユニポーラ *Drive Sequence : Unipolar

*許容ラジアル荷重は軸先端

*Permissible radial load is at the end of shaft

*全モデルリード線付属

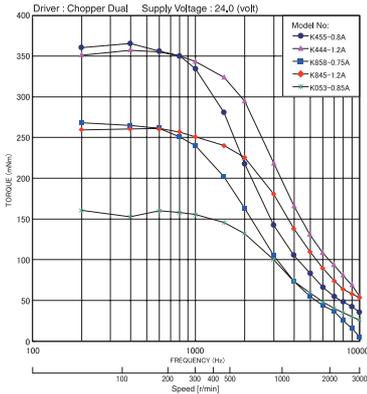
*Leadwires will be supplied with the motor

■ 一般仕様 General Specifications

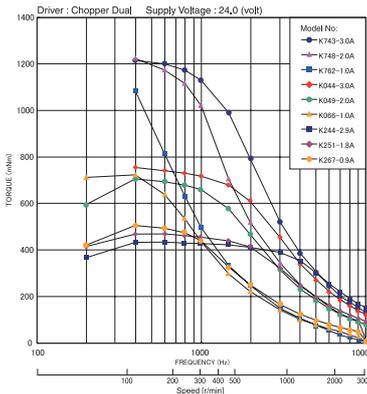
| | | |
|---------|---------------------------|-------------------------------------|
| 静止角度誤差 | Step Accuracy | ±5% |
| 温度上昇 | Temperature Rise | 80°C MAX |
| 使用周囲温度 | Ambient Temperature Range | -10°C ~ +50°C |
| 絶縁抵抗 | Insulation Resistance | 100M Ω MIN. DC 500V |
| 絶縁耐力 | Dielectric Strength | AC 500V 1min |
| ラジアルプレイ | Radial Play | 20 μm MAX. (at 4.4N {450gf} [Load]) |
| エンドプレイ | End Play | 80 μm MAX. (at 4.4N {450gf} [Load]) |

トルク・スピード特性 Torque/Speed Characteristics

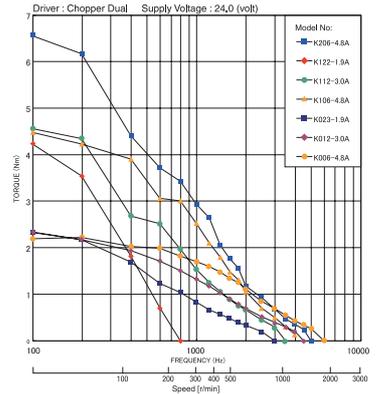
17PM (□42 1.8°)



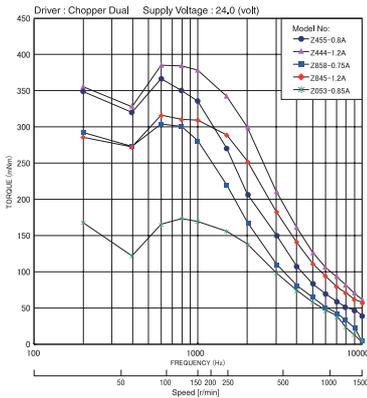
23KM (□56 1.8°)



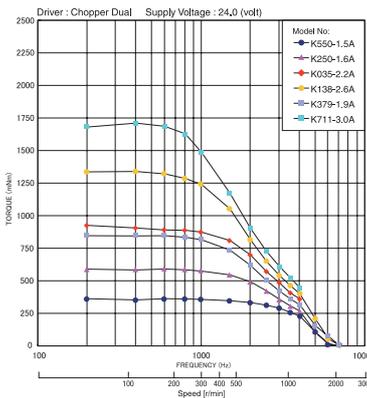
34KM (□85 1.8°)



17PY (□42 0.9°)



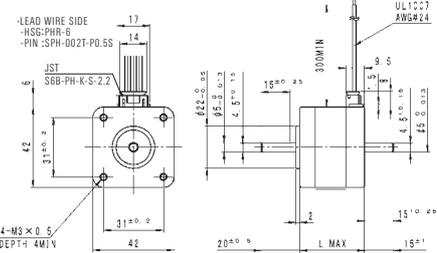
29SM (○71 1.8°)



外観図 Outline

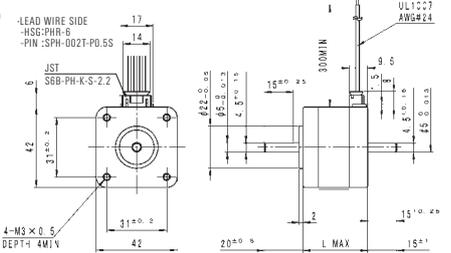
17PM (□42 1.8°)

| Model | Length | UNIT:mm |
|-----------|--------|---------|
| 17PM-X0XX | 34 | |
| 17PM-X8XX | 40 | |
| 17PM-X4XX | 48 | |



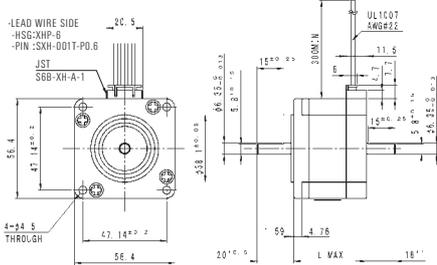
17PY (□42* 0.9°)

| Model | Length | UNIT:mm |
|-----------|--------|---------|
| 17PY-X0XX | 34 | |
| 17PY-X8XX | 40 | |
| 17PY-X4XX | 48 | |



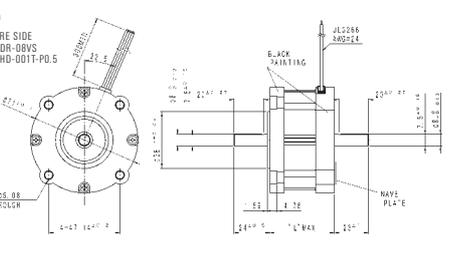
23KM (□56 1.8°)

| Model | Length | UNIT:mm |
|-----------|--------|---------|
| 23KM-K2XX | 42 | |
| 23KM-K0XX | 54 | |
| 23KM-K7XX | 76 | |



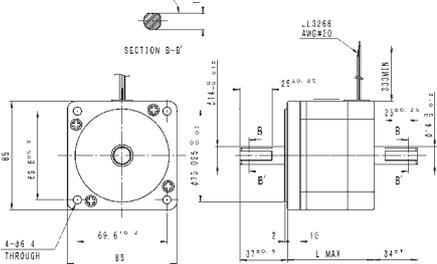
29SM (○71 1.8°)

| Model | Length | UNIT:mm |
|-----------|--------|---------|
| 29SM-K5XX | 39.5 | |
| 29SM-K2XX | 43.5 | |
| 29SM-K3XX | 51.5 | |
| 29SM-K0XX | 55.5 | |
| 29SM-K1XX | 67.5 | |
| 29SM-K7XX | 77.5 | |



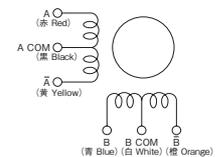
34KM (□85 1.8°)

| Model | Length | UNIT:mm |
|-----------|--------|---------|
| 34KM-K0XX | 68 | |
| 34KM-K1XX | 96 | |
| 34KM-K2XX | 124 | |



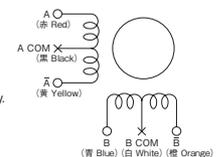
ユニポラ結線図

UNI POLAR Wiring Connection Diagram



バイポラ結線図

BI POLAR Wiring Connection Diagram



* A COM, B COMは使用しません。別々に絶縁処理してください。
 * No need to connect A COM and B COM. Please insulate individually.

* ユニポラの定格電流値の70%でご使用ください。
 * Apply 70% of Unipolar rated current.