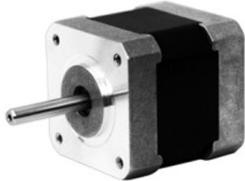
**1.8° 42MM Hybrid Stepping Motor**



|  |  |
| --- | --- |
| **Item** | **Specifications** |
| Step Angle | 1.8° |
| Step Angle Accuracy | ±5% (full step noload) |
| Resistance Accuracy | ±10% |
| Inductance Accuracy | ±20% |
| Temperature Rise | 80°C Max. (rated current,2 phase on) |
| Ambient Temperature | -20°C- +50°C |
| Insulation Resistance | 100M 0 Min..500VDC |
| Dielectric Strength | 500VAC/for one minute |
| Shaft Radial Play | 0.02Max. (4508-load) |
| Shaft Axial Play | 0.08Max. (450g-load) |
| Max,radial force | 28N (20mm loom the flange) |
| Max.axial force | 10N |

**Hybrid Stepping Motor Specifications**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Rated Voltage** | **Current /Phase** | **Resistance /Phase** | **Inductance** | **Holding Torque** | **# of Leads** | **Rotor Inertia** | **Weight** | **Detent Torque** | **Length** |
| V | A | W | mH | kg- cm |  | g-cm² | kg | g-cm | mm |
| XY42STH25-0404A | 9.6 | 0.4 | 24.0 | 36 | 1.7 | 4 | 35 | 0.22 | 120 | 34 |
| XY42STH34-0956A | 4.0 | 0.95 | 4.2 | 2.5 | 1.6 | 6 |
| XY42STH34-0406A | 9.6 | 0.4 | 24.0 | 15 | 1.6 | 6 |
| XY42S1H34-0316A | 12.0 | 0.31 | 38.5 | 21 | 1.6 | 6 |
| XY42S1H34-1334A | 2.8 | 1.33 | 2.1 | 2.5 | 2.2 | 4 |
| XY42STH40-1206A | 4.0 | 1.2 | 3.3 | 3.2 | 2.6 | 6 | 54 | 0.28 | 150 | 40 |
| XY42STH40-0806A | 6.0 | 0.8 | 7.5 | 6.7 | 2.6 | 6 |
| XY42STH40-0406A | 12.0 | 0.4 | 30.0 | 30 | 2.6 | 6 |
| XY42STH40-1684A | 2.8 | 1.68 | 1.65 | 3.2 | 3.6 | 4 |
| XY42STH48-1206A | 4.0 | 1.2 | 3.3 | 2.8 | 3.17 | 6 | 68 | 0.35 | 200 | 48 |
| XY42STH48-0806A | 6.0 | 0.8 | 7.5 | 6.3 | 3.17 | 6 |
| XY42STH48-0406A | 12.0 | 0.4 | 30.0 | 25 | 3.17 | 6 |
| XY42STH48-1684A | 2.8 | 1.68 | 1.65 | 2.8 | 4.4 | 4 |
| XY42STH60-1206A | 7.2 | 1.2 | 6.0 | 7 | 6.5 | 6 | 102 | 0.5 | 280 | 60 |