Hybrid Linear Actuators

42BYGL Series

Hybrid Stepping Motor Series

General Specifications

| Step Accuracy | ±5% | | | | | |
|----------------------------------|-----------------------------|--|--|--|--|--|
| Temperature Rise | 80°C Max | | | | | |
| Ambient Temperature Range | -20°C ~ +50°C | | | | | |
| Insulation Resistance | 100 M Ω Min. 500 VDC | | | | | |
| Dielectric Strength | 500 VAC 1s | | | | | |
| Customized solutions on request. | | | | | | |

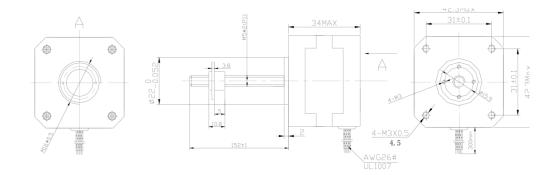




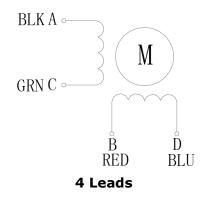
Electrical Specifications

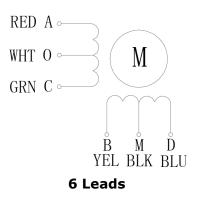
| Model | Step distance | Motor Length | Rate Voltage | Rate Current | Phase Resistance | Phase Inductance | Holding Torque | Detent Torque | Rotor Inertia | Lead Wire | Motor Weight |
|------------|------------------|-----------------|-----------------|-----------------|---------------------|---------------------|-------------------|------------------|-------------------|--------------|-----------------|
| | mm/step | L (mm) | V | Α | Ω | mH | mNm | mNm | kgcm ² | NO. | kg |
| 42BYGHL240 | 0.01 | 34 | 5.4 | 0.8 | 6.7 | 9.5 | 2500 | 19.6 | 0.034 | 4 | 0.2 |
| 42BYGHL602 | 0.02 | 40 | 12 | 0.4 | 26 | 23 | 3000 | 21.6 | 0.054 | 6 | 0.26 |
| 42BYGHL801 | 0.04 | 48 | 12 | 0.4 | 30 | 22 | 3800 | 27.5 | 0.068 | 6 | 0.36 |

Mechanical Dimensions



Connection Diagram





Datasheet-42BYGL Series-15A-JB



The specifications are believed to be accurate and reliable. However, the suitability has to be determined for a specific application. Specifications are subject to change without notice.