

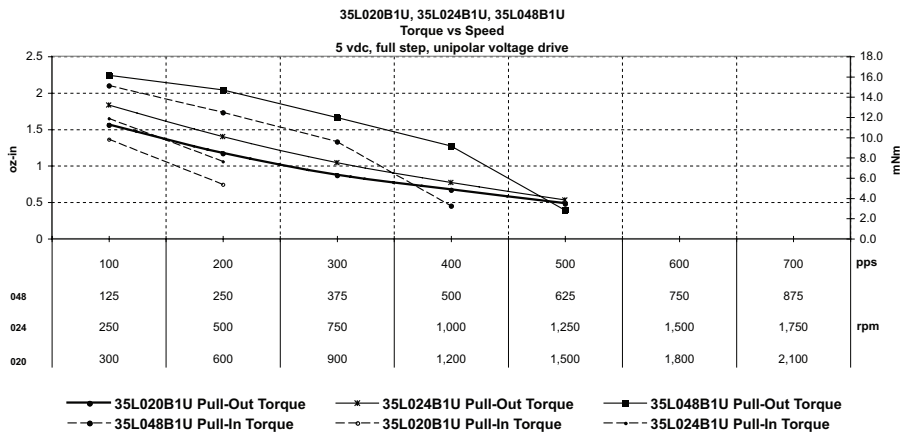
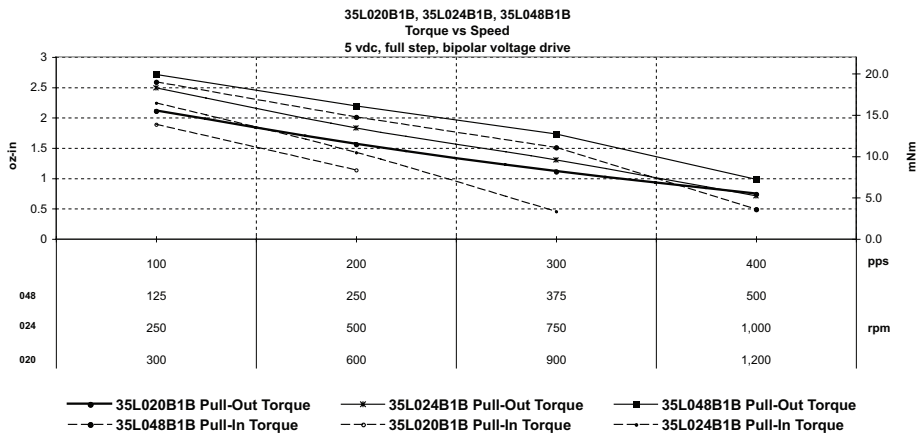
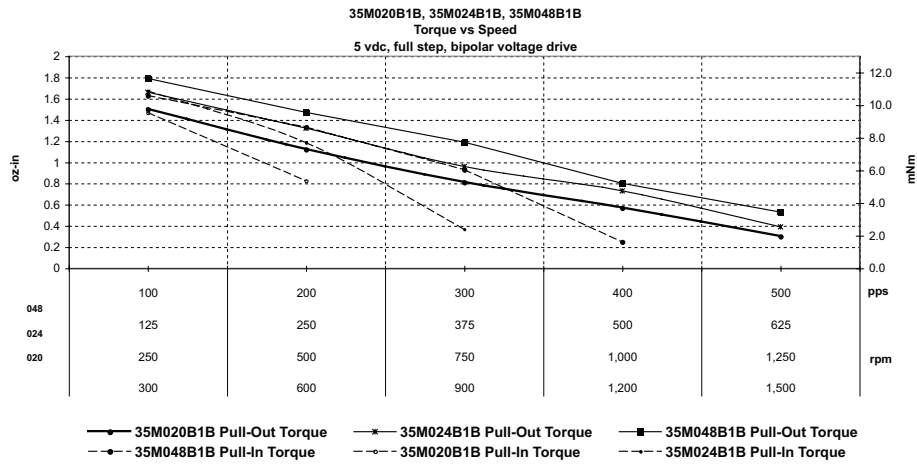
35L048B

Technical Specifications

| Part Number | Unipolar | | Bipolar | | |
|----------------------------------|---|--------------------------|-----------|-----------|-------|
| | 35L048B1U | 35L048B2U | 35L048B1B | 35L048B2B | |
| Rated voltage | (vdc) | 5 | 12 | 5 | 12 |
| Resistance per phase $\pm 10\%$ | (ohms) | 11.00 | 64.00 | 11.00 | 64.00 |
| Inductance per phase, Typ | (mH) | 7.80 | 40.00 | 15.00 | 72.00 |
| Rated current per phase * | (amps) | 0.45 | 0.19 | 0.45 | 0.19 |
| Holding torque, min * | (oz-in / mNm) | 3.5 / 25 | | 4.0 / 28 | |
| Step angle * | (degrees) | $7.5 \pm 0.5^\circ$ | | | |
| Steps per revolution * | | 48 | | | |
| Detent torque, max | (oz-in / mNm) | 0.60 / 4.2 | | | |
| Thermal resistance | ($^\circ\text{C} / \text{watt}$) | N.A. | | | |
| Rotor moment of inertia | (oz-in-s ² / g-cm ²) | 0.00006 / 4 | | | |
| Ambient temperature range | | | | | |
| Operating | ($^\circ\text{C}$) | -20 ~ +70 | | | |
| Storage | ($^\circ\text{C}$) | -40 ~ +85 | | | |
| Bearing type | | | | | |
| Sintered Bronze Sleeve | | | | | |
| Insulation resistance at 500vdc | (M Ω) | 100 | | | |
| Dielectric withstanding voltage | (vac) | 650 for 2 seconds | | | |
| Weight | (lbs / g) | .1938 / 88 | | | |
| Shaft load ratings | | | | | |
| Radial | (lbs / kg) | .562 / .255 | | | |
| Axial | (lbs / kg) | .169 / .076 | | | |
| Leadwires | | | | | |
| AWG 26, UL 1430 | | | | | |
| Temperature class, max | ($^\circ\text{C}$) | B(130 $^\circ\text{C}$) | | | |
| RoHS | | Compliant | | | |

All motor data values at 25 $^\circ\text{C}$ unless otherwise specified

* Energise at rated current, 2 phase on



35L SERIES SYNCHRONOUS MOTOR

Technical Specifications

| Part Number | | 35L250B3A | 35L250B5A | 35L250B7A |
|---------------------------------|---|--------------|-------------------------------|--------------|
| Ac operating voltage | (vac) | 24.0 | 120.0 | 240.0 |
| Frequency | (Hz) | 50.0 | 50.0 | 50.0 |
| Speed | (rpm) | 250.0 | 250.0 | 250.0 |
| Direction of rotation | - | Reversible | Reversible | Reversible |
| Synchronous torque | (oz-in / mNm) | 1.50 / 10.59 | 1.50 / 10.59 | 1.50 / 10.59 |
| Capacitance | (μ F) | 3.3 | 0.15 | 0.039 |
| Rotor moment of inertia | (oz-in-s ² / g-cm ²) | | 0.0219 / 4 | |
| Weight | (lbs / g) | | 0.1938 / 88 | |
| Leadwires | | | AWG 26, UL 1430 | |
| Ambient temperature range | Operating (°C) | | -20 ~ +70 | |
| | Storage (°C) | | -40 ~ +85 | |
| Bearing type | | | Sintered Bronze Sleeve | |
| Insulation resistance at 500vdc | (Mohms) | | 100 | |
| Dielectric withstanding voltage | (vac) | | 1250 \pm 50 VRMS, 2 seconds | |
| Temperature class, max | (°C) | | B(130°C) | |
| RoHS | | | Compliant | |

All motor data values at 25°C unless otherwise specified

35L SERIES SYNCHRONOUS MOTOR

Technical Specifications

| Part Number | | 35L300B3A | 35L300B5A | 35L300B7A |
|---------------------------------|---|--------------|-------------------------------|--------------|
| Ac operating voltage | (vac) | 24.0 | 120.0 | 240.0 |
| Frequency | (Hz) | 60.0 | 60.0 | 60.0 |
| Speed | (rpm) | 300.0 | 300.0 | 300.0 |
| Direction of rotation | - | Reversible | Reversible | Reversible |
| Synchronous torque | (oz-in / mNm) | 1.50 / 10.59 | 1.50 / 10.59 | 1.50 / 10.59 |
| Capacitance | (μ F) | 3.3 | 0.15 | 0.039 |
| Rotor moment of inertia | (oz-in-s ² / g-cm ²) | | 0.0219 / 4 | |
| Weight | (lbs / g) | | 0.1938 / 88 | |
| Leadwires | | | AWG 26, UL 1430 | |
| Ambient temperature range | Operating (°C) | | -20 ~ +70 | |
| | Storage (°C) | | -40 ~ +85 | |
| Bearing type | | | Sintered Bronze Sleeve | |
| Insulation resistance at 500vdc | (Mohms) | | 100 | |
| Dielectric withstanding voltage | (vac) | | 1250 \pm 50 VRMS, 2 seconds | |
| Temperature class, max | (°C) | | B(130°C) | |
| RoHS | | | Compliant | |

All motor data values at 25°C unless otherwise specified