

Precision Motion Controls

LNx Linear Series Low-Noise Drive



The LNx drive is a self contained bipolar linear amplifier microstepping drive. The units unique microprocessor controlled multilevel drive eliminates the noise problems associated with pulsewidth modulated drives without sacrificing performance. The drive's low EMI/RFI radiation makes it an ideal choice for noise sensitive precision measurements required in disk testers and sonar measurements.

The standard system receives commands over an RS232 serial port. The drive has a resolution of 25600 steps/rev. The drives velocity is programable from 0.01 to 40 rev/sec. The easy to learn command set allows you to get your applications running quickly. Motor current is programable in 39 mA increments up to 2.5 Amp

Optically isolated limit and home inputs help eliminate ground loops to connecting equipment.

Features

- **RS232 serial input**
- **64 selectable current ranges**
- **Short circuit/temperature protection**
- **Current waveform selection**
- **Optically coupled home and limit inputs**
- **Speeds to 50 rev/sec**
- **Fan-cooled enclosure**
- **95-130 /185-270VAC 50/60Hz AC line isolated supply**
- **Virtually no radiated electrical noise (EMI)**

Drive Specifications

Performance (unloaded motor)

Repeatability: ±5 arc-seconds (unidirectional)
 Accuracy: ±5 arc-minutes (bidirectional)
 Step-to-Step Accuracy: ±20 arc-seconds (unidirectional)

Inputs (optically isolated) 5 to 6.0 VDC, 20 mA

Home Active low level
 Limits 5 - 10 volts

Output: Fault optically isolated

Communication: RS232

Environmental – Operating

Driver: 0 to 60 °C measured at the heatsink
 Motor: 110 °C measured at the motor case
 Ambient: 10 to 40 °C, 0 to 95% humidity,
 non-condensing

Environmental – Storage

Motor + Driver: -40 to +80 °C, 0 to 95% humidity,
 non-condensing

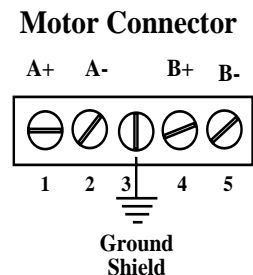
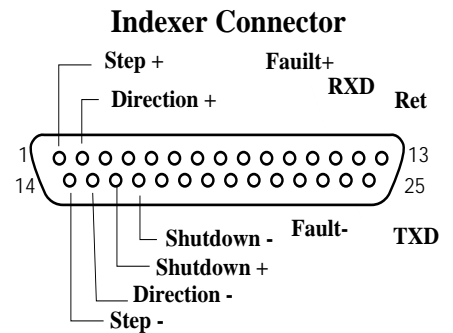
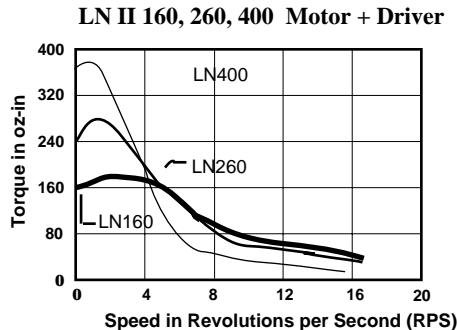
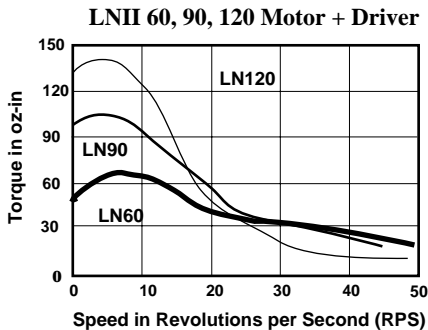
Power 95-130/185-270 VAC 50/60 Hz, 1.2 A

Weight: 14 Lb.

Motor Specifications

Model	LN X-60	LN X-90	LN X-120	LN X-160	LN X-260	LN X-400
Static Torque (oz-in):	60	90	120	150	240	400
Motor size	23	23	23	34	34	34

Double shaft motors are standard add -s suffix for single shaft



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