Stepping Drives

Leadshine

Leadshine 2-phase Digital Stepper Drives

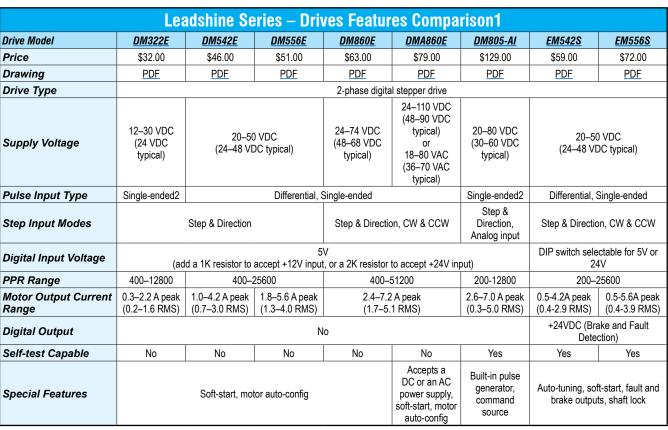
Leadshine has been an industry leading motion control supplier since 1997, and is one of the largest stepper drive manufacturers in the world. Leadshine steppers offer high quality products (Leadshine factories are ISO9001 certified) at very affordable prices. Leadshine steppers are simple, easy to use, long-lasting, and reliable.

AutomationDirect sells a wide range of linear and switching power supplies, stepper motors, cables, and PLCs with hi-speed outputs that are compatible with Leadshine stepper drives.

Features

- 2-phase digital stepper drives
- Anti-resonance for optimal torque, extra smooth motion, low motor heating and noise
- Motor auto-config on power up
- All drives support step and direction control, some models support CW/CCW as well
- Micro-stepping for smooth motor movement
- DIP switch configurable
- Wide range of input voltages supported (12-110 VDC, 18-80 VAC)

- Pulse input frequency up to 200kHz
- Soft-start with no "jump" when powered on
- Automatic idle-current reduction
- Protections for over-voltage and overcurrent
- NEMA 11, 14, 17, 23, 24, 34 and 42 frame size step motors supported



1 - Refer to Specifications Tables for detailed specifications.

2 - See the User Manual or Quick Start Guide for instructions on wiring Single-Ended drives to a Differential (Line Driver) controller.







1-800-633-0405



For the latest prices, please check AutomationDirect.com.

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DM332E

The DM322E is a compact drive capable of pulse and direction operation, with motor auto-configuration on power up.



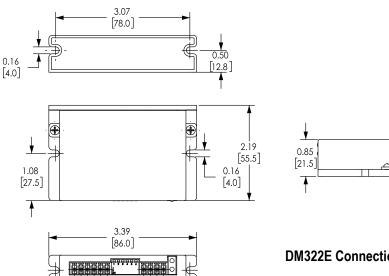
Leadshine DM322E Specifications		
Drive Model		<u>DM322E</u>
Output Current		0.3–2.2 A peak (0.2–1.6 RMS)
Input Voltage		12–30 VDC (24 VDC typical)
Logic Signal Current		7–16 mA (10mA typical)
Pulse Input Frequency		0–70 kHz
Minimal Pulse Width		7.5 µs
Minimal Direction Setup		7.5 µs
Isolation Resistance		100mΩ
Connector P1 Functions	PUL	Pulse signal: 5V signal, single-ended input. High input is 4-5V, Low input is 0-0.5 V. Minimum pulse width = 2.5 µs. Add a 1k□ resistor for +12V signals, 2k□ for +24V signals.
	DIR	DIR signal: 5V signal, single-ended input. High input is 4-5V, Low input is 0-0.5 V. Minimum pulse width = 2.5 µs. Add a 1ki resistor for +12V signals, 2ki for +24V signals. Direction Function: requires 5µs setup time. CW/CCW Function: see DIP switch SW14.
	ΟΡΤΟ	This input is the voltage supply for the Pulse, Direction, and Enable opto-couplers. Connect 5VDC (or +12V, +24V with appropriate resistors on Pulse, Direction, and Enable inputs).
	ENA	Enable signal: 5V signal, single-ended input. High input is 4-5V, Low input is 0-0.5 V. Minimum pulse width = 2.5 µs. Add a 1k⊡ resistor for +12V signals, 2k⊡ for +24V signals. Enable Function: Close (pull low) to disable the drive.
Replacement Connectors		Power = 6-pin from STP-CON-4; I/O = 4-pin from STP-CON-5
Cooling		Natural cooling or forced cooling
Ambient Temperature		0°C to 65°C (32°F to 149°F)
Humidity		40–90% relative humidity
Operating Temperature		0°C to 50°C (32°F to 122°F)
Vibration		10–50 Hz / 0.15 mm
Storage Temperature		-20°C to 65°C (-4°F to 149°F)
Self Test		No
Weight		90g (3.5 oz)



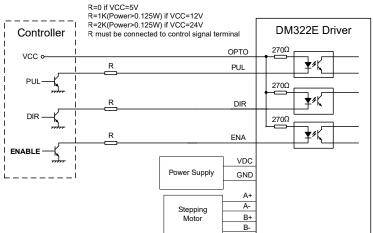
Stepping Drives

DM322E Dimensions and Wiring

Dimensions = in [mm]



DM322E Connection to Open Collector Signal



DM322E Connection to Differential Control Signal

