

LDHD2

High-performance Servo Drives

LDHD2 is a new generation Servotronix servo driver, focusing on linear motor control, with advanced control algorithms, and easy to use.

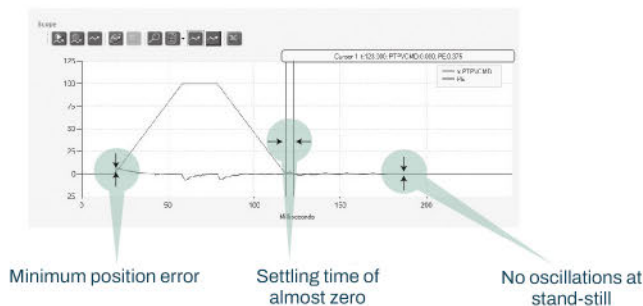


Focusing on linear motor applications, providing precise motion control

LDHD2 drives provide self-developed HD control loops with a graphical interface debug wizard to ensure control accuracy while making debugging easier and more reliable. LDHD2 drives support EtherCAT field bus, pulse control, and incremental encoders, Hall sensors, and SSI encoders for the perfect combination of linear motor applications.

HD control loop optimizing servo control

An adaptive non-linear control algorithm was developed to optimize servo performance in high precision motion applications. This proprietary algorithm uses a parallel configuration, in which position and velocity branches are on the same level and executed in each sampling period. A variable gain parameter is introduced and automatically optimized for high gain and stability. As a result, position error and settling time are minimized to levels far superior to those of other controllers.

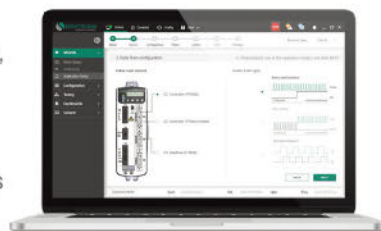


High bandwidth current loop achieves and industry-leading frequency response

The current loop design achieves an outstanding frequency response of 3-5 kHz. High sampling rates and flexible filtering options provide a faster response and ensure maximum machine accuracy and throughput.

ServoStudio™ wizard for simple commissioning

- Step-by-step guidance through the motor setup, application configuration and tuning process
- Innovative and self explanatory user interface
- Excellent results for novice users within minutes
- Real-time data recording and plotting
- Easy integration of servo axes
- Plug-and-play motor library



Key benefits

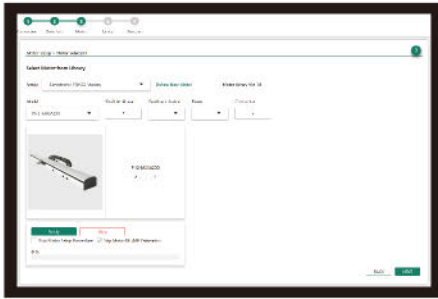
- Supports direct-drive linear motor, direct-drive rotary motor control
- High performance HD and HDM control loops
- 5kHz current loop bandwidth
- Supports differential pulse control
- ServoStudio™ for easy commissioning
- EtherCAT bus communication support
 - PP/PV/PT/CSP/CSV/CST
- Supports online enabling and control mode switching
- Touch Probe
- Supports FOE function
- More than 40 types of zero return methods
- CE certification

Match the linear motor to get the best performance

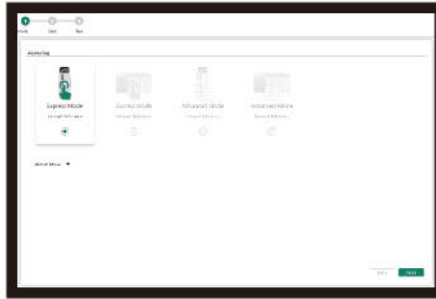


Comes with a graphical configuration wizard to complete drive setup in three steps!

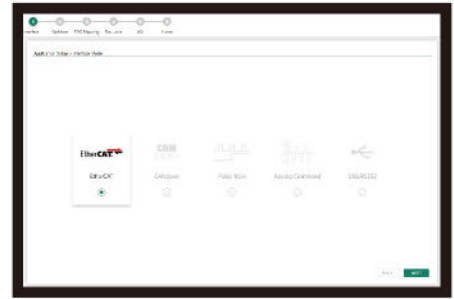
Motor Installation



Gain Tuning



Application Settings



Rating and Dimension

LDHD2	Units	Model 3A	Model 6A
Input Mains Voltage	VAC	Single-phase 240 L-N VAC, +10%-15%	
Control power	VAC		
Input Frequency	Hz		
Rated Current	A _{rms}	3	6
Peak Current	A _{rms}	9	18
Peak Current Period	s	2	
PWM frequency	kHz	8/16	
Operating Temperature	°C	0~55	
Dimension	mm	166*53*174	

Communication:

EtherCAT®
USB

Motor Feedback:

Incremental Encoders
Hall Sensors
SSI encoders (EnDat®, BiSS-C®)

I/Os: *

Digital: 6x Inputs, 4x Outputs
Pulse and Direction
Equivalent encoder output
* Fan only for model 006

Ordering Information

			LDHDD2	-	006	2A	EC	-	000
LDHDD2 Servo Drive-HD Series									
Power Rating									
	120 / 240 VAC								
	Continuous [A rms]	Peak [A rms]							
003	3	9							
006	6	18							
Input power									
2A	Single-phase 120 L-N VAC + 10% -15% 50/60 Hz Single-phase 240 L-N VAC + 10% -15% 50/60 Hz								
Communication Interface									
EC	EtherCAT , Pulse, USB								
Special Options									
[blank]	Standard								



Midea

SERVOTRONIX



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