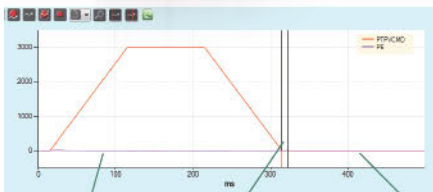


New
New

LDHD2 High-Voltage High-Performance Servo Drive

The LDHD2 high-voltage high-performance servo drive focuses on linear motor control, featuring ease of use, advanced control algorithm, incremental and BissC feedback, compact size, various power options (12A, 18A, and 24A), triple overload capacity, and dual STO.



Min position error Near-zero setting time No oscillations at stand-still

Key Advantages

- High-performance motor control
- Multiple feedback interfaces
- Position comparison output module
- 1D error correction & compensation
- Advanced non-linear control algorithm, which minimizes position error and reduce setting time to near zero
- High power density
- Frequency domain analysis, which effectively identifies system resonance points and optimizes automatic parameter design
- Safe Torque Off (STO)
- ServoStudio™ 2.0 GUI commissioning for comprehensive parameter optimization and configuration

Paired with Linear Motors for Optimal Performance



LDHD2 High-Voltage High-Performance Servo Drive

HD Control Loop for Optimized Servo Control

The adaptive non-linear control algorithm is adopted to optimize servo performance in high-precision motion applications. This unique algorithm features a parallel configuration, with position and velocity loops deployed on the same level and executed within the same sampling period. By introducing multiple gain parameters, this algorithm enables automatic optimization for high gain and stability, as well as minimized position error and setting time, far outperforming other control algorithms.

High-bandwidth Current Loop with Industry-leading Frequency Response

The current loop is specially designed for an excellent frequency response of 3-5 KHz. High sampling rates and flexible filtering options offer faster response, and higher precision and productivity.

ServoStudio™ Wizard for Simple Commissioning

- Step-by-step wizards for motor setup, application configuration, and tuning process
- Innovative and self-explanatory GUI
- Easy to operate, requiring only minutes of learning for novice users
- Real-time data logging and plotting
- Simple and convenient servo axis integration
- Plug-and-play motor library



Power Specifications and Dimensions

Three-phase 380/440 VAC	Specification	High-voltage LDHD2-0124DEC	High-Voltage LDHD2-0184DEC	High-Voltage LDHD2-0244DEC
Input power circuit: L1, L2, L3	Rated voltage VAC (phase voltage) ±10%	380/440		
	Line frequency (Hz)	50/60		
	380/440VAC	Three-phase		
	Continuous current (3-phase, Arms)	9	13	17
Logic power supply input power (L1C, L2C)	380/440 VAC	Single-phase		
STO (Safe Torque Off)	Voltage VDC	24±10%	24±10%	24±10%
	DC current, Arms	0.1	0.1	0.1
	Number of STO ports	Dual-channel	Dual-channel	Dual-channel
Drive output	Continuous output current (Arms)	12	18	24
	Continuous output current (Apeak)	16.97	25.45	33.94
	Peak output current (Arms) for 2 seconds	36	54	72
	Peak output current (Apeak) for 2 seconds	50.9	76.36	101.8
	kVA at 380 VAC	5.8	7.2	9.8
	PWM frequency (kHz)	8		
Ambient temperature	℃	Ambient temperature: Operating temperature 0-55℃ (derating required for 45-55℃), storage temperature 0-70℃		
Unit weight	kg	3.9	4.2	4.3
Dimensions	Dimensions (D*W*H) (mm)	235*100*244		

LDHD2 - 012 4D EC

① ② ③ ④



Ordering Information

- ① LDHD2 Servo Drive - HD Series
- ② Power specifications

	Cont.	Peak
	[A rms]	[A rms]
	380/440VAC	
012	12	36
018	18	54
024	24	72

- ③ Input power supply

4D	Main power supply	Three Phase 380V AC~440V AC, -10%~+10%, 50Hz/60Hz
	Control power supply	Single Phase 380V AC~440V AC, -10%~+10%, 50Hz/60Hz

- ④ Communication interfaces

EC	EtherCAT, Pulse, USB
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