



High-Performance Servo Drives

Hardware and software design innovations deliver superior servo performance, high power density, simple commissioning, and extensive versatility in a cost-effective package.



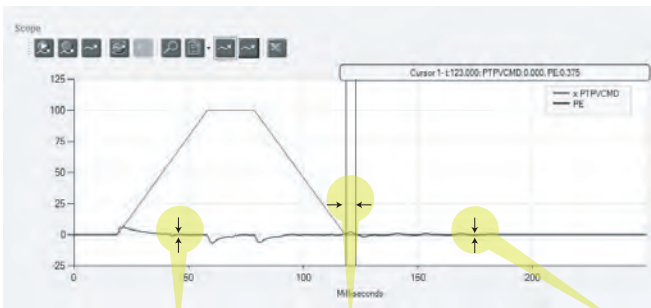
New current loop design achieves an industry-leading frequency response of 3-5 kHz



High sampling rates and flexible filtering options provide a faster response, and ensure maximum machine accuracy and throughput.

Advanced autotuning minimizes position error and settling time to almost zero

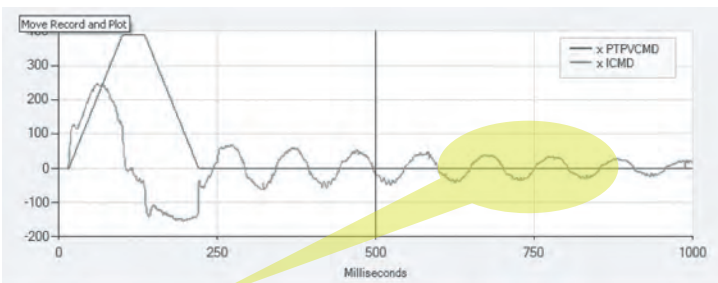
Engineering experience and expertise has been implemented in a sophisticated autotuning function that performs optimal configurations for a difference making performance.



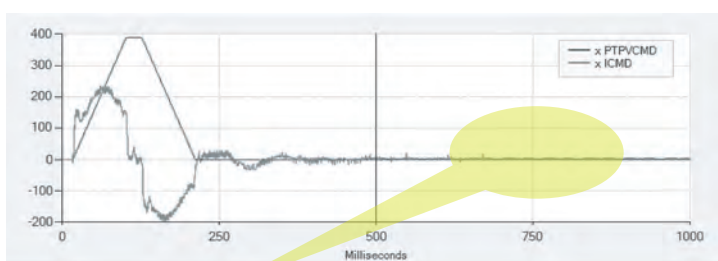
Minimum position error Settling time of almost zero No oscillations at stand-still

Innovative anti-vibration control algorithm eliminates mechanical resonance

An active non-linear algorithm eliminates vibration in highly flexible resonant systems. Commissioning is easy, using just a few gain parameters.



Without anti-vibe control

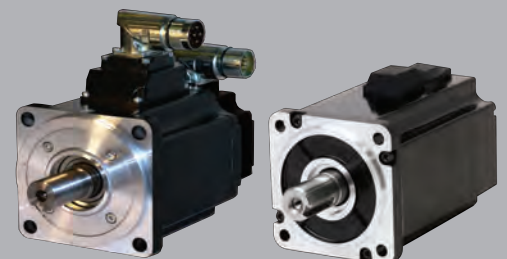


With anti-vibe control

Key benefits

- High performance control of all synchronous servo motors
- Interfaces multiple feedback devices
- I/O programming for any drive functionality
- Advanced control algorithms achieve maximum machine accuracy and throughput
- High power density in a small footprint
- Safe Torque Off (STO)
- Simple commissioning using ServoStudio™ GUI along with comprehensive parameterization options for optimal configuration
- Fast firmware modifications to meet particular application needs
- CE and UL compliance
- Competitive price
- 30-month warranty

Offered with matched PRO2/PRHD2 servo motors for optimal performance



PRO/PRO2 Series

50 W – 7.5 kW
0.16 Nm – 48 Nm

PRHD2 Series

50 W – 3 kW
0.16 Nm – 14.3 Nm

ServoStudio™ wizard for simple commissioning in 4 steps

- Step-by-step guidance through the setup and tuning process
- Excellent results for novice users within minutes
- Real-time data recording and plotting
- Easy integration of servo axes
- Plug-and-play motor and feedback wiring



Rating and dimensions

Model	Input Voltage (VAC)	Input Power Main Circuit	Continuous Current (A _{rms})	Peak Current (A _{rms})	Width (mm)	Height (mm)	Depth (mm)
CDHD-1D5	120/240	1 Phase	1.5	4.5	43.2	150	143.7
CDHD-003	120/240	1 Phase	3	9	43.2	150	143.7
CDHD-4D5	120/240	1/3 Phase	4.5	18	54.7	150	167.4
CDHD-006	120/240	1/3 Phase	6	18	54.7	150	167.4
CDHD-008	120/240	1/3 Phase	8	28	61.8	170	181.6
CDHD-010	120/240	1/3 Phase	10	28	61.8	170	181.6
CDHD-013	120/240	3 Phase	13	28	61.8	170	181.6
CDHD-020	120/240	3 Phase	20	48	117.4	233.8	193.5
CDHD-024	120/240	3 Phase	24	48	117.4	233.8	193.5
CDHD-003	400/480	3 Phase	3	9	110	162.8	193.1
CDHD-006	400/480	3 Phase	6	18	110	162.8	193.1
CDHD-012	400/480	3 Phase	12	24	117.4	234	193.5
CDHD-024	400/480	3 Phase	24	72	149.1	353	200.9
CDHD-030	400/480	3 Phase	30	90	149.1	353	200.9

Communication:

CANopen®*
EtherCAT®*
USB*
RS232
Daisy Chain
PWM**

Motor feedback:

Incremental Encoder
Hall Sensors
Resolver*
Sine Encoder (e.g., EnDat®, HIPERFACE®)
sensAR absolute encoder
SSI Encoder (e.g., EnDat®, Nikon®, Tamagawa®)
Motor Temperature

I/Os:*

Digital: 11 x Input, 6 x Output
Analog: 1 x Input or 2 x Input*, 1 x Output
Pulse & Direction
Equivalent Encoder Output
Secondary Feedback
Fault Output Relay

*Some features are not available on all models. |**Power block only, without motor feedback and I/Os

Ordering information

CDHD		--		006		2A		AP1		ST																																																																																
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