

MT *Series*

General Purpose Servo Motors

Performance - Experience - Value





The MT Series Servo Solution

General Purpose Servo Motors

Closing the price-performance gap between induction motors and high-end servo motors, MT servo motors are particularly suitable for price sensitive motion applications that require efficient servo performance and functionality. The combined MT motors and CDHD drives deliver an economical servo solution for a variety of general purpose motion applications.



Contents

The MT Series Servo Solution.....	1
Drive and Motor Combinations	2
Features and Benefits	4
Navigate the Catalog	6
Ordering Information	8
Recommended Motor/Drive Systems	10
Servo Motor Performance Data	14
Servo Motor Dimensions	19
Servo Drive Performance Data	23
Servo Drive Dimensions	24
Typical System Wiring Diagram	26
Servo Drive Pin Assignments	27
Cables	33
Optional Accessories	34
Feedback Device.....	35

Input Voltage AC 120/240 VAC, 400/480 VAC

CDHD Servo Drive

 **Current:**
1.5 Arms - 30 Arms

MT Servo Motor

 **Frame Size:**
42 mm - 180 mm

 **Rated Output**
50 W - 4.5 kW, 0.16 Nm - 28 Nm

Drive and Motor Combinations **120/240 VAC**

Servo Drive									
	1.5A CDHD-1D5 2A	3A CDHD-003 2A	4.5A CDHD-4D5 2A	6A CDHD-006 2A	8A CDHD-008 2A	10A CDHD-010 2A	13A CDHD-013 2A	20A CDHD-020 2A	24A CDHD-MV-024
Servo Motor									
Low Inertia	50W MT-C04051C 80W/100W MT-C04101C 200W MT-C06201C	200W MT-D06201C 250W/400W MT-C06401C 400W MT-D06401C	550W/750W MT-D08751C 500W/750W MT-C08751C						2.7kW/4.5kW MT-C18452H
Medium Inertia		230W/300W MT-B07301C	410W/550W MT-B13551A 420W/750W MT-B08751C	500W/1kW MT-B13102A 550W/1kW MT-B13102B	750W/1.5kW MT-B13152A 975W/1.5kW MT-B13152B 800W/1.5kW MT-B13152C	1kW/2kW MT-B13202B	1.65kW/3kW MT-B13302B 1.8kW/3kW MT-B13302C		
High Inertia								1.8kW/3kW MT-A18302H	2.35kW/4.4kW MT-A18442H

Drive and Motor Combinations **400/480 VAC**

Servo Drive			
	3A CDHD-003 4D	6A CDHD-006 4D	12A CDHD-012 4D
Servo Motor	On request		On request
Medium Inertia		1.5 kW MT-B13152C 2 kW MT-B13202C	

* Additional 400/480 VAC motor types are available upon request.

Features and Benefits

CDHD servo drive

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

Supporting a wide range of application requirements

- Interfaces multiple feedback devices
- I/O programming for any drive functionality
- Safe Torque Off (STO)
- Analog commands, Pulse & Direction, CANopen® and EtherCAT®
- Fast firmware modifications to meet particular application needs



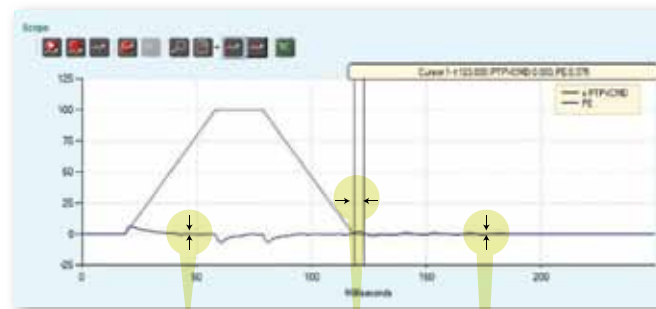
New current loop design achieves an industry-leading frequency response of 3-5 kHz

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

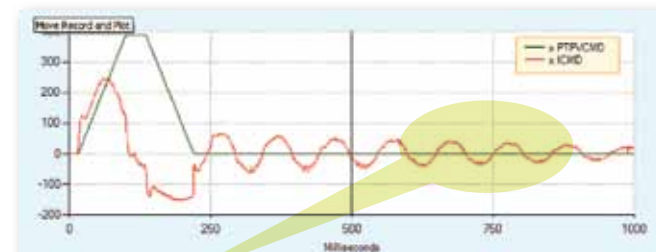
Engineering experience and expertise has been implemented in a sophisticated autotuning function that performs optimal configurations for a difference making performance.



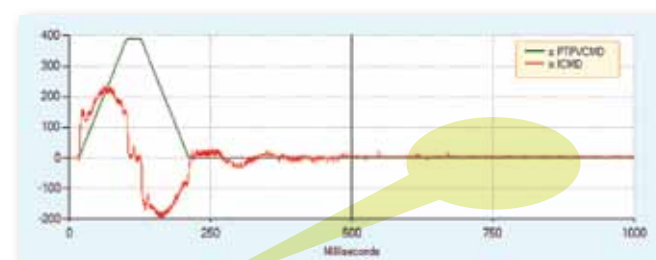
Minimum position error
Settling time of almost zero
No oscillations at stand-still

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

MT rotary brushless servo motor

Closing the price-performance gap between induction motors and high-end servo motors, MT servo motors are particularly suitable for price sensitive motion applications that require efficient servo performance and functionality.

Broad range of motor options

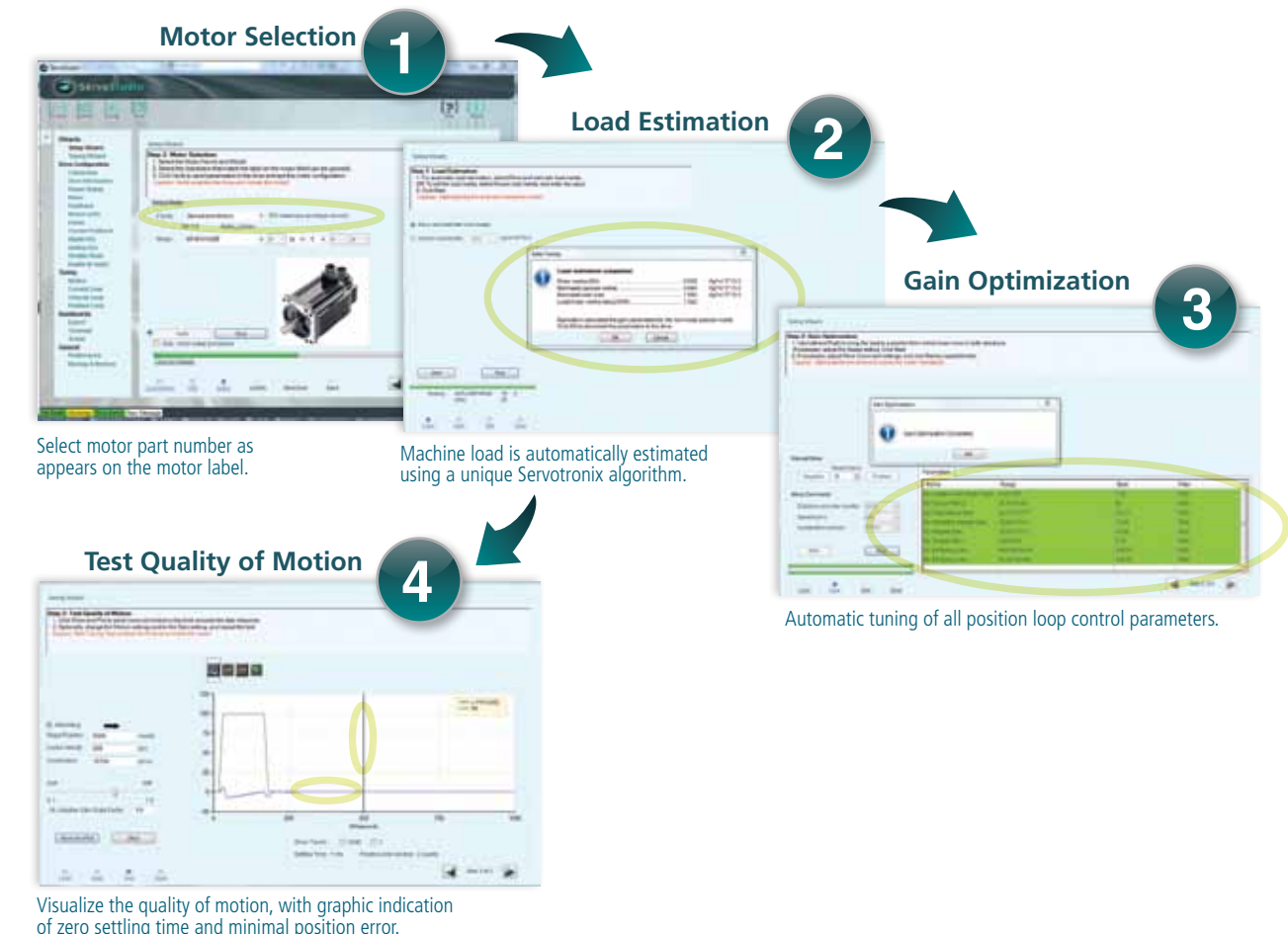
- 7 frame sizes
- Winding options for 160, 320, 560 and 640 VDC
- Standard feedback options include incremental encoders with 2500 C/T or 8192 C/T and absolute encoders with up to 17 bit resolution
- Standard and high inertia options
- Optional holding brake
- Up to protection class IP67
- Insulation class B (130°C) or F (155°C)



ServoStudio™ wizard

User-friendly Servo Studio software provides step-by-step guidance through the setup and tuning process. Setup and testing are simplified thanks to auto-tuning functions and graphic representations of control loops.

- Excellent results within minutes, even for novice users!
- Real-time data recording and plotting
- Easy integration of servo axes
- Plug-and-play motor and feedback wiring



Navigate the Catalog - 6 steps to ordering a complete system

Select Initial Combination

Select power range, voltage input and inertia level.

Drive and Motor Combinations: Pages 2-3

Drive and Motor Combinations 120/240 VAC				
1.5A CDHD-105 2A	3A CDHD-003 2A	4.5A CDHD-005 2A	6A CDHD-006 2A	8A CDHD-008 2A
50W MFC04051C 80W/100W MFC04101C 200W MFC06201C	200W MFC06201C 250W/400W MFC06401C 400W MFC06401C	550W/750W MFC08751C 500W/750W MFC08751C		
	230W/300W MFC07301C	410W/550W MFC13551A 420W/750W MFC08751C	500W/1.5kW MFC13102A 550W/1.5kW MFC13102B	750W/1.5kW MFC13152A 800W/1.5kW MFC13152C

Drive and Motor Combinations 400/480 VAC

Get Base Model Numbers

Select motor and matching drive from the relevant voltage input table.

Recommended Motor/Drive Systems: Pages 11-13

Recommended Motor/Drive Systems 120 VAC, 160 VDC bus													
Motor Rated Power	Motor Model	Recommended Servo Drive	Inertia	Frame Size	Peak Torque	Max Torque at Kmax	Rated Torque	Rated Torque at Kmax	Rated Speed	Max Speed	Max Torque	Max Current	Motor Inertia
Pn [W]				[mm]	[N-m]	[N-m]	[N-m]	[N-m]	[rpm]	[rpm]	[N-m]	[A]	[kg-cm ²]
80	MT-C04101C	CDHD-105	Low	42	0.960	0.419	0.320	0.266	2400	2600	0.94	2.82	0.036
200	MT-C06201C	CDHD-003	Low	60	1.911	0.899	0.637	0.465	3000	2700	2.10	6.30	0.164
200	MT-C06201C	CDHD-105*	Low	60	1.911	0.873	0.637	0.478	3000	2300	3600	1.80	5.40
230	MT-B07301C	CDHD-003	Medium	76	2.861	1.319	0.950	0.756	2300	1900	2600	2.00	6.00
400	MT-C06401C	CDHD-003*	Low	60	3.820	1.294	1.274	0.819	3000	3300	4200	3.50	11.10
250	MT-C06401C	CDHD-003	Low	60	3.820	1.354	1.274	0.934	1900	1300	2300	2.50	7.50
410	MT-B13551A	CDHD-405	Medium	130.4	15.756	6.327	5.252	4.431	750	500	800	3.43	10.30
550	MT-C08751C	CDHD-405	Low	80	7.161	3.762	2.387	1.750	2200	2000	2700	4.80	14.40
500	MT-C08751C	CDHD-405	Low	80	7.161	3.156	2.387	1.790	2000	1800	2400	4.30	12.90
420	MT-B08751C	CDHD-405	Medium	86	7.161	3.407	2.387	1.826	1700	1600	2000	3.75	11.25
500	MT-B13102A	CDHD-006	Medium	130.4	28.635	10.539	9.545	6.136	500	500	700	5.16	15.50
550	MT-B13102B	CDHD-006	Medium	130.4	14.346	8.015	6.782	3.382	1100	1200	1400	5.16	15.48
750	MT-B13152A	CDHD-008	Medium	130.4	42.981	21.470	14.327	9.919	500	550	650	7.45	22.35
975	MT-B13152B	CDHD-008	Medium	130.4	21.492	11.089	7.164	5.987	1300	1200	1400	7.57	22.71
800	MT-B13152C	CDHD-008	Medium	130.4	14.346	8.229	4.782	3.443	1600	1800	2000	7.06	21.80
1000	MT-B13202B	CDHD-010*	Medium	130.4	28.635	14.107	9.545	6.608	1000	1150	1300	9.18	27.50
1650	MT-B13302B	CDHD-013*	Medium	130.4	42.981	26.147	14.327	10.911	1100	1150	1300	14.00	42.00
1800	MT-B13302C	CDHD-013*	Medium	130.4	28.635	19.230	9.545	7.731	1800	1900	2000	14.00	42.00

Complete Motor Part Number

Select brake, feedback and IP options.

Ordering Information: Page 8

Ordering Information									
120VAC 160VDC 240VDC									
W	C	D	Frame Size	Rated Output *	Motor Bus Voltage	Feedback Device	Brake	Rated Speed	Motor Inertia
120VAC	160VDC	240VDC	80	50 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC	Y: Tangent 2500 COT V: Tangent 8100 COT S: Tangent 15 bit multi-turn 7: Tangent 17 bit single turn 4*: Resolver *: Special order	N: Without brake (all motor) B: With brake (all motor, except MT-C13452A)	A: 1000 rpm (50 to 1000 W motor) H: 1500 rpm (1 to 3 kW motor) B: 1800 rpm (50 to 3000 W motor, except 550 W) C: 3000 rpm (3 to 4.5 kW motor)	0.036
120VAC	160VDC	240VDC	200	200 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.170
120VAC	160VDC	240VDC	230	250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.170
120VAC	160VDC	240VDC	250	300 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.290
120VAC	160VDC	240VDC	275	375 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	300	450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	350	550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	400	750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	450	900 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	500	1100 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	550	1350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	600	1650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	650	1950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	700	2250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	750	2550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	800	2850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	850	3150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	900	3450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	950	3750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1000	4050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1050	4350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1100	4650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1150	4950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1200	5250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1250	5550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1300	5850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1350	6150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1400	6450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1450	6750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1500	7050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1550	7350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1600	7650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1650	7950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1700	8250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1750	8550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1800	8850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1850	9150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1900	9450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	1950	9750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2000	10050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2050	10350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2100	10650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2150	10950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2200	11250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2250	11550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2300	11850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2350	12150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2400	12450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2450	12750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2500	13050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2550	13350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2600	13650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2650	13950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2700	14250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2750	14550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2800	14850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2850	15150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2900	15450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	2950	15750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3000	16050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3050	16350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3100	16650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3150	16950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3200	17250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3250	17550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3300	17850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3350	18150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3400	18450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3450	18750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3500	19050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3550	19350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3600	19650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3650	19950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3700	20250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3750	20550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3800	20850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3850	21150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3900	21450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	3950	21750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4000	22050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4050	22350 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4100	22650 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4150	22950 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4200	23250 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4250	23550 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4300	23850 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4350	24150 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4400	24450 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4450	24750 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4500	25050 W	160 VDC: 120 VAC 240 VDC: 160 VAC 240 VDC: 240 VAC				0.280
120VAC	160VDC	240VDC	4550	25350 W	160 VDC:				

Ordering Information

MT Servo Motor

MT – B 08 751 C 2 N T 3 D

MT Series Synchronous Servo Motors

Inertia

A	High inertia (3 and 4.4 kW motors)
B	Medium inertia (300 to 3000 W motors)
C	Low inertia (50 to 750 W and 4.5 kW motors, except 550 W)
D	Low inertia (small size) (200 to 750 W motors, except 550 W)

Frame Size

04	42 mm (50 to 100 W motors)
06	60 mm (200 to 400 W motors)
07	76 mm (300 W motor)
08	80 mm (MT-C08) (750 W motor)
08	86 mm (MT-B08) (750 W motor)
13	130.4 mm (550 to 3000 W motors)
18	180 mm (550 to 3000 W motors)

Rated Output *

051	50 W
101	100 W
201	200 W
301	300 W
401	400 W
551	550 W
751	750 W
102	1 kW
152	1.5 kW
202	2 kW
302	3 kW
442	4.4 kW
452	4.5 kW

* Motor voltage 320 VDC. For other motor output rates, refer to motor performance data tables.

Motor Bus Voltage

2	160 VDC: 120 VAC line-line input 1 or 3 phase 320 VDC: 240 VAC line-line input 1 or 3 phase
4	560 VDC: 380 VAC line-line input 3 phase 640 VDC: 480 VAC line-line input 3 phase

Seal

1	No IP67 (Inertia D)
C	IP67 with oil seal (Inertia A, B, C, except 50 W motors)
D	IP67 without oil seal (Inertia A, B, C, except 50 W motors)

Connector

3	300 mm with AMP (50 to 750 W motors)
A	Round Military (650 to 4500 W motors)

Feedback Device

T	Tamagawa 2500 C/T
Y	Tamagawa 8192 C/T
5*	Tamagawa 15 bit multi turn
7	Tamagawa 17 bit single turn
M*	Tamagawa 17 bit multi turn
4*	Revolver

* Special order

Rated Speed

A	1000 rpm (550 to 1500 W motors)
H	1500 rpm (1 to 3 kW motors)
B	2000 rpm (50 to 3000 W motors, except 550 W)
C	3000 rpm (3 to 4.5 kW motors)

Brake

N	Without brake (all motors)
B	With brake (24 VDC; all motors, except MT-C18452H)



Ordering Information

CDHD Servo Drive

CDHD – 006 2A AP 1

CDHD Servo Drive – HD Series

Rating

	120/240 VAC	
	Dauer.str. [A _{eff}]	Spitzen.str. [A _{eff}]
1D5	1.5	4.5
003	3	9
4D5	4.5	18
006	6	18
008	8	28
010	10	28
013	13	28
020	20	48
024	24	48
	400/480 VAC	
	Cont. [A _{rms}]	Peak [A _{rms}]
003	3	9
006	6	18
012	12	24
024	24	72
030	30	90

Analog Input

0	Power block
1	One analog input, 16 bit
2	Two analog inputs, 14 bit each

Interface Options

AP *	Analog Voltage, Pulse Train Ref, RS232
AF *	Analog Voltage, Pulse Train Ref, CANopen, USB, RS232
EC **	EtherCAT, USB, RS232
PB ***	PWM Power Block

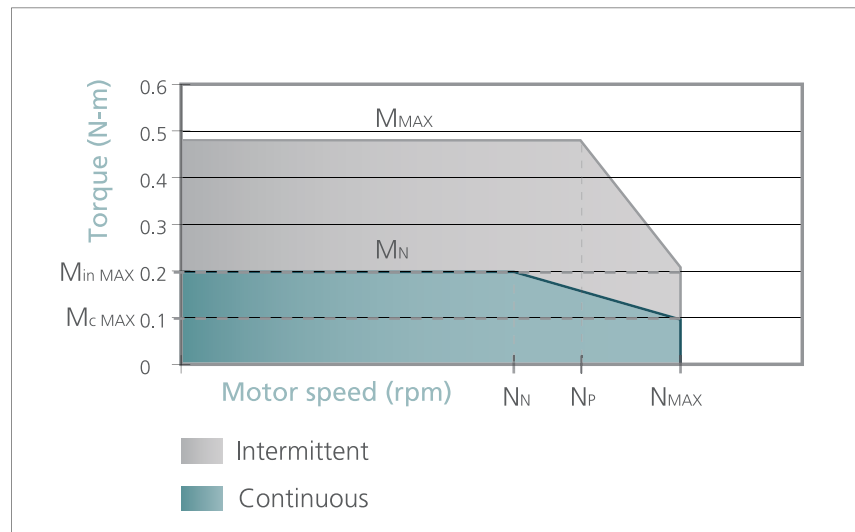
* Standard configuration with one analog input
** Standard configuration with two analog inputs
*** PB0 and PWM power block do not have analog input option

AC and Controller Input Power Supply

2A	Input Single Phase 120 L-L VAC +10% -15% 50/60 Hz Input Single Phase 240 L-L VAC +10% -15% 50/60 Hz Input Three Phase 120-240 L-L VAC +10% -15% 50/60 Hz
4D	AC Input Power Supply: - Input Three Phase 400 L-L VAC +10% -15% 50/60 Hz - Input Three Phase 480 L-L VAC +10% -15% 50/60 Hz 24 VDC input for control board power supply



Recommended Motor/Drive Systems



The system torque/speed information on the following pages is designed to help you select the optimum combination of brushless servo motor/drive.

The nominal values in this data illustrate performance for the recommended motor/drive system.

- M_{MAX}** - Maximum torque of the motor
- $M_{in MAX}$** - Intermittent torque at maximum speed
- $M_{c MAX}$** - Continuous torque at maximum speed
- M_N** - Continuous rated torque
- N_N** - Rated speed
- N_P** - Speed at knee in maximum envelope (intersection of motor max torque with voltage limit line)
- N_{MAX}** - Maximum speed

The combination of the MT Series motors and the reliable and feature-rich CDHD digital drive amplifier meets virtually any kind of application with torque from 0.16 N-m to 28 N-m, max speed of 6000 RPM, motor power rating from 50W to 4.5kW.

Recommended Motor/Drive Systems 120 VAC, 160 VDC bus

Motor Rated Power P_N [W]	Motor Model	Recommended Servo Drive	Motor Parameters											
			Inertia	Frame Size	Peak Torque M_{MAX} [N-m]	Max Torque at Knee T_{inmax} [N-m]	Rated Torque M_N [N-m]	Rated Torque at Knee T_{cnmax} [N-m]	Rated Speed M_N [rpm]	Max Knee Speed N_P [rpm]	Max Speed N_{MAX} [rpm]	Rated Current I_N [Arms]	Max Current I_{MAX} [Arms]	Rotor Inertia J [kg-cm ²]
80	MT-C04101C	CDHD-1D5	Low	42	0.960	0.419	0.320	0.266	2400	1200	2600	0.94	2.82	0.036
200	MT-D06201C	CDHD-003	Low	60	1.911	0.899	0.637	0.465	3000	2700	3700	2.10	6.30	0.164
200	MT-C06201C	CDHD-1D5*	Low	60	1.911	0.873	0.637	0.478	3000	2300	3600	1.80	5.40	0.170
230	MT-B07301C	CDHD-003	Medium	76	2.861	1.319	0.950	0.756	2300	1900	2600	2.00	6.00	0.677
400	MT-D06401C	CDHD-003*	Low	60	3.820	1.294	1.274	0.819	3000	3300	4200	3.50	11.10	0.290
250	MT-C06401C	CDHD-003	Low	60	3.820	1.354	1.274	0.934	1900	1300	2300	2.50	7.50	0.280
410	MT-B13551A	CDHD-4D5	Medium	130.4	15.756	6.327	5.252	4.431	750	500	800	3.43	10.30	6.260
550	MT-D08751C	CDHD-4D5	Low	80	7.161	3.762	2.387	1.750	2200	2000	2700	4.80	14.40	0.907
500	MT-C08751C	CDHD-4D5	Low	80	7.161	3.156	2.387	1.790	2000	1800	2400	4.30	12.90	12.140
420	MT-B08751C	CDHD-4D5	Medium	86	7.161	3.407	2.387	1.826	1700	1600	2000	3.75	11.25	2.459
500	MT-B13102A	CDHD-006	Medium	130.4	28.635	10.539	9.545	6.136	500	500	700	5.16	15.50	0.940
550	MT-B13102B	CDHD-006	Medium	130.4	14.346	8.015	4.782	3.382	1100	1200	1400	5.16	15.48	6.260
750	MT-B13152A	CDHD-008	Medium	130.4	42.981	21.470	14.327	9.919	500	550	650	7.45	22.35	17.920
975	MT-B13152B	CDHD-008	Medium	130.4	21.492	11.089	7.164	5.987	1300	1200	1400	7.57	22.71	8.880
800	MT-B13152C	CDHD-008	Medium	130.4	14.346	8.229	4.782	3.443	1600	1800	2000	7.06	21.80	6.260
1000	MT-B13202B	CDHD-010*	Medium	130.4	28.635	14.107	9.545	6.608	1000	1150	1300	9.18	27.50	12.140
1650	MT-B13302B	CDHD-013*	Medium	130.4	42.981	26.147	14.327	10.911	1100	1150	1300	14.00	42.00	17.920
1800	MT-B13302C	CDHD-013*	Medium	130.4	28.635	19.230	9.545	7.731	1800	1900	2000	14.00	42.00	12.140
1800	MT-A18302H	CDHD-020	High	180	49.500	32.497	19.100	13.453	900	1050	1150	15.00	39.00	39.990
2350	MT-A18442H	CDHD-024*	High	180	71.500	38.981	28.000	17.530	800	1000	1150	22.50	58.50	51.440
2700	MT-C18452H	CDHD-024*	Low	180	64.123	47.288	28.600	18.533	900	1100	1250	25.20	56.50	31.600

* Recommended servo drive continuous and/ or peak (intermittent) current values are slightly less than motor capability. The system performance will be below the motor's given values.

Recommended Motor/Drive Systems 240 VAC, 320 VDC bus

Motor Rated Power	Motor Model	Recommended Servo Drive	Motor Parameters											
			Inertia	Frame Size	Peak Torque	Max Torque at Knee	Rated Torque	Rated Torque at Knee	Rated Speed	Max Knee Speed	Max Speed	Rated Current	Max Current	Rotor Inertia
P _N [W]				[mm]	M _{MAX} [N-m]	T _{INmax} [N-m]	M _N [N-m]	T _{Cnmax} [N-m]	M _N [rpm]	N _P [rpm]	N _{MAX} [rpm]	I _N [Arms]	I _{MAX} [Arms]	J [kg-cm ²]
50	MT-C04051C	CDHD-1D5	Low	42	0.480	0.215	0.160	0.096	3000	2500	4500	0.65	1.95	0.029
100	MT-C04101C	CDHD-1D5	Low	42	0.960	0.766	0.320	0.173	3000	4000	5000	0.94	2.82	0.036
200	MT-D06201C	CDHD-003	Low	60	1.911	0.873	0.637	0.287	3000	5000	6000	2.10	6.30	0.164
200	MT-C06201C	CDHD-1D5*	Low	60	1.911	0.774	0.637	0.287	3000	5000	6000	1.80	5.40	0.170
300	MT-B07301C	CDHD-003	Medium	76	2.861	1.767	0.950	0.493	3000	4100	5200	2.00	6.00	0.677
400	MT-D06401C	CDHD-003*	Low	60	3.820	2.094	1.274	0.573	3000	5000	6000	3.50	11.10	0.290
400	MT-C06401C	CDHD-003	Low	60	3.820	2.142	1.274	0.764	3000	3700	4500	2.50	7.50	0.280
550	MT-B13551A	CDHD-4D5	Medium	130.4	15.756	8.734	5.252	2.954	1000	1200	1600	3.43	10.30	6.260
750	MT-D08751C	CDHD-4D5	Low	80	7.173	3.566	2.391	1.196	3000	4400	5400	4.80	14.40	0.907
750	MT-C08751C	CDHD-4D5	Low	80	7.173	3.896	2.391	1.345	3000	4200	4800	4.30	12.90	12.140
750	MT-B08751C	CDHD-4D5	Medium	86	7.173	3.108	2.391	1.575	3000	3600	4100	3.75	11.25	2.459
1000	MT-B13102A	CDHD-006	Medium	130.4	28.635	11.928	9.545	6.136	1000	1100	1400	5.16	15.50	12.140
1000	MT-B13102B	CDHD-006	Medium	130.4	14.346	5.164	4.782	2.968	2000	2200	2900	5.16	15.48	6.260
1500	MT-B13152A	CDHD-008	Medium	130.4	42.981	28.127	14.327	9.919	1000	1150	1300	7.45	22.35	17.920
1500	MT-B13152B	CDHD-008	Medium	130.4	21.492	11.197	7.164	4.605	2000	2400	2800	7.57	22.71	8.880
1500	MT-B13152C	CDHD-008	Medium	130.4	14.346	6.950	4.782	3.228	3000	3500	4000	7.06	21.80	6.260
2000	MT-B13202B	CDHD-010*	Medium	130.4	28.635	16.927	9.545	6.738	2000	2300	2550	9.18	27.50	12.140
3000	MT-B13302B	CDHD-013*	Medium	130.4	42.981	24.124	14.327	9.919	2000	2400	2600	14.00	42.00	17.920
3000	MT-B13302C	CDHD-013*	Medium	130.4	28.635	13.157	9.545	6.443	3000	3600	4000	14.00	42.00	12.140
3000	MT-A18302H	CDHD-020	High	180	49.500	38.352	19.100	11.615	1500	1800	2220	15.00	39.00	39.990
4400	MT-A18442H	CDHD-024*	High	180	71.500	53.557	28.000	17.182	1500	1800	2200	22.50	58.50	51.440
4500	MT-C18452H	CDHD-024*	Low	180	64.123	55.695	28.600	15.759	1500	2000	2450	25.20	56.50	31.600

* Recommended servo drive continuous and/ or peak (intermittent) current values are slightly less than motor capability. The system performance will be below the motor's given values.

Recommended Motor/Drive Systems 400 VAC, 560 VDC bus

Motor Rated Power P _N [W]	Motor Model	Recommended Servo Drive	Motor Parameters											
			Inertia	Frame Size	Peak Torque	Max Torque at Knee	Rated Torque	Rated Torque at Knee	Rated Speed	Max Knee Speed	Max Speed	Rated Current	Max Current	Rotor Inertia
				[mm]	M _{MAX} [N-m]	T _{INmax} [N-m]	M _N [N-m]	T _{Cnmax} [N-m]	M _N [rpm]	N _P [rpm]	N _{MAX} [rpm]	I _N [Arms]	I _{MAX} [Arms]	J [kg-cm ²]
1500	MT-B13152C	CDHD-006	Medium	130.4	14.327	6.350	4.782	3.587	3000	3800	4000	3.95	11.85	6.260
2000	MT-B13202C	CDHD-006	Medium	130.4	19.080	8.440	6.360	4.540	3000	4000	4200	5.54	16.62	12.140

Recommended Motor/Drive Systems 480 VAC, 640 VDC bus

Motor Rated Power	Motor Model	Recommended Servo Drive	Motor Parameters											
			Inertia	Frame Size	Peak Torque	Max Torque at Knee	Rated Torque	Rated Torque at Knee	Rated Speed	Max Knee Speed	Max Speed	Rated Current	Max Current	Rotor Inertia
P _N [W]				[mm]	M _{MAX} [N-m]	T _{INmax} [N-m]	M _N [N-m]	T _{Cnmax} [N-m]	M _N [rpm]	N _P [rpm]	N _{MAX} [rpm]	I _N [Arms]	I _{MAX} [Arms]	J [kg-cm ²]
1500	MT-B13152C	CDHD-006	Medium	130.4	14.327	7.740	4.782	3.000	3000	4430	4750	3.95	11.85	6.260
2000	MT-B13202C	CDHD-006	Medium	130.4	19.080	9.500	6.360	3.816	3000	4700	5000	5.54	16.62	12.140

* Recommended servo drive continuous and/ or peak (intermittent) current values are slightly less than motor capability. The system performance will be below the motor's given values.

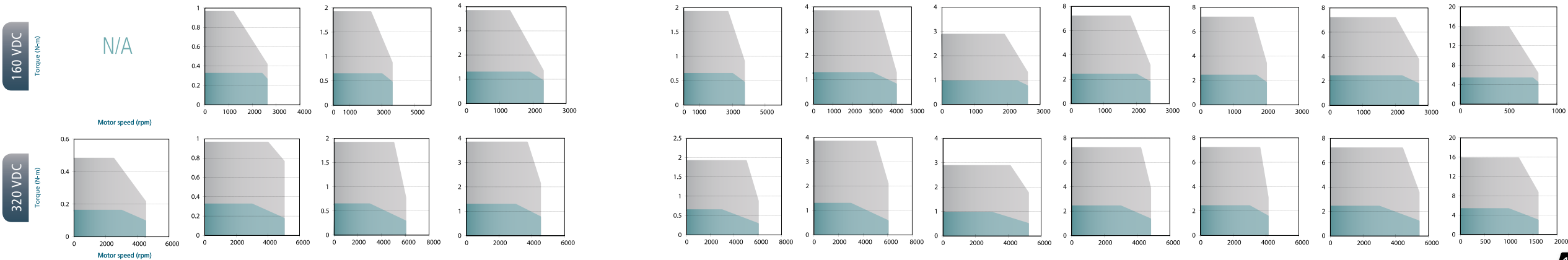


Servo Motor Performance Data 160/320 VDC

160 VDC

320 VDC

	Symbol	Units	MT-C04051C	MT-C04101C	MT-C06201C	MT-C06401C	MT-D06201C	MT-D06401C	MT-B07301C	MT-C08751C	MT-B08751C	MT-D08751C	MT-B13551A
Max Torque	Tmax	N-m	0.48	0.96	1.91	3.82	1.91	3.82	2.86	7.17	7.17	7.17	15.76
Rated Current	Ir	Arms	0.65	0.94	1.80	2.50	2.10	3.50	2.00	4.30	3.75	4.80	3.43
Max Current	I _{max}	Arms	1.95	2.82	5.40	7.50	6.30	11.10	6.00	12.90	11.25	14.40	10.30
Rated Torque	Tr	N-m	0.16	0.32	0.64	1.27	0.64	1.27	0.95	2.39	2.39	2.39	5.25
Rated Speed	Nr	RPM	N/A	2400	3000	1900	3000	3000	2300	2000	1700	2200	750
Rated Output	Pr	W	N/A	80	200	250	200	400	230	500	420	550	410
Max Speed	N _{max}	RPM	N/A	2600	3600	2300	3600	4200	2600	2400	2000	2700	800
Rated Speed	Nr	RPM	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	1000
Rated Output	Pr	W	50	100	200	400	200	400	300	750	750	750	550
Max Speed	N _{max}	RPM	4500	5000	6000	4500	6000	6000	5200	4800	4100	5400	1600
Constant Torque	Kt	N-m/Arms	0.39	0.38	0.30	0.53	0.34	0.37	0.50	0.53	0.70	0.54	1.68
Back EMF Constant	Ke	V/krpm	25.00	24.44	21.33	35.28	22.20	22.20	31.67	35.28	42.50	32.80	101.56
Rotor Inertia Without Brake	Jm	x10-4•Kg•m ²	0.03	0.04	0.17	0.28	0.16	0.29	0.68	0.94	2.46	0.91	6.26
Resistance	Ra	Ω	71.00	24.00	7.50	5.60	4.74	1.87	5.00	2.10	2.18	1.15	3.58
Inductance	La	mH	78.00	35.00	16.20	14.50	9.60	4.22	11.60	8.63	7.70	4.74	18.33
Mechanical Time Constant	Tm	ms	1.93	0.90	0.74	0.84	0.70	0.48	2.07	0.80	1.64	0.42	1.19
Electrical Time Constant	Te	ms	1.10	1.46	2.16	2.59	2.16	2.25	2.32	4.11	3.53	4.11	5.12
Insulation Grade	-	-	B	B	F	F	F	F	F	F	F	F	B
Brake	Rated Voltage	V	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24
	Static Rubbing Torque	N-M	0.35	0.35	2	2	2	2	2	3	3	3	3
	Inertia	x10-4•Kg•m ²	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.13	0.13	0.13	0.13
	Current disipation	A	0.25	0.25	0.26	0.26	0.26	0.26	0.26	0.43	0.82	0.82	0.82
	Time for brake funtion	ms	15	15	17	17	17	17	17	35	27	27	27
	Time for brake release	ms	118	118	32	32	32	32	32	25	76	76	76
Feedback	Incremental 2500 C/T		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Incremental 8192 C/T		NO	NO	YES	YES	NO	NO	YES	YES	YES	NO	YES
	Absolute 17 bit		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Resolver		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Poles			8	8	8	8	14	14	8	8	8	14	8
Degree of Protection Degree (IP)	IP		IP67	IP67	IP67	IP67	NO	NO	IP67	IP67	IP67	NO	IP67
Oil Seal at Shaft			NO	NO	Option	Option	NO	NO	Option	Option	Option	Option	Option
Weight	W	kg	0.48	0.65	1.03	1.37	0.90	1.20	1.82	2.05	3.41	2.20	6.47
Radial Force		N	75.46	75.46	257.74	257.74	257.74	257.74	298.90	156.80	436.10	436.10	813.00
Axial Force		N	34.30	34.30	63.70	63.70	63.70	63.70	98.00	78.40	147.00	147.00	196.00



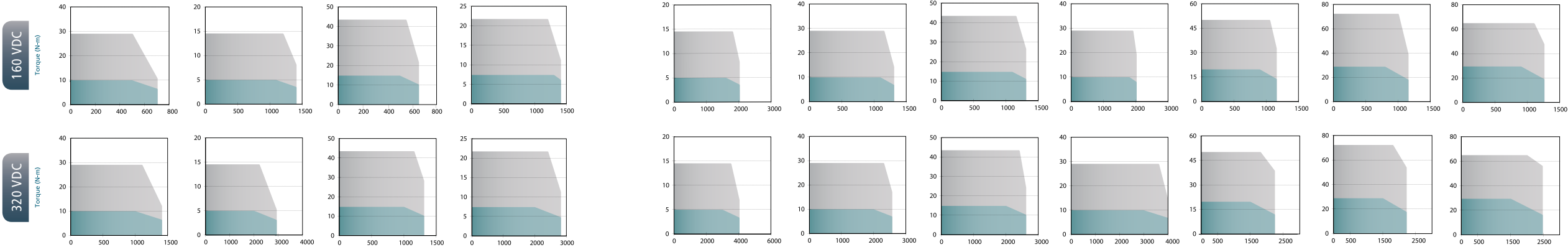


Servo Motor Performance Data 160/320 VDC Cont.

160 VDC

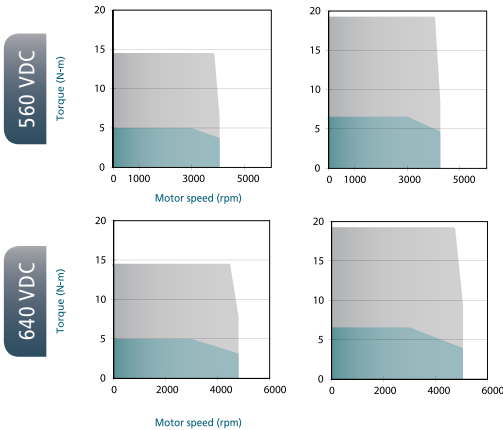
320 VDC

	Symbol	Units	MT-B13102A	MT-B13102B	MT-B13152A	MT-B13152B	MT-B13152C	MT-B13202B	MT-B13302B	MT-B13302C	MT-A18302H	MT-A18442H	MT-C18452H
Max Torque	Tmax	N-m	28.64	14.35	42.98	21.49	14.35	28.64	42.98	28.64	49.50	71.50	64.12
Rated Current	Ir	Arms	5.16	5.16	7.45	7.57	7.06	9.18	14.00	14.00	15.00	22.50	25.20
Max Current	Imax	Arms	15.50	15.48	22.35	22.71	21.80	27.50	42.00	42.00	39.00	58.50	56.50
Rated Torque	Tr	N-m	9.55	4.78	14.33	7.16	4.78	9.55	14.33	9.55	19.10	28.00	28.60
Rated Speed	Nr	RPM	500	1100	500	1300	1600	1000	1100	1800	900	800	900
Rated Output	Pr	W	500	550	750	975	800	1000	1650	1800	1800	2350	2700
Max Speed	Nmax	RPM	700	1400	650	1400	2000	1300	1300	2000	1150	1150	1250
Rated Speed	Nr	RPM	1000	2000	1000	2000	3000	2000	2000	3000	1500	1500	1500
Rated Output	Pr	W	1,000	1,000	1,500	1,500	1,500	2,000	3,000	3,000	3,000	4,400	4,500
Max Speed	Nmax	RPM	1400	2900	1300	2800	4000	2550	2600	4000	2220	2200	2450
Constant Torque	Kt	N-m/Arms	2.04	1.02	2.11	1.06	0.74	1.14	1.13	0.75	1.27	1.24	1.20
Back EMF Constant	Ke	V/krpm	123.33	61.67	127.78	62.78	44.74	68.89	68.30	45.32	81.32	82.23	72.00
Rotor Inertia Without Brake	Jm	x10-4•Kg•m2	12.14	6.26	17.92	8.88	6.26	12.14	17.92	12.14	39.99	51.44	3.16
Resistance	Ra	Ω	1.85	1.22	1.19	0.79	0.65	0.58	0.33	0.25	0.18	0.12	0.18
Inductance	La	mH	12.14	6.70	8.44	4.74	0.58	3.78	2.12	1.62	2.89	1.98	2.50
Mechanical Time Constant	Tm	ms	0.81	1.10	0.72	0.94	1.12	0.81	0.70	0.80	0.69	0.59	0.53
Electrical Time Constant	Te	ms	6.55	5.49	7.09	6.00	5.48	6.52	6.38	6.56	16.12	16.79	13.89
Insulation Grade	-	-	B	B	B	B	B	B	B	B	F	F	F
Brake	Rated Voltage	V	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	DC 24	-
	Static Rubbing Torque	N-M	20	20	20	20	20	20	20	20	40	40	-
	Inertia	x10-4•Kg•m2	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	2.07	2.07	-
	Current disipation	A	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	1.22	1.22	-
	Time for brake funtion	ms	27	27	27	27	27	27	27	27	15	15	-
	Time for brake release	ms	76	76	76	76	76	76	76	76	95	95	-
Feedback	Incremental 2500 C/T		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Incremental 8192 C/T		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO
	Absolute 17 bit		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Resolver		Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Poles			8	8	8	8	8	8	8	8	8	8	14
Degree of Protection Degree (IP)	IP		IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	NO
Oil Seal at Shaft			Option	Option	Option	Option	Option	Option	Option	Option	Option	Option	Option
Weight	W	kg	10.16	6.47	13.87	8.08	6.47	10.16	13.87	10.16	19.50	26.20	15.20
Radial Force		N	813.00	617.00	813.00	617.00	490.00	617.00	617.00	490.00	1107.40	1107.40	1107.40
Axial Force		N	196.00	157.00	196.00	157.00	147.00	157.00	157.00	147.00	294.00	294.00	294.00



Servo Motor Performance Data **560/640 VDC**

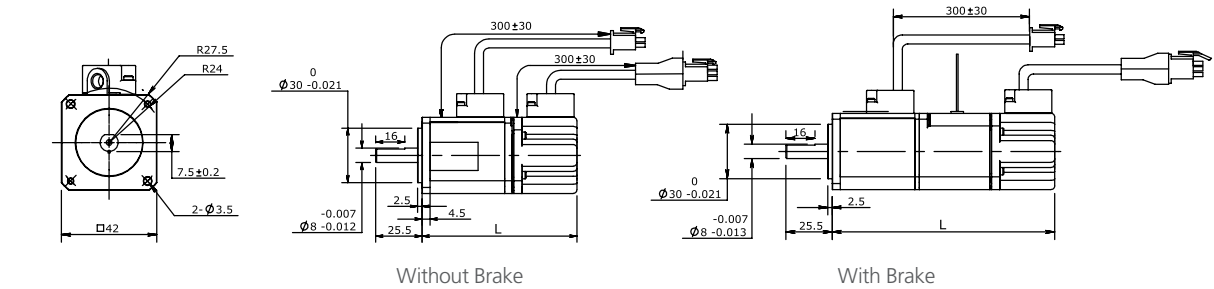
	Symbol	Units	MT-B13152C	MT-B13202C	
Max Torque	Tmax	N-m	14.35	28.65	
Rated Current	I _r	Arms	3.95	9.18	
Max Current	I _{max}	Arms	11.85	27.50	
Rated Torque	T _r	N-m	4.78	6.36	
Rated Speed	N _r	RPM	3,000	3,000	
Rated Output	P _r	W	1,500	2,000	
Max Speed	N _{max}	RPM	4,000	4,300	
Rated Speed	N _r	RPM	3,000	3,000	
Rated Output	P _r	W	1,500	2,000	
Max Speed	N _{max}	RPM	4,500	4,700	
Constant Torque	K _t	N-m/Arms	1.33	6.36	
Back EMF Constant	K _e	V/krpm	80.61	76.30	
Rotor Inertia Without Brake	J _m	x10-4•Kg•m2	6.26	12.14	
Resistance	R _a	Ω	2.23	0.73	
Inductance	L _a	mH	11.46	4.60	
Mechanical Time Constant	T _m	ms	1.10	0.86	
Electrical Time Constant	T _e	ms	5.14	6.30	
Insulation Grade	-	-	B	B	
Brake	Rated Voltage	V	DC 24	DC 24	
	Static Rubbing Torque	N-M	20	20	
	Inertia	x10-4•Kg•m2	0.32	0.32	
	Current disipation	A	0.82	0.82	
	Time for brake funtion	ms	27	27	
	Time for brake release	ms	76	76	
Feedback	Incremental 2500 C/T		YES	YES	
	Incremental 8192 C/T		YES	YES	
	Absolute 17 bit		YES	YES	
	Resolver		Option	Option	
Poles			8	8	
Degree of Protection Degree (IP)	IP		IP67	IP67	
Oil Seal at Shaft			Option	Option	
Weight	W	kg	6.47	10.16	
Radial Force		N	490.00	490.00	
Axial Force		N	147.00	147.00	



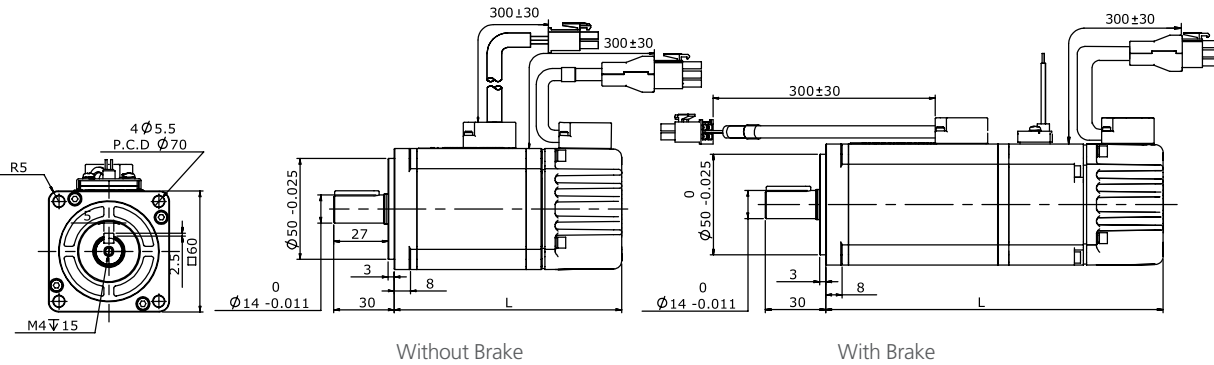
Servo Motor Dimensions

Motor Mating Connector for the following motors: Motor Power (U V W): CAP AMP 172159-1, Crimp AMP 170362-1
Motor Feedback: CAP AMP 172161-1, Crimp AMP 170361-1 **Motor Brake:** 2 separate flying leads

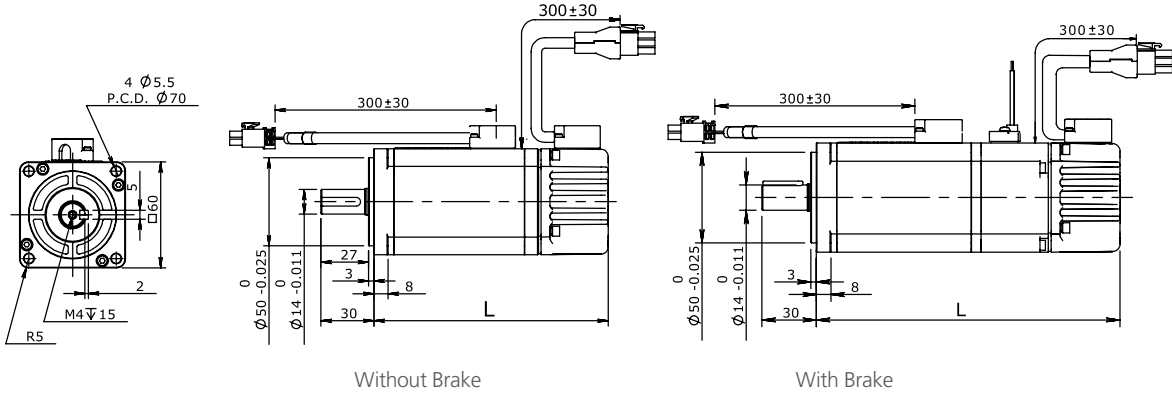
MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-C04051C	MT-C04051C	85.3	122.6
MT-C04101C	MT-C04101C	106.3	143.6



MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-C06201C	MT-C06201C	112.8	147.3

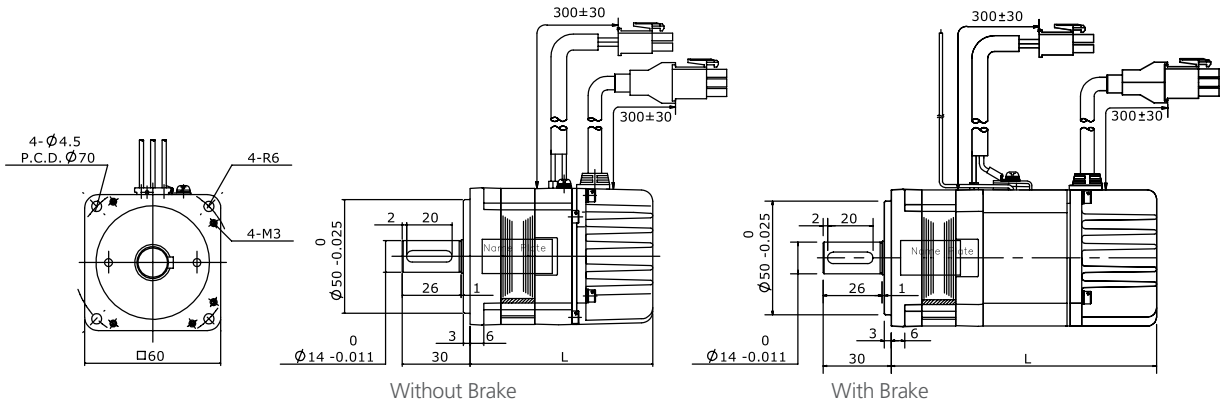


MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-C06401C	MT-C06401C	132.8	167.3

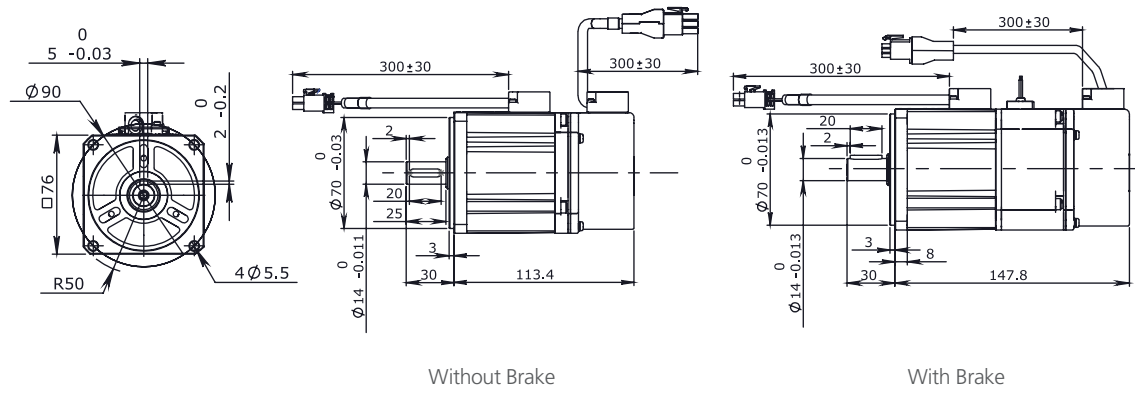


Servo Motor Dimensions Cont.

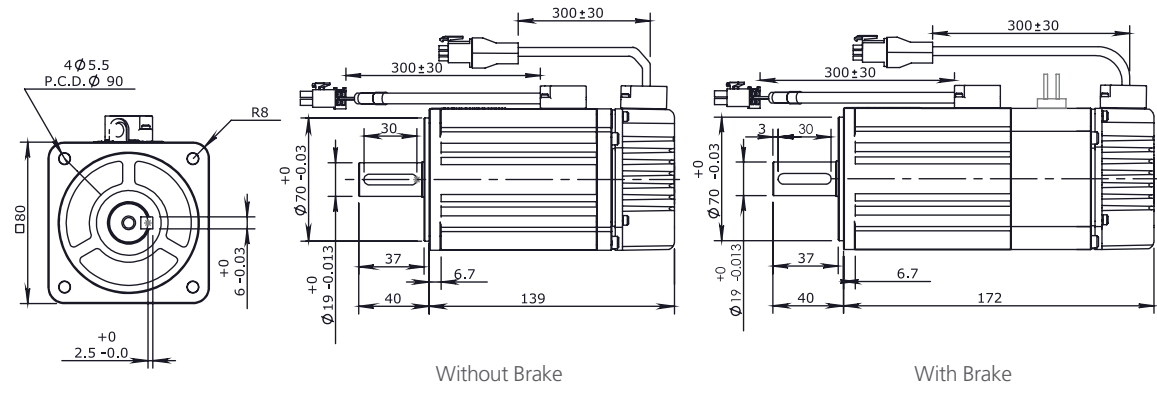
MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-D06201C	MT-D06201C	80.5	117
MT-D06401C	MT-D06401C	95.5	132



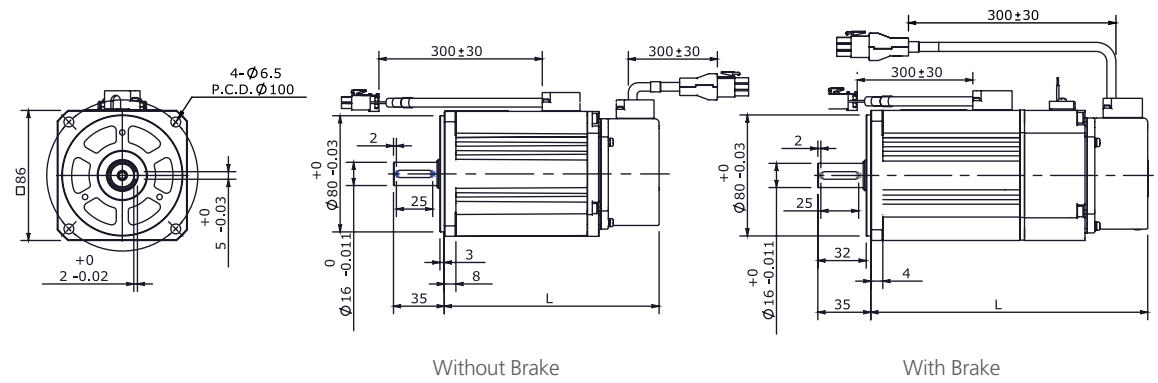
MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-B07301C	MT-B07301C	113.4	147.8



MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-C08751C	MT-C08751C	139	172

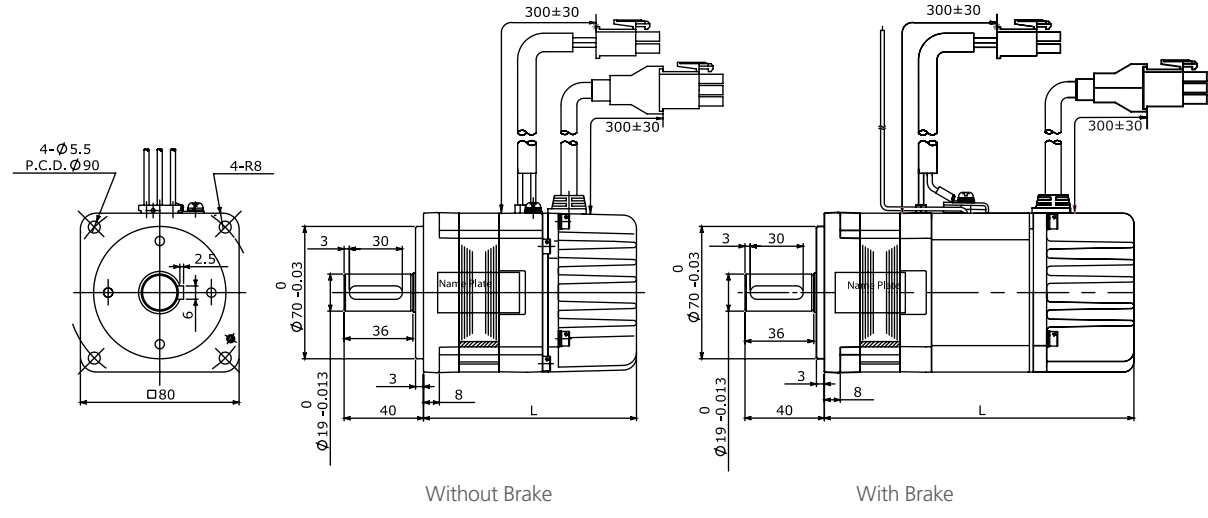


MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-B08751C	MT-B08751C	148	183.2



Motor Mating Connector for the following motors: Motor Power (U V W) w/o brake: Mil MS3108A20-4S
 Motor Power (U V W) with brake: Mil MS3108A20-4S Motor Feedback: Mil MS3108A20-18S

MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-D08751C	MT-D08751C	102	137



Servo Motor Dimensions Cont.

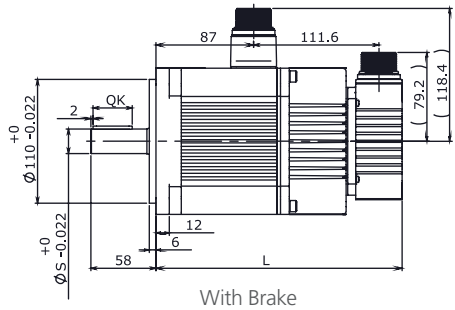
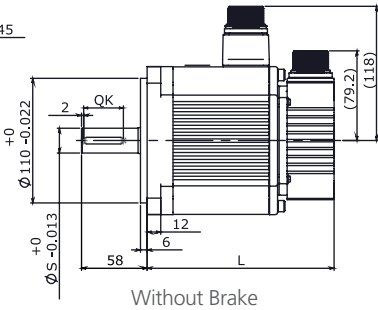
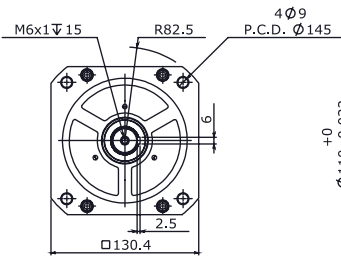
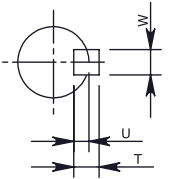
Motor Mating Connector for the following motors: MMotor Power (U V W) w/o brake: Mil MS3108A32-17S

Motor Power (U V W) with brake: Mil MS3108A10SL-3S **Motor Feedback:** Mil MS3108A20-18S

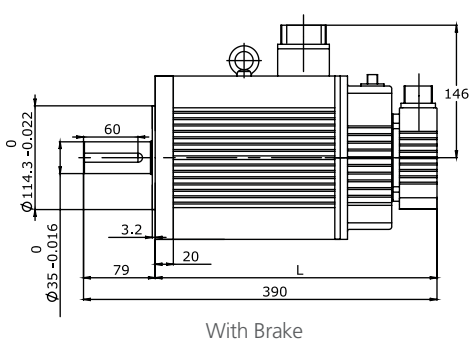
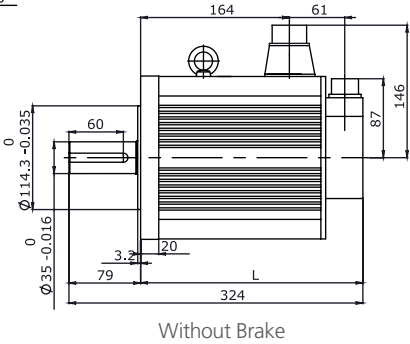
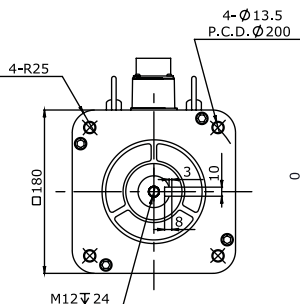
MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake	Model	L (mm) Without Brake	L (mm) With Brake
MT-B13551A	MT-B13551A	164.8	219.3	MT-B13152C	164.8	219.3
MT-B13102A	MT-B13102A	214.8	269.3	MT-B13202B	214.8	269.3
MT-B13102B	MT-B13102B	164.8	219.3	MT-B13302B	264.8	319.3
MT-B13152A	MT-B13152A	264.8	319.3	MT-B13302C	214.8	269.3
MT-B13152B	MT-B13152B	184.8	239.3			

Dimension of Shaft and Key Size

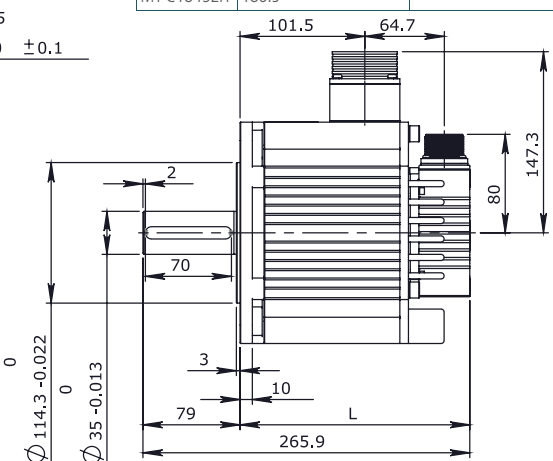
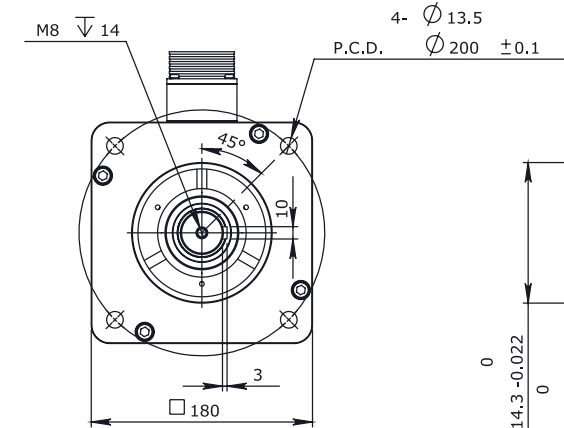
	S	QK	U	W	T
Option 1	22	36	3.5	6	6
Option 2	24	35	4	8	7



MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-A18302H	MT-A18302H	245	311
MT-A18442H	MT-A18442H	274	340



MTHD Servo Motor	Model	L (mm) Without Brake	L (mm) With Brake
MT-C18452H	MT-C18452H	186.9	-



Servo Motor Dimensions Cont.

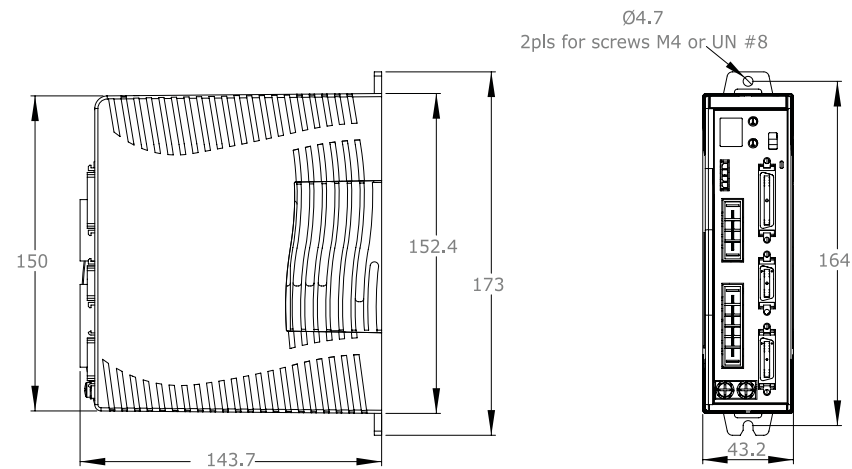
Ratings	1D5	003	4D5	006	008	010	012	013	020	024	030
Input Power Main Circuit 120/240 VAC	1 Phase	1 Phase	1/3 Phase	1/3 Phase	1/3 Phase	1/3 Phase	-	3 Phase	3 Phase	3 Phase	-
Input Power Main Circuit 400/480 VAC	-	3 Phase	-	3 Phase	-	-	3 Phase	-	-	3 Phase	3 Phase
Continuous Current A rms	1.5	3	4.5	6	8	10	12	13	20	24	30
Peak Current A rms	4.5	9	18	18	28	28	24	28	48	48 or 72	90

Basic Specifications		
Motors	DC Brushless, DC Brush	Rotary servomotors, Linear servomotors
Current (Torque) Control	Performance	Update rate 31.25 μs (32 kHz), Output waveform sinusoidal
	Step Response Time	Actual current reaches command in two cycles- 62.5 μs (up to 3kHz)
	Control Loop	DQ, PI, Feed-forward
Velocity Control	Performance	Update rate 125 μs (8 kHz)
	Selectable Velocity Control Loops	PI, PDFF, Standard pole placement, Advance pole placement, Standard pole placement high frequency, Pole placement with active dumping
	Filters	First order low pass filter, Double first order low pass filter, Notch, High pass filter, Band pass filter, User defined polynomial filter
Position Control	Performance	Update rate 250 μs (4 kHz)
	Control loop	PID and feed-forward
HD Control (Position & Velocity or Velocity)	Performance	Update rate 250 μS (4 kHz)
	Control Loop	Non-linear control algorithm provides very low tracking error, zero or minimum settling time and smooth movement; includes an adaptive feed-forward feature that is applied at end of movement to achieve zero or minimum settling time
	Filters	One second order low pass, two notch filters, and other filters to handle flexible and resonant systems
Reference Command	Current/Velocity Command	Analog Voltage ±10 VDC, Serial RS232 or USB*, CANopen®, EtherCAT®, PWM*
	Position Command	Pulse & Direction with electronic gearing, Serial RS232 or USB*, CANopen®, EtherCAT®, PWM*
Auto Tuning	Method	Automatic self-configuration optimization of motor phasing, wires, current loop, HD loop, automatic inertia load measurement
Brake	Method	Control stops: several dynamic brake and active disable options
Display	Method	7-segment LED (green), display drive status
GUI	User Interface	ServoStudio Windows-based application, Setting, Drive, Motor, Feedback, I/O motion information selection/configuration, Fault history/display, Setup wizard, Expert view
Protective Functions	Under and over-voltage, over-current, drive and motor over-temperature, motor foldback, drive foldback, feedback lost, not configured and more	
Compliance Standard	UL - UL508c (compliance testing in progress by TUV), STO - Safe Torque Off (compliance testing in progress), RoHS	
	CE - EMC Directive 2004/108/E, standard IEC61800-3, CE Low Voltage Directive 20061951EC IEC61800-5-1	
Environment	Ambient temperature: Operation 0-45°C, Storage 0-70°C, Humidity: 10-90% Altitude: < 1000m. If >1000m, derate 5% per 330m, Vibration: 0.5g	
Protection / Pollution	Protection class: IP20, pollution degree: 2 as per IEC 60664-1	
Communications		
CANopen®*	CANopen® – CiA 301 application layer and the CiA 402 device profile for drives and motion control, Baud rate 0.5M 1M bit/s	
EtherCAT®*	CiA 301 application layer and the CiA 402 device profile for drives and motion control	
PWM*	Pulse Width Modulation current command	
RS232	ASCII-based, ServoStudio, HyperTerminal, Baud rate 115200 bit/s	
USB*	ASCII-based, ServoStudio, HyperTerminal, Baud rate 115200 bit/s	
Daisy Chain	Up to 8 axes, Axis address setting from 0-99 using two Rotary switches	
I/Os		
First Analog Input	Voltage Range	
Second Analog Input*	Voltage Range	
Pulse & Direction	Signal	
Equivalent Encoder Output	Signal	
11x Digital Inputs	Signal	
6x Digital Output	Signal	
Analog Output	Signal	
Secondary Feedback	Signal	
Fault Output Relay	Signal	
Motor Feedback		
From Drive	Supply Voltage	
Incremental Encoder	Signal	
Hall Sensor	Signal	
Resolver	Signal	
Sine Encoder	Signal	
SSI Encoder	Signal	
Motor Temperature	Signal	

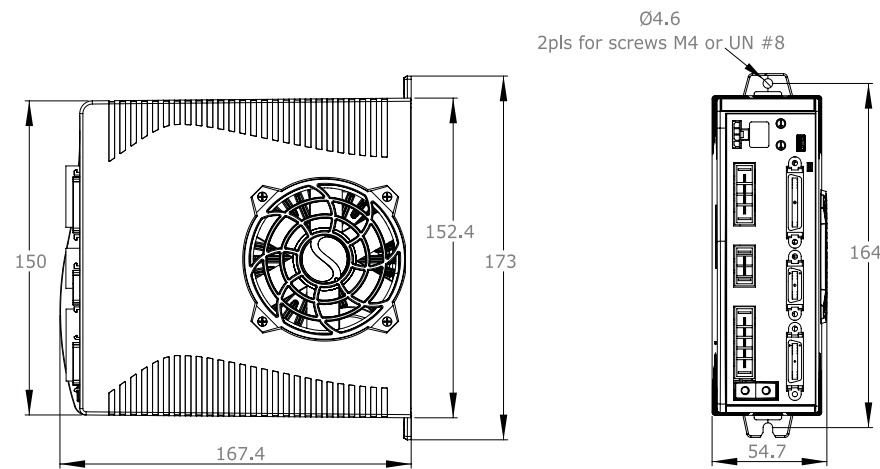
* Some features are not available on all models. Check the ordering information, or contact your distributor.

Servo Drive Dimensions (mm) 120/240 VAC

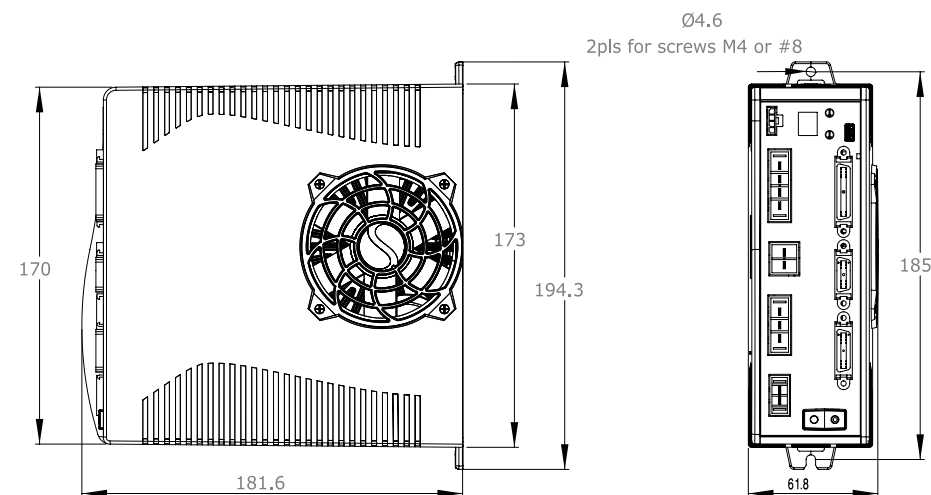
CDHD-1D5 (Without FAN), CDHD-003



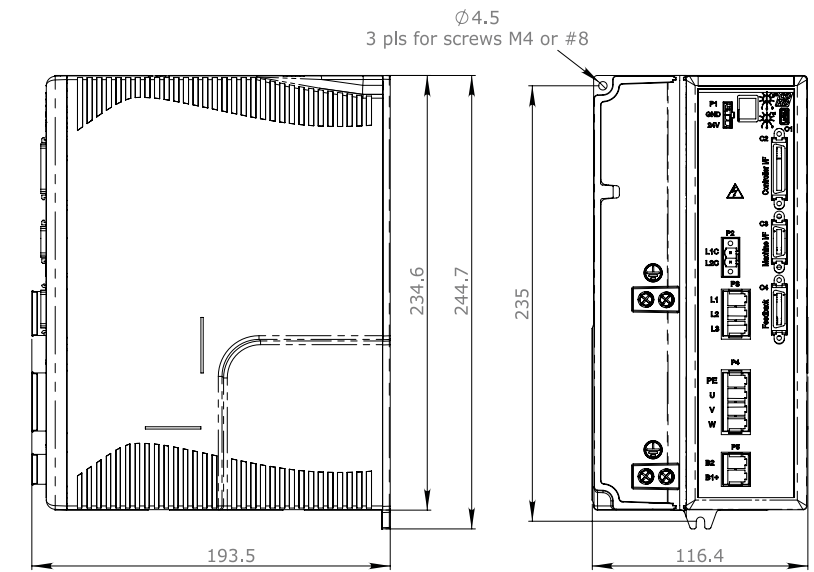
CDHD-4D5, CDHD-006



CDHD-008, CDHD-010, CDHD-013

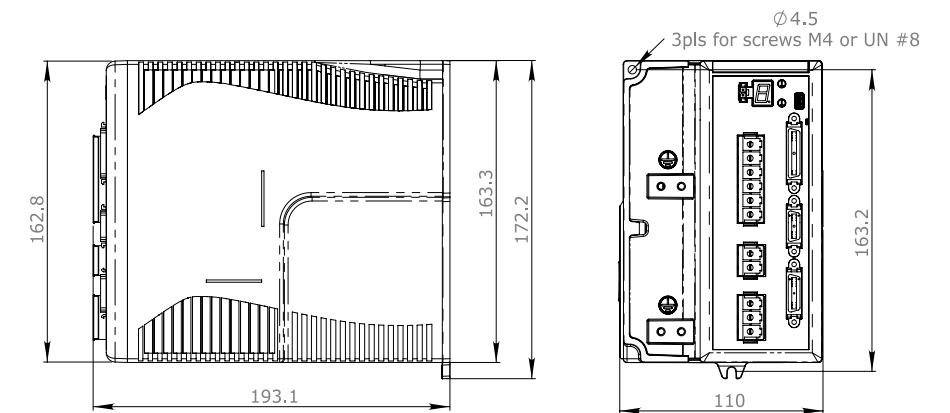


CDHD-020, CDHD-024

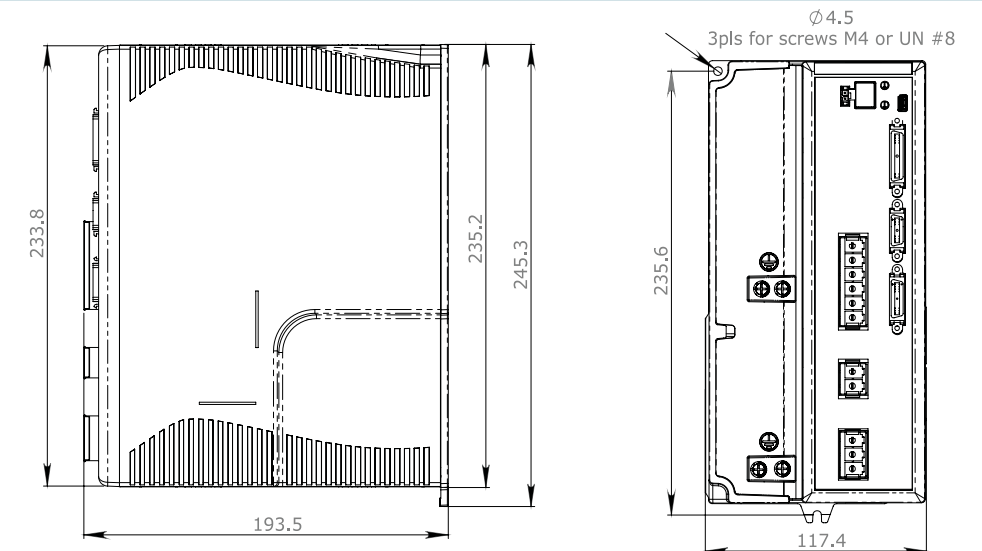


Servo Drive Dimensions (mm) 400/480 VAC

CDHD-003, CDHD-006

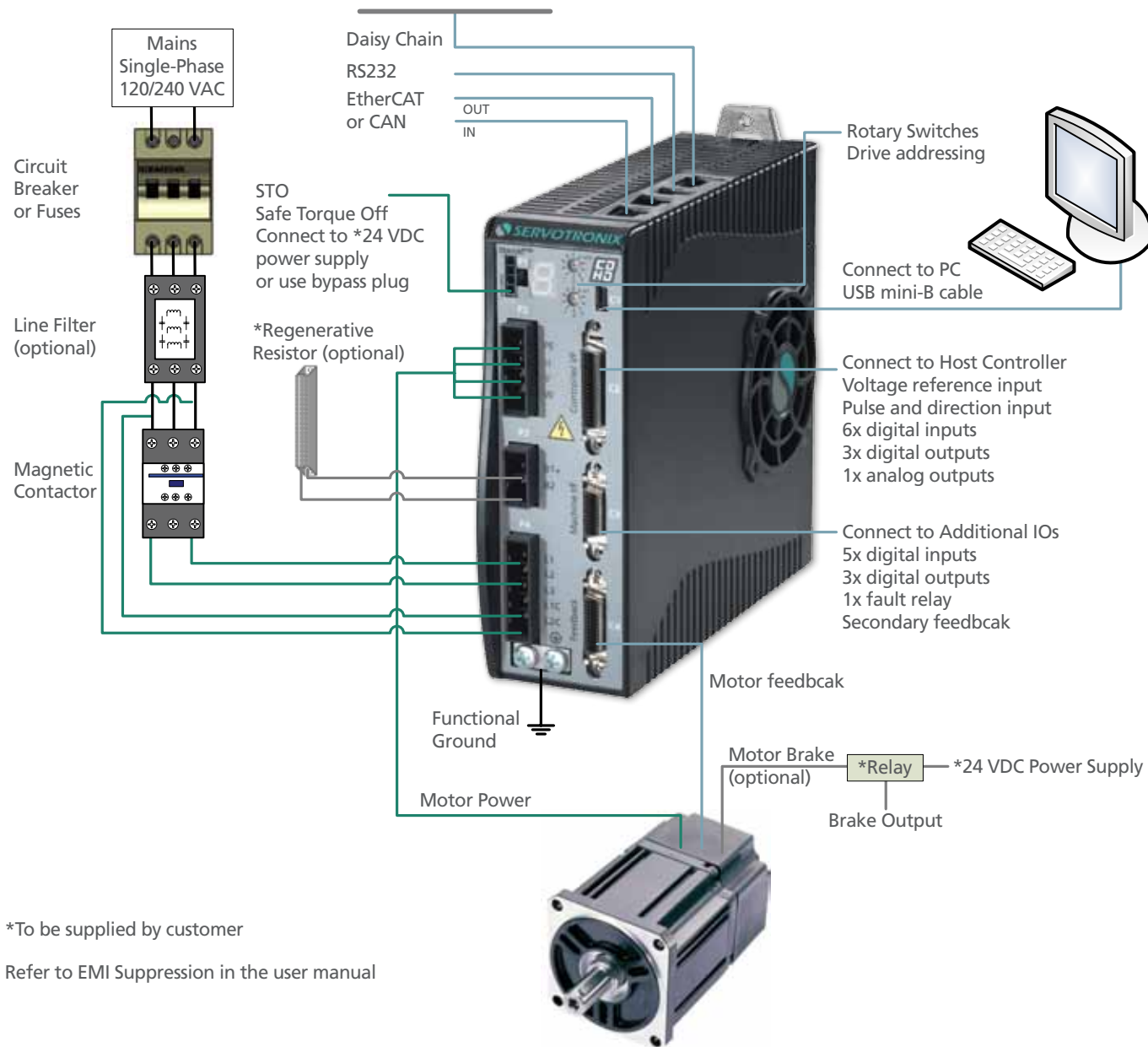


CDHD-012



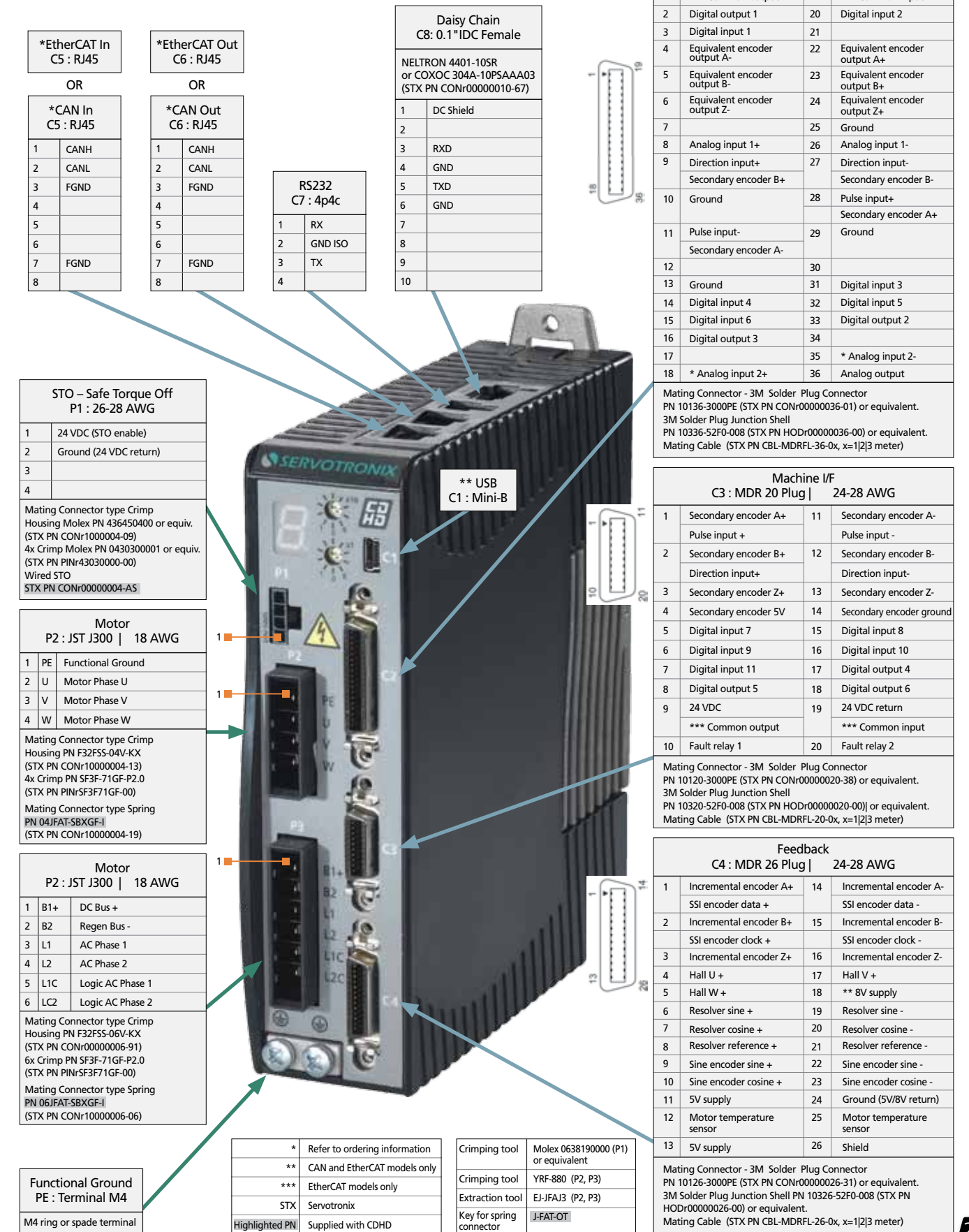
Typical System Wiring Diagram

CDHD-4D5, CDHD-006



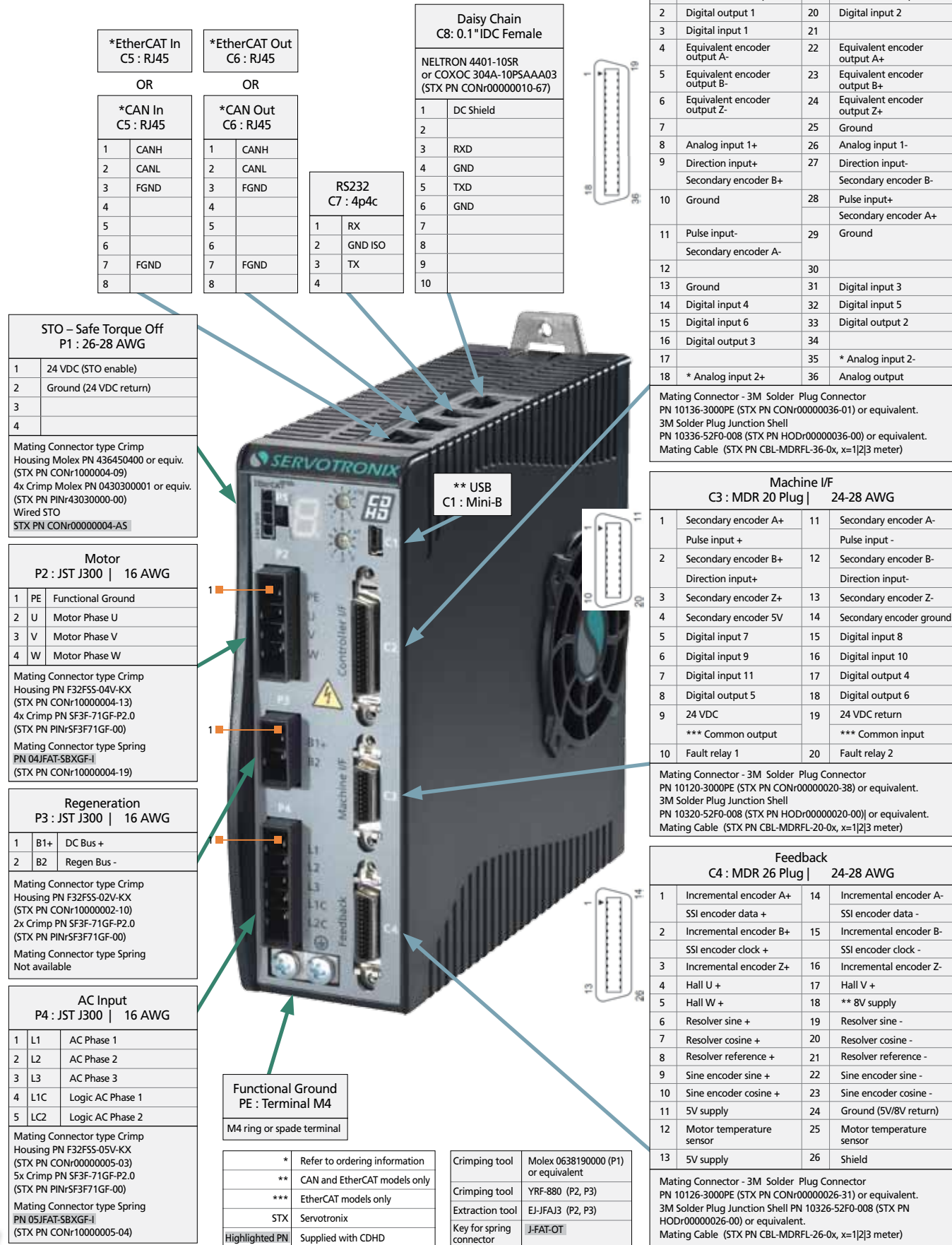
Servo Drive Pin Assignments 120/240 VAC

CDHD-1D5, CDHD-003



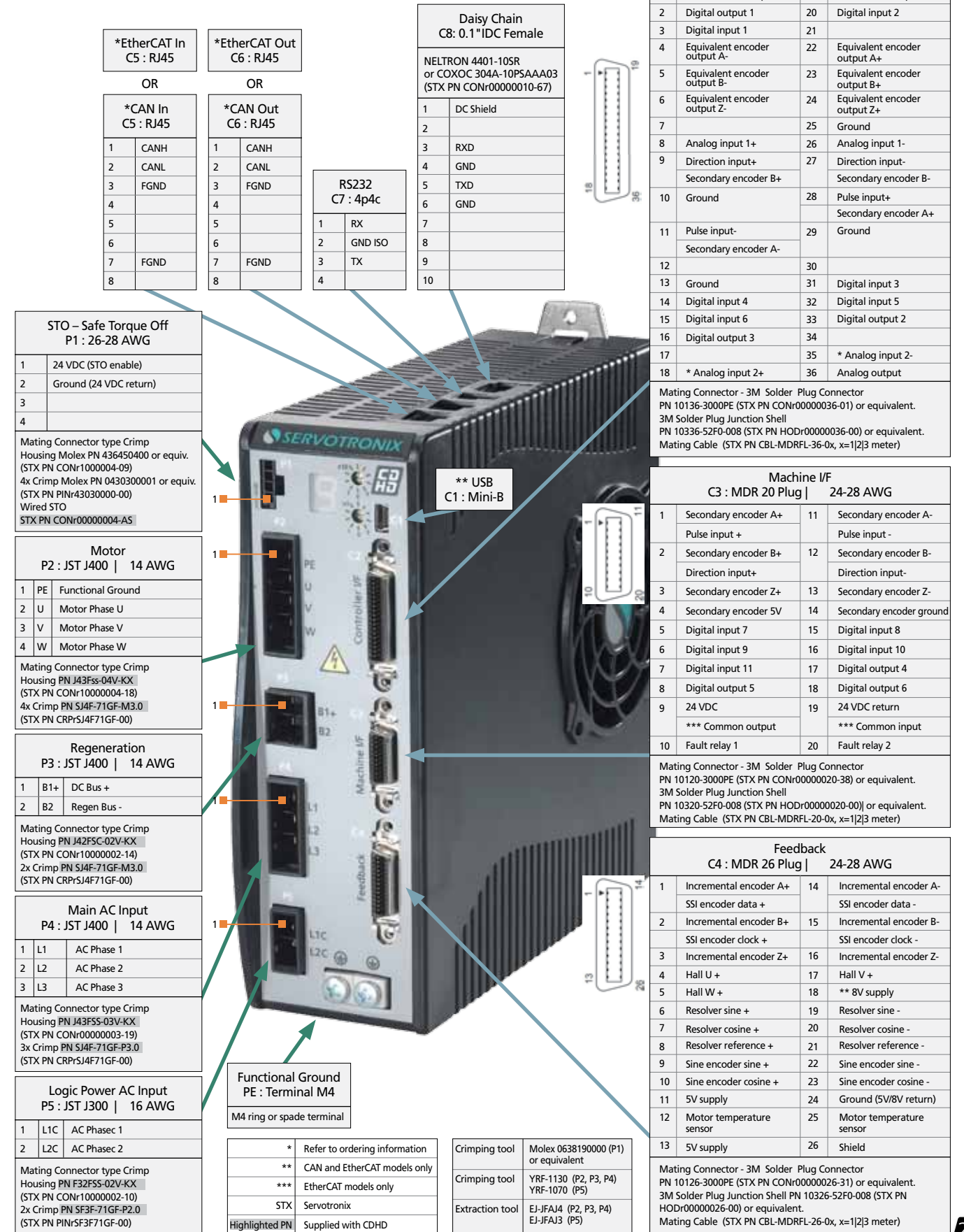
Servo Drive Pin Assignments 120/240 VAC

CDHD-4D5, CDHD-006



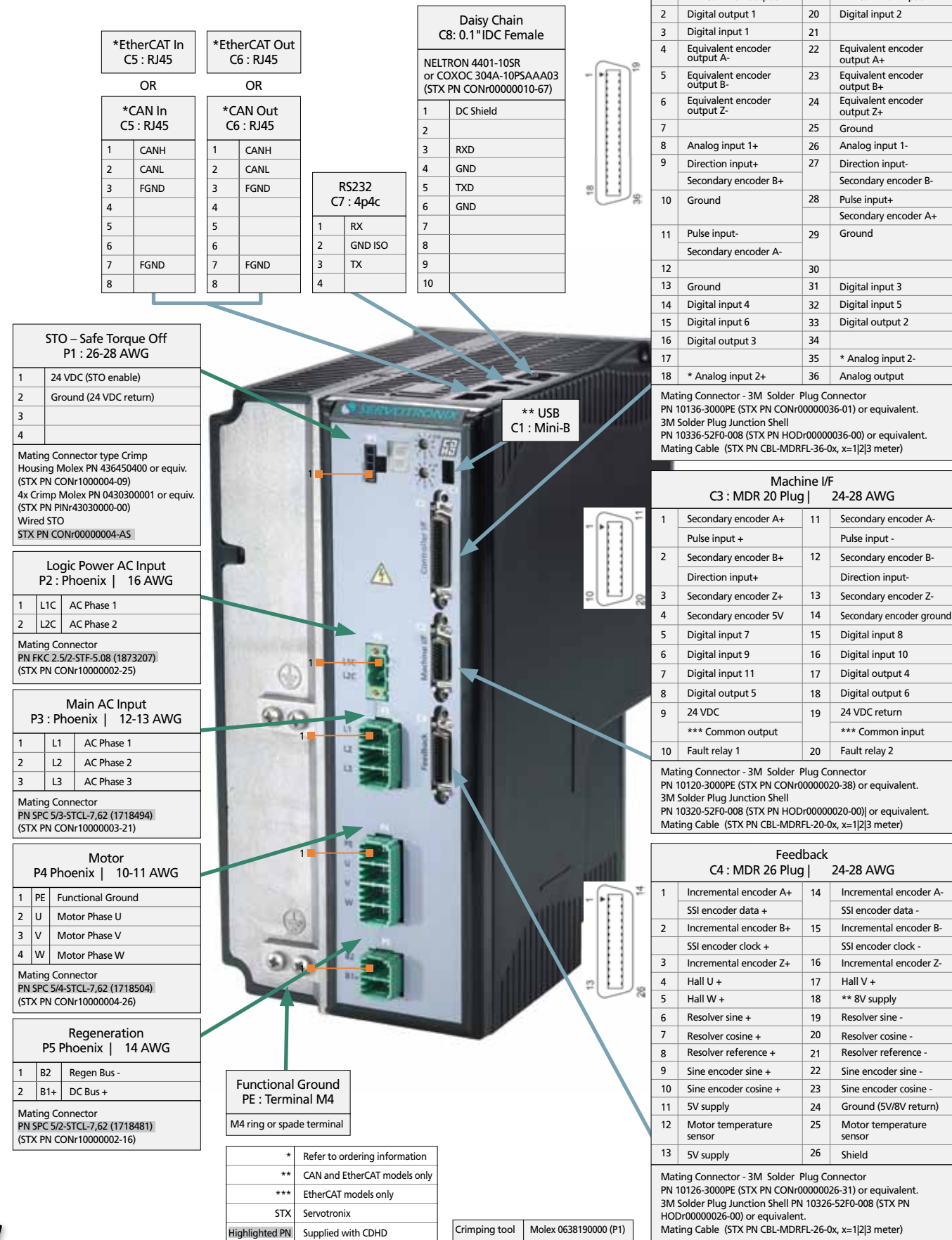
Servo Drive Pin Assignments 120/240 VAC

CDHD-008, CDHD-010, CDHD-013



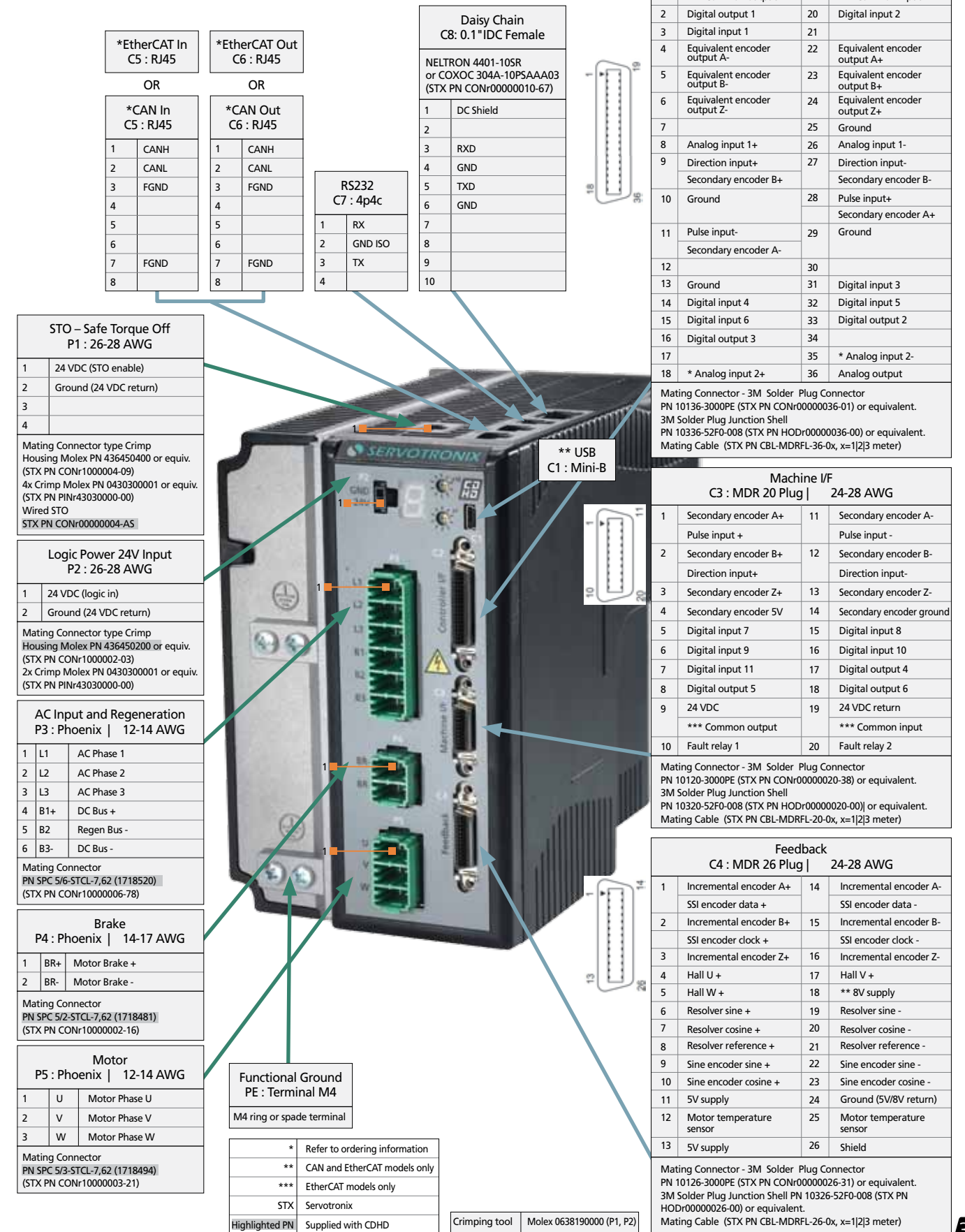
Servo Drive Pin Assignments 120/240 VAC

CDHD-020, CDHD-024



Servo Drive Pin Assignments 400/480 VAC

CDHD-003, CDHD-006



Servo Drive Pin Assignments 400/480 VAC

CDHD-012

***EtherCAT In**
C5 : RJ45

***EtherCAT Out**
C6 : RJ45

***CAN In**
C5 : RJ45

***CAN Out**
C6 : RJ45

Daisy Chain
C8: 0.1" IDC Female

NELTRON 4401-10SR
or COXOC 304A-10PSAAA03
(STX PN CONr00000010-67)

1 DC Shield

2 RXD

3 GND

4 TXD

5 GND

6 TX

7

8

9

10

RS232
C7 : 4p4c

1 RX

2 GND ISO

3 TX

4

STO – Safe Torque Off
P1 : 26-28 AWG

1 24 VDC (STO enable)

2 Ground (24 VDC return)

3

4

Mating Connector type Crimp
Housing Molex PN 436450400 or equiv.
(STX PN CONr1000004-09)
4x Crimp Molex PN 0430300001 or equiv.
(STX PN PINr43030000-00)
Wired STO
STX PN CONr00000004-AS

Logic Power 24V Input
P2 : 26-28 AWG

1 24 VDC (logic in)

2 Ground (24 VDC return)

Mating Connector type Crimp
Housing Molex PN 436450200 or equiv.
(STX PN CONr1000002-03)
2x Crimp Molex PN 0430300001 or equiv.
(STX PN PINr43030000-00)

AC Input and Regeneration
P3 : Phoenix | 12-14 AWG

1 L1 AC Phase 1

2 L2 AC Phase 2

3 L3 AC Phase 3

4 B1+ DC Bus +

5 B2 Regen Bus -

6 B3- DC Bus -

Mating Connector
PN SPC 5/6-STCL-7,62 (1718520)
(STX PN CONr10000006-78)

Brake
P4 : Phoenix | 14-17 AWG

1 BR+ Motor Brake +

2 BR- Motor Brake -

Mating Connector
PN SPC 5/2-STCL-7,62 (1718481)
(STX PN CONr10000002-16)

Motor
P5 : Phoenix | 12-14 AWG

1 U Motor Phase U

2 V Motor Phase V

3 W Motor Phase W

Mating Connector
PN SPC 5/3-STCL-7,62 (1718494)
(STX PN CONr10000003-21)

Functional Ground
PE : Terminal M4

M4 ring or spade terminal

* Refer to ordering information

** CAN and EtherCAT models only

*** EtherCAT models only

STX Servotronics

Highlighted PN Supplied with CDHD

CONTROLLER I/F
C2 : MDR 36 Plug | 24-28 AWG

1 24 VDC return	19 24 VDC
*** Common output	*** Common input
2 Digital output 1	20 Digital input 2
3 Digital input 1	21
4 Equivalent encoder output A-	22 Equivalent encoder output A+
5 Equivalent encoder output B-	23 Equivalent encoder output B+
6 Equivalent encoder output Z-	24 Equivalent encoder output Z+
7	25 Ground
8 Analog input 1+	26 Analog input 1-
9 Direction input+	27 Direction input-
Secondary encoder B+	28 Pulse input+
10 Ground	29 Secondary encoder A+
11 Pulse input-	30 Ground
Secondary encoder A-	31 Digital input 3
12	32 Digital input 5
13 Ground	33 Digital output 2
14 Digital input 4	34
15 Digital input 6	35 * Analog input 2-
16 Digital output 3	36 Analog output
17	
18 * Analog input 2+	

Mating Connector - 3M Solder Plug Connector
PN 10136-3000PE (STX PN CONr00000036-01) or equivalent.
3M Solder Plug Junction Shell
PN 10336-52F0-008 (STX PN HODr00000036-00) or equivalent.
Mating Cable (STX PN CBL-MDRFL-36-0x, x=1|2|3 meter)

Machine I/F
C3 : MDR 20 Plug | 24-28 AWG

1 Secondary encoder A+	11 Secondary encoder A-
Pulse input +	Pulse input -
2 Secondary encoder B+	12 Secondary encoder B-
Direction input+	Direction input-
3 Secondary encoder Z+	13 Secondary encoder Z-
4 Secondary encoder 5V	14 Secondary encoder ground
5 Digital input 7	15 Digital input 8
6 Digital input 9	16 Digital input 10
7 Digital input 11	17 Digital output 4
8 Digital output 5	18 Digital output 6
9 24 VDC	19 24 VDC return
*** Common output	*** Common input
10 Fault relay 1	20 Fault relay 2

Mating Connector - 3M Solder Plug Connector
PN 10120-3000PE (STX PN CONr00000020-38) or equivalent.
3M Solder Plug Junction Shell
PN 10320-52F0-008 (STX PN HODr00000020-00) or equivalent.
Mating Cable (STX PN CBL-MDRFL-20-0x, x=1|2|3 meter)

Feedback
C4 : MDR 26 Plug | 24-28 AWG

1 Incremental encoder A+	14 Incremental encoder A-
SSI encoder data +	SSI encoder data -
2 Incremental encoder B+	15 Incremental encoder B-
SSI encoder clock +	SSI encoder clock -
3 Incremental encoder Z+	16 Incremental encoder Z-
4 Hall U +	17 Hall V +
5 Hall W +	18 ** 8V supply
6 Resolver sine +	19 Resolver sine -
7 Resolver cosine +	20 Resolver cosine -
8 Resolver reference +	21 Resolver reference -
9 Sine encoder sine +	22 Sine encoder sine -
10 Sine encoder cosine +	23 Sine encoder cosine -
11 5V supply	24 Ground (5V/8V return)
12 Motor temperature sensor	25 Motor temperature sensor
13 5V supply	26 Shield

Mating Connector - 3M Solder Plug Connector
PN 10126-3000PE (STX PN CONr00000026-31) or equivalent.
3M Solder Plug Junction Shell PN 10326-52F0-008 (STX PN HODr00000026-00) or equivalent.
Mating Cable (STX PN CBL-MDRFL-26-0x, x=1|2|3 meter)

4/40 insert threads on C2, C3, C4

Cables

Controller cables with flying leads

Model	Specifications	CDHD connector	Length (Unit: m)	Appearance
CBL-MDRFL-36-01 CBL-MDRFL-36-02 CBL-MDRFL-36-03	MDR 36 and flying leads cable. Controller I/F	C2	1 2 3	
CBL-MDRFL-20-01 CBL-MDRFL-20-02 CBL-MDRFL-20-03	MDR 20 and flying leads cable. Machine I/F	C3	1 2 3	
CBL-MDRFL-26-01 CBL-MDRFL-26-02 CBL-MDRFL-26-03	MDR 26 and flying leads cable. Motor feedback	C4	1 2 3	

Motor power (UVW) cables 120/240 VAC

Model	Specifications	Motor connector	CDHD configuration	Length (Unit: m)	Appearance
CBL-P2AN3N00-01 CBL-P2AN3N00-02 CBL-P2AN3N00-03	Motor power (UVW) cable without shield. Conductor size AWG (mm2) 18 (0.8)	AMP	120/240 VAC CDHD-1D5 CDHD-003	1 2 3	
CBL-P2BN3N00-01 CBL-P2BN3N00-02 CBL-P2BN3N00-03	Motor power (UVW) cable without shield. Conductor size AWG (mm2) 16 (1.3)	AMP	120/240 VAC CDHD-4D5 CDHD-006	1 2 3	
CBL-P2BNAS00-01 CBL-P2BNAS00-02 CBL-P2BNAS00-03	Motor power (UVW) cable with shield without brake. Conductor size AWG (mm2) 16 (1.3)	MIL	120/240 VAC CDHD-4D5 CDHD-006	1 2 3	
CBL-P2BBAS00-01 CBL-P2BBAS00-02 CBL-P2BBAS00-03	Motor power (UVW) cable with brake and shield. Conductor size AWG (mm2) 16 (1.3) brake	MIL	120/240 VAC CDHD-4D5 CDHD-006	1 2 3	
CBL-P2CNAS00-01 CBL-P2CNAS00-02 CBL-P2CNAS00-03	Motor power (UVW) cable with shield without brake. Conductor size AWG (mm2) 14 (2)	MIL	120/240 VAC CDHD-008 CDHD-010 CDHD-013	1 2 3	
CBL-P2CBAS00-01 CBL-P2CBAS00-02 CBL-P2CBAS00-03	Motor power (UVW) cable with brake and shield. Conductor size AWG (mm2) 14 (2)	MIL	120/240 VAC CDHD-010 CDHD-013	1 2 3	

Motor feedback cables

Model	Specifications	Motor connector	CDHD configuration	Length (Unit: m)	Appearance
CBL-F-T-3-00-01 CBL-F-T-3-00-02 CBL-F-T-3-00-03	Motor feedback cable with shield for Tamagawa incremental encoder 2500 C/T and 8192 C/T	AMP	All	1 2 3	
CBL-F-7-3-00-01 CBL-F-7-3-00-02 CBL-F-7-3-00-03	Motor feedback cable with shield for Tamagawa absolute 17 encoder	AMP	All	1 2 3	
CBL-F-T-A-00-01 CBL-F-T-A-00-02 CBL-F-T-A-00-03	Motor feedback cable with shield for Tamagawa incremental encoder 2500 C/T and 8192 C/T	MIL	All	1 2 3	
CBL-F-7-A-00-01 CBL-F-7-A-00-02 CBL-F-7-A-00-03	Motor feedback cable with shield for Tamagawa absolute 17 encoder	MIL	All	1 2 3	

For other cables configuration please contact us at info@servotronics.com

Optional Accessories

Model	Specification	CDHD configuration	Connectors	Picture
KIT-2A-PWSPR-00*	CDHD Power Mating Spring	120/240VAC CDHD-1D5 CDHD-003	P2 P3	
KIT-2A-POWER-00	CDHD Power Mating Crimp	120/240VAC CDHD-1D5 CDHD-003	P2 P3	
KIT-2B-PWSPR-00*	CDHD Power Mating Spring	120/240VAC CDHD-4D5 CDHD-006	P2 P3 P4	
KIT-2B-POWER-00	CDHD Power Mating Crimp	120/240VAC CDHD-4D5 CDHD-006	P2 P3 P4	
KIT-2C-POWER-00*	CDHD Power Mating Crimp	120/240VAC CDHD-008 CDHD-010 CDHD-013	P2 P3 P4 P5	
KIT-2D-PWSPR-00*	CDHD Power Mating Spring	120/240VAC CDHD-020 CDHD-024	P2 P3 P4 P5	
KIT-4A-PWSPR-00	CDHD Power Mating Spring	400/480VAC CDHD-003 CDHD-006 CDHD-012	P2 P3 P4 P5	

*Included with the product when ordered.

Model	Specification	Connectors	Picture
KIT-USBRS232-00	Adapter Cables Kit-PC USB type A to RS232	C7	
KIT-24VBRAKE-00	Brake Circuit Kit	-	
CBLr0000USBA-00	USB Cable, PC type A to Mini-B, 1.5m	C1	
CONr00000004-AS	STO Jumper Connector	P1	
CONr10000004-09	STO Connector	P1	
PINr43030000-00	STO Connector Crimp (4 crimps required)	P1	
CBLrCDHDSTO0-00	STO Cable, 2 Wires, 2m	P1	
ADPrCAN_D9-RJ45	ADAPTER, CAN, D9 TO RJ45	-	

Feedback Device

*Letter/ number represents the feedback device for motor ordering information

T* - Tamagawa 2500 C/T (2500 counts per motor mechanical turn)

Y* - Tamagawa 8192 C/T (8192 counts per motor mechanical turn)

Incremental encoders with Hall sensors and index pulse. A, B and Z signals use the same wiring as Hall sensors U, V, and W. On power up, feedback briefly sends Hall readings, and then continuously sends the A, B and Z signals.

CDHD C4 MDR 26 Pin		Motor Feedback AMP Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	3	Incremental A+ / Hall U+
14		4	Incremental A- / Hall U-
2	Twisted Pair	5	Incremental B+ / Hall V+
15		6	Incremental B- / Hall V-
3	Twisted Pair	7	Incremental Z+ / Hall W+
16		8	Incremental Z- / Hall W-
11		1	+5 VDC
24		2	0 VDC
26		9	Shield

CDHD C4 MDR 26 Pin		Motor Feedback Mil Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	A	Incremental A+ / Hall U+
14		C	Incremental A- / Hall U-
2	Twisted Pair	H	Incremental B+ / Hall V+
15		D	Incremental B- / Hall V-
3	Twisted Pair	G	Incremental Z+ / Hall W+
16		E	Incremental Z- / Hall W-
11		B	+5 VDC
24		I	0 VDC
26		F	Shield

M*, 5* - Tamagawa 15 bit multi turn (special order)

A serial digital data encoder. This is a full absolute encoder with 17 or 15-bit per revolution resolution. When the battery is disconnected, it functions as a full absolute encoder that transmits absolute position data at 17 or 15-bit per revolution.

CDHD C4 MDR 26 Pin		Motor Feedback AMP Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	5	Serial Data +
14		6	Serial Data -
11		1	+5 VDC
24		2	0 VDC
26		9	Shield
		VB	Battery Voltage
		GND	Battery Ground

CDHD C4 MDR 26 Pin		Motor Feedback Mil Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	H	Serial Data +
14		D	Serial Data -
11		B	+5 VDC
24		I	0 VDC
26		G	Shield
		VB	Battery Voltage
		GND	Battery Ground

Encoder backup battery is external to the CDHD drive. Voltage must be more than 3.6 VDC. The recommended battery is lithium (ER3V: 3.6V, 1000mAh), manufactured by Toshiba Corp.



Feedback Device Cont.

7* - Tamagawa 17 bit - Single Turn

A serial digital data encoder. This single-turn absolute encoder transmits absolute position data at 17-bit per revolution.

CDHD C4 MDR 26 Pin		Motor Feedback AMP Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	5	Serial Data +
14		6	Serial Data -
11		1	+5 VDC
24		2	0 VDC
26		9	Shield

CDHD C4 MDR 26 Pin		Motor Feedback Mil Connector	
Pin #	Twisted Pair	Pin #	Signal
1	Twisted Pair	H	Serial Data +
14		D	Serial Data -
11		B	+5 VDC
24		I	0 VDC
26		G	Shield

R* - Resolver (special order)

The position feedback signal is provided by the two sinusoidal secondary signals – sine and cosine. These secondary signals are converted into digital signals by the drive's controller.

CDHD C4 MDR 26 Pin		Motor Feedback AMP Connector	
Pin #	Twisted Pair	Pin #	Signal
6	Twisted Pair	Coming Soon	Resolver Sine +
19		Coming Soon	Resolver Sine -
7	Twisted Pair	Coming Soon	Resolver Cosine +
20		Coming Soon	Resolver Cosine -
8	Twisted Pair	Coming Soon	Resolver Ref +
21		Coming Soon	Resolver Ref -
26		9	Shield

CDHD C4 MDR 26 Pin		Motor Feedback Mil Connector	
Pin #	Twisted Pair	Pin #	Signal
6	Twisted Pair	Coming Soon	Resolver Sine +
19		Coming Soon	Resolver Sine -
7	Twisted Pair	Coming Soon	Resolver Cosine +
20		Coming Soon	Resolver Cosine -
8	Twisted Pair	Coming Soon	Resolver Ref +
21		Coming Soon	Resolver Ref -
26		F	Shield



MT *Series*

General Purpose Servo Motors

About Servotronix

Servotronix Motion Control develops and manufactures standard and customized automation solutions with a focus on motion control. With over 25 years of experience, the company has developed four generations of high performance servo drive families and motion control solutions tailored to customer needs and designed to meet the form, fit, functionality, and cost specifications of a wide range of applications and industries. With a global customer base of leading machine builders and automation system suppliers, Servotronix guiding principles are providing its customers with high-quality products, cost effective solutions, and on-time deliveries.

Play Video 

