

CS3E EtherCAT Closed Loop Stepper Drives

The CS3E series drives support CANopen over EtherCAT (CoE) control and CiA 402 operating modes including Profile Position (PP), Profile Velocity (PV), Homing (HM) and Cyclic Synchronous Position (CSP). The products can be matched with many brands of EtherCAT controller/PLC such as Beckhoff, Omron, Trio, Panasonic, etc. They can power 2-phase NEMA 8, 11, 14, 17, 23, 24, 34 stepper motors with 1000 ppr to 5000 ppr incremental encoders, for reduced heating, no hunting, lower noise and vibration, improved acceleration, etc.

Features

- No loss of step, No hunting, No torque reservation, No tuning
- Smooth, Quick, Accurate, Low heating
- 7 configurable digital inputs include touch probe, limit, origin and GPIOs
- 6 optically isolated digital outputs include alarm, in position and GPIOs
- Brake output with 24/500mA, connects motor brake cable directly without additional relay and diode
- USB port for parameters configuration
- Motor encoder with Z index signal optional, resolution 1000, 2500, 5000 ppr
- Two 7-segments display velocity or slave ID or operation mode or error code
- Protections for over voltage, over current and position following error, encoder cable error, etc.



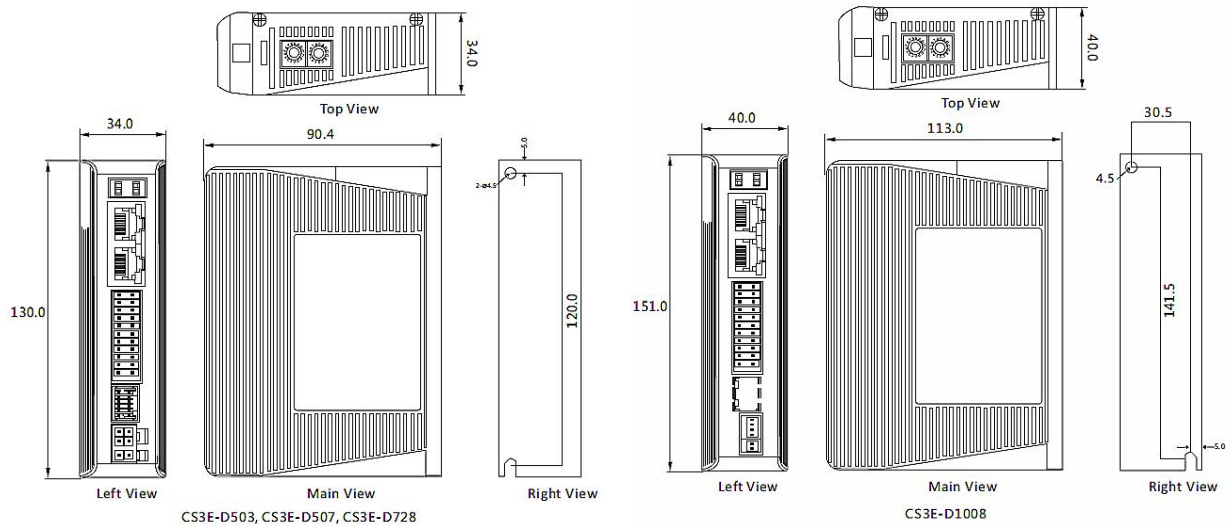
Specifications

Parameters	CS3E-D503		CS3E-D507		CS3E-D728*		CS3E-D1008	
	Min	Max	Min	Max	Min	Max	Min	Max
Output Current (A)	0.5	3.0	1.0	7.0	2.1	8.0	3.2	8.0
Power Voltage (VDC)	20	50	20	50	20	72	30	100
							20VAC	80VAC
Max Input Frequency (KHz)	-	500	-	500	-	500	-	500
Input Signal Current (mA)	7	20	7	20	7	20	7	20
Output Signal Current (mA)	-	500	-	500	-	500	-	500
Matching Motor	NEMA 08/11/14/17		NEMA 23/ 24		NEMA 34		NEMA 34	

Note: CS3E-D728 is not available now. It is recommended to use CS3E-D1008 to connect NEMA34 motors.

Mechanical Specifications

Unit: mm, 1inch=25.4mm



Part Number

CS 3E- D 50 7 □-□□□

① ② ③ ④ ⑤ ⑥ ⑦

① **Series**

CS: Closed Loop Stepper Drive

② **Control Type**

1: PUL/DIR or CW/CCW

2RS: RS485 mod-bus

3E: EtherCAT

③ **D: Drive**

④ **Max Power Voltage**

50: 50V

72: 72V

⑤ **Max Output Current**

3: 3A

7: 7A

8: 8A

⑥ **Product Version**

S: Superior version

Blank: Standard version

⑦ **Customized**

CS □- **M 2 23 13** □-□□□

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **Series**

CS: Closed Loop Stepper Motor

② **Connector Type**

Blank: Standard

2: Molex connector

③ **M: Motor**

④ **Motor Phase**

2: 2-phase

3: 3-phase

⑤ **Motor Size**

11: NEMA 11 17: NEMA 17

23: NEMA 23 24: NEMA 24

⑥ **Motor Holding Torque**

13: 1.3 N.m

23: 2.3N.m

85: 8.5N.m

⑦ **Motor Type**

Blank: Standard

B: Brake

WP: Waterproof

⑧ **Customized**

Wiring Instruction

