

EM3E EtherCAT Stepper Drives

The EM3E 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 for reduced heating, no hunting, lower noise and vibration, improved acceleration, etc.

Features

- Low noise and vibration, smooth motion.
- CANopen over EtherCAT (CoE) with full support of CiA402, 100Mbps full-duplex.
- Support operation modes: Profile Position, Profile Velocity, Cyclic Synchronous Position, Homing.
- 5 digital inputs, 2 optically isolated digital outputs for EM3E-522 / 556 / 870
7 digital inputs, 7 optically isolated digital outputs for EM3E-A882
- Limit +/-, origin, emergency stop and touch probe inputs. Alarm and brake outputs
- 20-50VDC supply voltage for EM3E-522 / EM3E-556, max 2.2A or 5.6A output current
20-80VDC supply voltage for EM3E-870, max 7.0A output current
20-80VAC or 30-100VDC supply voltage for EM3E-A882, max 8.2A output current
- Protections for over voltage, over current, motor cable error, etc.

EtherCAT[®]
Conformance tested

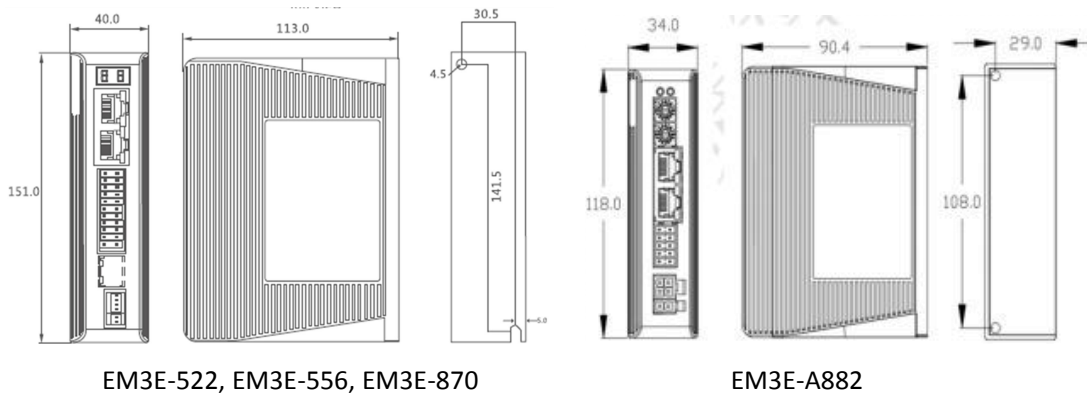


Specifications

Parameters	EM3E-522		EM3E-556		EM3E-870		EM3E-A882	
	Min	Max	Min	Max	Min	Max	Min	Max
Output Peak Current (A)	0.5	3.0	1.0	5.6	2.1	7.0	3.2	8.2
Power Voltage (VDC)	20	50	20	50	20	72	30 20VAC	100 80VAC
Max Input Frequency (KHz)	-	200	-	200	-	200	-	200
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	

Mechanical Specifications

Unit: mm, 1inch=25.4mm



EM3E-522, EM3E-556, EM3E-870

EM3E-A882

Part Number

EM 3E- □ **5 56** -□□□

① ② ③ ④ ⑤ ⑥

① Series

EM: Enhanced Stepper Drive

② Control Type

Blank: PUL/DIR or CW/CCW

2RS: RS485 mod-bus

3E: EtherCAT

③ AC or DC

Blank: DC supply voltage

A: AC supply voltage

④ Max Power Voltage

5: 50V

8: 80V

⑤ Max Output Current

22: 2.2A

56: 5.6A

82: 8.2A

⑥ Customized

57 CM 23 -□□□

① ② ③ ④

① Motor Size

20: 20mm □, NEMA 8

28: 28mm □, NEMA 11

42: 42mm □, NEMA 17

57: 57mm □, NEMA 23

D57: 60mm □, mounting size NEMA23

60: 60mm □, NEMA 24

86: 86mm □, NEMA 34

② Motor Series

CM: CM series motor

③ Motor Holding Torque

23: 2.3N.m

45: 4.5N.m

④ Customized

Blank: Standard single shaft

SZ: dual shaft

BZ: brake

FS: waterproof

0-I6: 6.35mm shaft diameter

0-I14: 14mm shaft diameter

X: product code