

EtherCAT Interface Servo Drive

ASDA A2-E

Supports EtherCAT High-speed Communication

Delta's ASDA A2-E, an advanced AC Servo Drive with an EtherCAT communication interface, complies with IEC61158 and IEC61800-7 to enable faster, real time, and accurate performance in high-end applications.

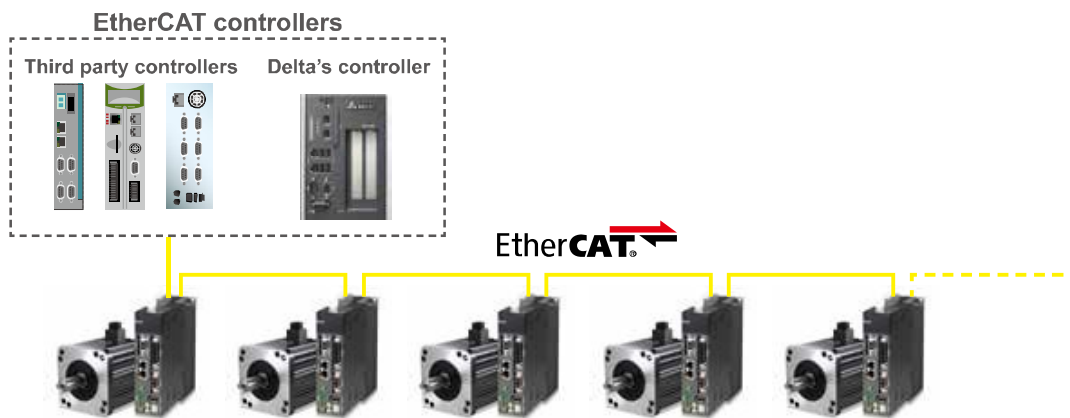
The new A2-E the supports a CoE device profile based on CiA402, and all command types of EtherCAT.

In addition to the EtherCAT communication function, the A2-E features the integrated Safe Torque Off (STO), short cycle time, and extension digital input port, which makes the A2-E ideal for multi-axis synchronization applications in a wide range of machinery automation applications. This series offers a wide range of rated power to drive motors, from 400 W to 7.5 kW for 400V and 100 W to 3 kW for 220V.



- ▶ Touch probe function can be enabled with two dedicated Digital Inputs (DI) on CN7 or the external encoder
- ▶ Integrated Safe Torque Off (STO) safety function complies with the standards of IEC61508, SIL2; IEC62061, SILCL2; ISO13849-1, Cat. 3 PL=d
- ▶ Wide power range coverage for both 220V and 400V versions
- ▶ Supports full-closed loop control
- ▶ Supports absolute type and incremental type ECMA series motors

Applications



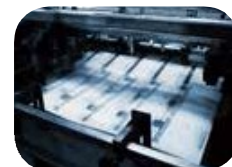
Metal Working Machines



Woodworking Machines



Food Processing

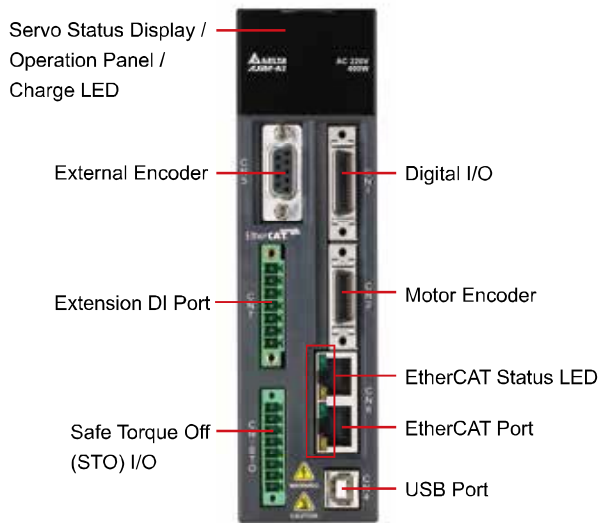


Printing Machines

■ Communication Specifications

Physical Layer	IEEE802.3u (100 BASE-TX)
EtherCAT Commands (Data Link Layer)	APRD, FPRD, BRD, LRD, APWR, FPWR, BWR, LWR, ARMW, FRMW, APRW, FPRW, BRW, LRW
Device Profile (CiA402)	Homing Mode, Profile Position Mode, Profile Velocity Mode, Profile Torque Mode, Interpolated Position Mode, Cyclic Syn. Position Mode, Cyclic Syn. Velocity Mode, Cyclic Syn. Torque Mode, Touch Probe Function, Torque Limit Function
Process Data Size	Tx: 8 Object (32 byte, Max.) Rx: 8 Object (32 byte, Max.) Dynamic Mapping Supported.
Bus Clock	DC cycle with min. 250 us
LED Indicator	EtherCAT Link/Activity Indicator (L/A) x 2 EtherCAT RUN Indicator (RUN) x 1 EtherCAT ERROR Indicator (ERR) x 1

■ Part Names and Functions



■ Accessories for ASDA A2-E

Part Number	ASD-CN5C0026
Description	CN1 connector



Part Number	ASD-CNFS0808
Description	Pack of connectors used for STO wiring, 8 pcs of connectors in one pack

