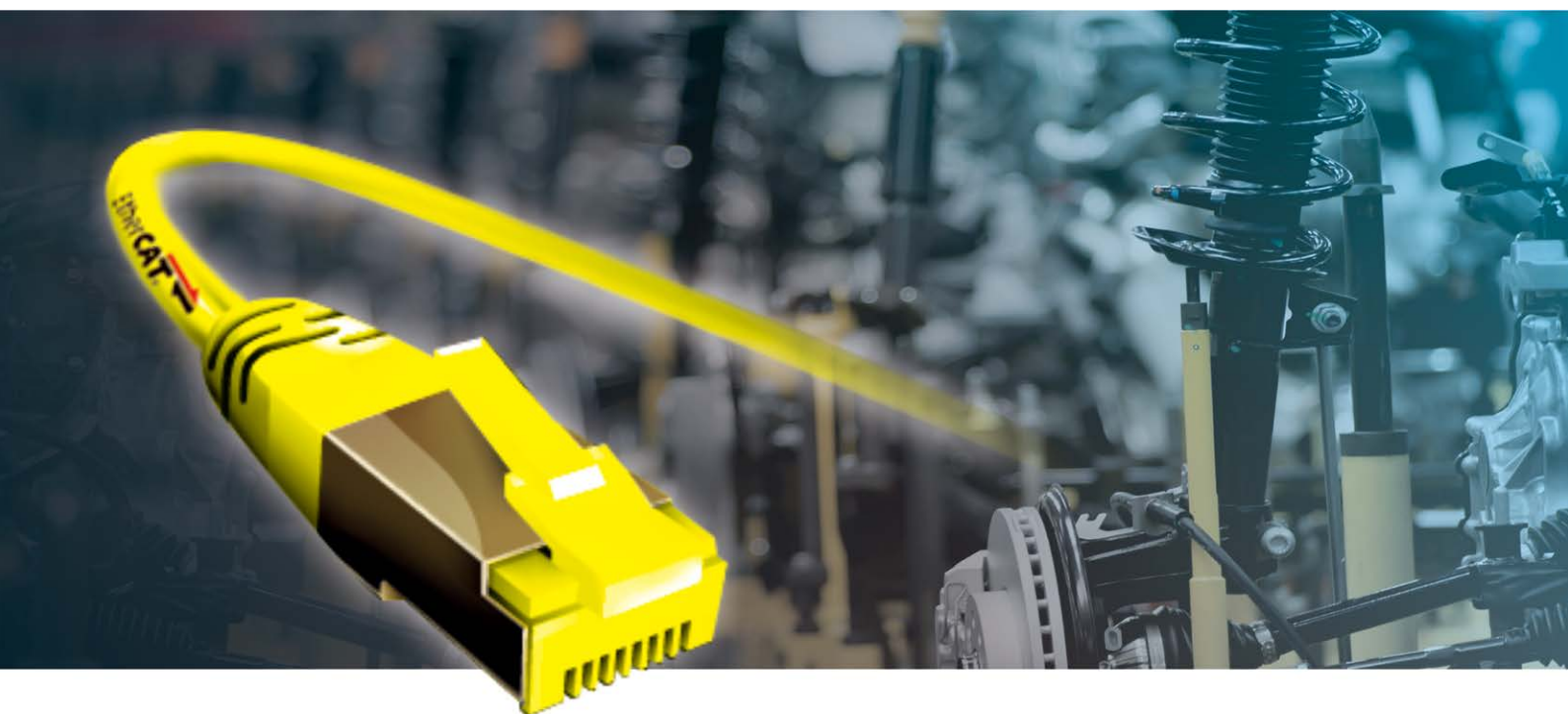


Automation for a Changing World

Delta EtherCAT Interface Servo Drive ASDA A2-E



EtherCAT® 

Delta's ASDA A2-E, an advanced AC Servo Drive with EtherCAT communication interface, complies with IEC61158 and IEC61800-7 to enable faster, real-time, and accurate performance in high-end applications. A2-E Supports CoE device profile based on CiA402, and all command types of EtherCAT.

In addition to the EtherCAT communication function, A2-E features the Safe Torque Off integrated, full-closed loop control, and vibration suppression, which makes the A2-E ideal for a wide range of machinery applications. This series covers a wide range of rated power to drive motors up to 5.5KW/400V, and is available in both 220V and 400V versions.



Drive General Specifications

| ASDA A2-E 220V | 100W | 200W | 400W | 750W | 1kW | 1.5kW | 2kW | 3kW |
|---------------------------------|--|--------|-------|-------|-------|-------|--|--------|
| Permissible Input Voltage Range | Single-phase/ Three-phase 200 ~ 230 VAC, -15% ~ +10% | | | | | | Three-phase 200 ~ 230 VAC, -15% ~ +10% | |
| Continuous Output Current | 0.9 A | 1.55 A | 2.6 A | 5.1 A | 7.3 A | 8.3 A | 13.4 A | 19.4 A |

| ASDA A2-E 400V | 400W | 750W | 1kW | 1.5kW | 2kW | 3kW | 4.5kW | 5.5kW |
|---------------------------------|--|--------|--------|--------|--------|--------|-------|--------|
| Permissible Input Voltage Range | Three-phase 380 ~ 480 VAC, -10% ~ +10% | | | | | | | |
| Continuous Output Current | 2.0 A | 3.35 A | 3.52 A | 5.02 A | 6.66 A | 11.9 A | 20 A | 22.37A |

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. |
| Synchronization mode | DC synchronization (SYNC0); Non- synchronized (Free Run) |
| LED Indicator | EtherCAT Link/Activity Indicator (L/A) x 2 EtherCAT RUN Indicator (RUN) x 1 EtherCAT ERROR Indicator (ERR) x 1 |

Touch Probe Function

Touch Probe function can be enabled with the Digital Inputs (DI) on CN7 or the encoders; among that, the feedback position can be latched as positive or negative edge with two dedicated DI on CN7. The time to latch position is short as 5 us to execute high speed performance for measuring or packaging applications.

Safe Torque Off Function

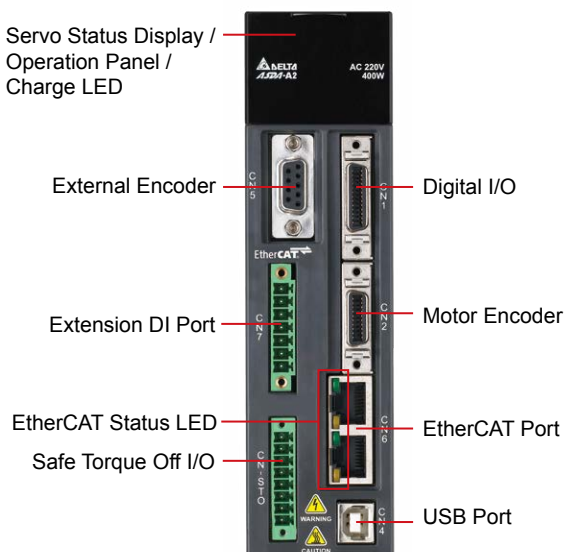
With hardware add-up as CN-STO, A2-E integrates Safe Torque Off (STO) safety function according to the standards of IEC61508, SIL2; IEC62061, SILCL2; ISO13849-1, Cat. 3 PL=d.

(Note: The certification of STO has been applied, and will be issued around Q3, 2013)

Ordering Information

| | |
|---------------------------------|--------------------------|
| ASD - A2 - 04 21 - E | |
| Product Name: AC Servo Drive | Series: A2 |
| Rated Output Power | EtherCAT model |
| 01: 100W | 15: 1.5kW |
| 02: 200W | 20: 2kW |
| 04: 400W | 30: 3kW |
| 07: 750W | 45: 4.5kW |
| 10: 1kW | 55: 5.5kW |
| | Input Voltage and Phase |
| | 21: 220V 1-phase/3-phase |
| | 23: 220V 3-phase |
| | 43: 400V 3-phase |

Part Names and Functions



Smarter. Greener. Together.

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