

3kW Universal Bus Servo Drive

This 3kW servo drive supports universal bus communication for seamless integration. It offers high performance with EtherCAT protocol and adaptability for various mechanical structures.



ADDITIONAL IMAGES



Overview

• iK3 CANOpen in non-standard tapping



- iK3-400W 4 sets
- iK3-1.5KW 6 sets
- M series Z3 Bit motor



- 8-station tapping
- K1 AS15 servo drive
- Precise tapping of the engine casing



- Fast tapping, no bad teeth
- Motor waterproof, high servo stability



Demonstration of high-performance servo stability in multi-axis automation applications.

High-Performance Universal Bus Servo Drive

This 3kW universal bus servo drive is engineered for precision motion control in demanding industrial environments. It features advanced control algorithms, including a speed loop frequency response exceeding 1.6 kHz and a current loop frequency response over 2.5 kHz, ensuring superior operational stability. With built-in EtherCAT communication and robust safety protocols like SS1, SS2, and SBC, this drive offers both high-speed performance and reliable integration for complex mechanical systems.

Technical Metrics

Key Performance Metrics

3 kW

Rated Power

16 A

Rated Current

2.5 kHz

Current Loop Frequency Response

1.6 kHz

Speed Loop Frequency Response

Control & Accuracy

- Bus synchronization accuracy < 0.1us
- 23-bit absolute encoder support
- 16-bit current sampling accuracy
- Advanced jitter and resonance suppression
- Kalman observation algorithm

Connectivity & Protocol

Communication Protocols

EtherCAT, CANopen

Safety & Environment

Safety Standards

SS1 • SS2 • SBC

Operating Conditions

Parameter	Value
Operating Temperature	0 to 45°C
Storage Temperature	-20 to 65°C
Humidity	20-85% RH (Non-condensing)
Max Altitude	1000m