

A06B-6132-H002 FANUC Alpha i Dual-Axis Servo Amplifier



Brand: FANUC

SKU: A06B-6132-H002

Category: Servo Drives / Amplifiers

Tags: Alpha i Series, FANUC SVM, Servo Drive

Price: \$4,500.00

E-mail: sales@robospares.com

Web: <https://www.robospares.com>

Product Page:

<https://www.robospares.com/product/a06b-6132-h002-fanuc-alpha-i-dual-axis-servo-amplifier>

Product Description

The FANUC A06B-6132-H002 is a crucial dual-axis Servo Amplifier Module (SVM) from the high-performance Alpha i series. This unit is an integral part of the latest FANUC drive system configuration, typically working in tandem with the A06B-6134 series Power Supply Module (PSM). The A06B-6132-H002 is designed to simultaneously provide precise control for two independent servo axes, making it suitable for driving small to medium-sized Alpha i series servo motors (e.g., AiS 4, 8, or 12). Its core function is to receive digital motion commands via the high-speed FSSB (FANUC Serial Servo Bus) communication link from the CNC or Robot Controller. It accurately converts these digital signals into controlled three-phase current, regulating the speed, torque, and position of the connected motors for high-accuracy machining and robotic operations.

Key Technical Specifications:

Part Number: A06B-6132-H002

Manufacturer: FANUC

Product Type: Dual-Axis Servo Amplifier Module (SVM)

System Series Compatibility: FANUC Alpha i (Ai) Series

Control Axes: 2 Axes

Required Power Supply: A06B-6134 series Power Supply Module (PSM)

Interface: Proprietary FSSB (FANUC Serial Servo Bus) communication

Key Function: Provides precise, closed-loop speed and torque control for two independent servo

motors.

Failure Symptoms & Diagnosis:

Failures in the A06B-6132-H002 are serious, often pointing to power component degradation or short circuits. Common alarm codes related to this module include:

- Alarms 408 / 409 (High Current / Overcurrent): Most often points to a failure of the internal IGBTs or a severe short in the motor or motor cable connected to the SVM.
- Alarm 417 (HV DC Link Voltage Failure): Although often a PSM issue, a damaged SVM can sometimes contribute to this DC link error.
- Alarm 431 (FSSB Communication Error): Indicates loss of digital data exchange between the CNC and this specific amplifier module.

RoboSpares MRO Advantage:

Guaranteed Quality: Every SVM is tested rigorously on our dedicated FANUC test benches, undergoing dynamic load simulations to verify current output integrity, temperature stability, and FSSB communication reliability across both axes before certification.

Failure Resolution: A tested, dependable replacement solution to resolve recurrent axis control failures and system alarms.

Rapid Service: Minimize critical machine downtime with extensive stock availability, quick global shipping, and efficient core Exchange Services.

Warranty: All units are backed by our industry-standard [12/24] Month operational warranty.

Application Notes & Critical Installation Steps:

The A06B-6132-H002 requires careful handling due to sensitive internal power components.

1. **Power Down Procedure:** Critical safety warning—ensure the entire control cabinet is powered down and the DC Link capacitors are fully discharged before removal or installation.
2. **Heat Dissipation:** Correct application of thermal grease or heat sink compound is necessary between the module and the cabinet mounting plate to prevent thermal overload and protect the sensitive electronics.
3. **FSSB Setting:** The small rotary or DIP switch on the module must be set to the correct FSSB address (typically defined in the machine's parameters) to allow the CNC to recognize and control the dual axes.

We strongly advise professional, qualified technicians for installation to ensure safety and correct system setup.

Supplemental Images



All specifications are subject to change without notice. Errors and omissions excepted (E&OE). This document provides detailed technical data for industrial robot components.

For current pricing, stock levels, and expedited shipping options, please visit the official product page:

<https://www.robospares.com/product/a06b-6132-h002-fanuc-alpha-i-dual-axis-servo-amplifier>

Contact our technical support team at: sales@robospares.com