Okuma — MIV Servo Drives

# MIV03-1-B1



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The **MIV03-1-B1** inverter unit is manufactured by **Okuma** for the MIV Servo Drives series. Serving as the power interface between the controller and a brushless servo actuator, the module rectifies and modulates energy on the common DC link so that precise torque and speed commands can be delivered to production equipment. Integration with Okuma CNC architecture allows coordinated motion across machining axes while helping the connected motor maintain stable speed and torque during continuous operation. The drive is intended for automated machine tools that require closed-loop control and synchronized movement.

Electrical connections are made through the serial and power terminals supplied with the drive. Motion commands and diagnostic data pass through the RS-232 port, which mates with the **53460-0611 Molex plug**, while three-phase mains power is wired to the **1-179276-2 AMP AC connector**. The module connects to the shared DC rail through a **1-178137-2 AMP bus receptacle**, and incremental feedback returns through an encoder cable terminated in a JAE D02-M15SAG-13L9 shell. Designed for a single machining channel, the drive supports **one axis**. Its L-side output stage can supply up to **3.0 kW** of continuous power to the paired brushless motor. Separate connections for mains power, the DC bus, serial communication, and encoder feedback keep each circuit organized within the control rack.

The housing measures **60 mm wide**, allowing multiple drive modules to be arranged in a densely packed control rack. It stands **380 mm high** and extends 325 mm deep, so cabinet layouts must provide adequate vertical space without requiring additional depth. With a mass of **5.7 kg**, the module can be securely supported by the rack while

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retaining enough mass to assist with thermal stability. Dedicated encoder and power connections support a brushless BL motor without requiring external feedback conversion. The narrow housing also helps preserve lateral cabinet space for adjacent axis modules, power supplies, and control equipment.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **232 Connector:** | 53460-0611 (Molex) | **Ac Connector:** | 1-179276-2 (AMP) | **Axis Count:** | 1 |
| **Dc Bus Connector:** | 1-178137-2 (AMP) | **Depth:** | 325 mm | **Encoder Connector:** | D02-M15SAG-13L9 (JAE) |
| **Height:** | 380 mm | **L side Capacity (hp):** | 4 hp | **L side Capacity (kW):** | 3.0 kW |
| **Motor Type:** | BL Motor | **Product Type:** | Okuma Inverter Unit | **Weight:** | 5.7 kg |
| **Width:** | 60 mm | **Last Verified:** | 11/15/2026 6:27 PM | | |

## Contact Us


1620 Old Apex Road, Cary, NC 27513, USA

**Toll Free:** 1-888-551-3082

**International:** 1-919-443-0207

**Fax:** 1-919-867-6204

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