Okuma — MIV Servo Drives

MIV0103-1-B5



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The **MIV0103-1-B5** is an inverter unit produced by **Okuma** for the **MIV Servo Drives** series. This model is installed in the drive cabinets of CNC lathes, mills, and multitasking machines, where it connects the numerical control system to the motor power bus. The unit converts supply energy into **variable-frequency, variable-voltage power** for compatible synchronous or induction motors. This controlled output supports coordinated axis movement, rapid acceleration, and precise feed control during automated machining cycles. Its cabinet-mounted format also allows the power and control connections to remain protected within the machine's electrical enclosure.

The low-power L-side channel has a continuous output capacity of **1.33 hp (1.0 kW)** for a light-duty axis. Regulation and protection for this channel are handled by the **ICB1 control board**, which monitors operating conditions and manages the inverter's switching functions. The board uses **pulse-width modulation** to regulate the voltage and frequency supplied to the connected motor. It also provides overcurrent detection and manages regenerative braking logic when energy returns from a decelerating load. Motor compatibility includes the **BL and PREX motor families**, covering brushless servo applications and higher-torque motor arrangements used in Okuma machinery. This range allows the inverter to serve different axis requirements while retaining a consistent cabinet interface.

The medium-power channel provides up to **4 hp (3.0 kW)** of continuous output for loads that require greater power. This channel can operate **main spindles or large linear axes** used for heavier cutting and rapid machine movement. The available output supports applications in which sustained torque is needed during machining rather

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than only during short acceleration periods. Standardized connectors help maintain orderly power, feedback, and control wiring throughout the drive cabinet. Compatible cooling layouts direct heat away from the power electronics while preserving the installation arrangement used by related drive modules. The inverter can also operate with separate regenerative and control assemblies in the machine's power stack, allowing returned energy and motion commands to be managed by their appropriate modules.

Specifications

Compatible Motor Type:	BL motor, PREX motor	**Inverter control board type:**	ICB1	**L side Capacity (hp):**	1.33 hp
L side Capacity (kW):	1.0 kW	**M side Capacity (hp):**	4 hp	**M side Capacity (kW):**	3.0 kW
Product Type:	Okuma Inverter Unit	**Shelf:**	N7	**Product Type:**	Industrial Equipment
Stock Level:	In-Stock, Ships 3-5 Days	**Packaging:**	Military Grade Foam	**Last Verified:**	11/15/2026 8:27 AM

Contact Us

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