Okuma — MIV Servo Drives

MIV0204-1-B1



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The **MIV0204-1-B1** is an inverter unit produced by Okuma as part of the MIV Servo Drives series. Designed for installation in the drive cabinets of lathes and machining centers, it converts power from a common DC link into independently modulated outputs for two servo axes. By controlling BL or PREX motors, it supplies vector-regulated power that positions slides, spindles, and tool changers with repeatable accuracy in industrial automation.

The unit governs **two axes**, allowing one housing to serve both the left and right channels of a multi-spindle machine. The shared DC link receives **300 VDC**, and the internal inverter control board marked **ICB1** sequences pulse-width modulation for each motor phase. The control electronics draw power from a separate **24 VDC** supply, so the logic can remain active during main bus shutdowns for alarm retention and safe-stop routines. The power section on the left side is rated at **2.67 hp**, enabling rapid acceleration of small servo motors without requiring an oversized cabinet transformer. These electrical ratings are stored in the Standard ROM 1 program set and coordinate with feedback scaling to maintain stable torque loops while limiting thermal stress on the connected motors.

The enclosure measures **100 mm** wide and **380 mm** high, with a depth of 325 mm and a mass of **7.8 kg**. Its compact dimensions permit side-by-side mounting of several units without exceeding the airflow clearances recommended for the MIV platform. The integrated speed monitor produces a proportional output of **1562 rpm/V**, allowing the CNC to verify rotor speed directly from the drive without additional sensors. Mechanical brackets and backplane connectors use a common arrangement across the MIV Servo Drives series, supporting consistent

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installation in machine cabinets. The independent axis channels also allow the connected motors to receive separate motion commands while drawing energy from the same DC bus.

Specifications

Axis Count:	2	**Compatible Motor Type:**	BL motor, PREX motor	**Control Power:**	24 VDC
Control ROM type:	Standard ROM 1	**Dc Bus Voltage:**	300 VDC	**Depth:**	325 mm
Height:	380 mm	**Inverter control board type:**	ICB1	**L side Capacity (hp):**	2.67 hp
L side Capacity (kW):	2.0 kW	**Product Type:**	Okuma Inverter Unit	**Speed Monitor Scale:**	1562 min-1/V
Weight:	7.8 kg	**Width:**	100 mm	**Last Verified:**	11/16/2026 10:20 AM

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