Okuma — MIV Servo Drives

MIV0204-1-B5



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The **MIV0204-1-B5** inverter unit is manufactured by Okuma and supplied under the MIV Servo Drives series. Acting as the power conversion stage in Okuma CNC systems, the unit links the machine controller to the servo axes by converting energy from the shared DC link into a controlled three-phase output. Its role is to deliver precise current and voltage waveforms to each connected motor so that feed drives and spindles follow commanded position, speed, and torque profiles in industrial machining cells.

Designed for dual-channel operation, the module supports **BL motor and PREX motor** families, allowing one unit to drive both standard-axis and high-torque applications. Logic circuitry and gate drivers are energized by a dedicated **24 VDC** supply, separating the control electronics from the main power section. The power stage draws from a shared bus charged to **300 VDC**, which provides energy for acceleration and regenerative braking. The left-side inverter is rated at **2.0 kW** (2.67 hp), while the M-side channel delivers a continuous **4.0 kW** (5.3 hp). By splitting capacity between the two channels, the drive can power a feed axis and a spindle without requiring an oversized cabinet supply. This arrangement also permits the controller to regulate each connected motor independently while both channels draw energy from the common bus.

The housing measures **100 mm** wide, **380 mm** high, and **325 mm** deep, allowing the inverter to mount in narrow control columns while leaving space for airflow around the heat sink. A mass of **7.8 kg** reduces the load placed on swing-out panels while providing a stable mounting arrangement. Heat-producing components are contained within the compact enclosure, and the surrounding cabinet layout must provide adequate ventilation for sustained

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operation. The unit is a first-generation model of the platform and uses an ICB1 control board for compatibility with legacy OSP controllers. Its dual-channel configuration allows the enclosure to serve two different motor duties without requiring separate inverter housings.

Specifications

Compatible Motor Type:	BL motor, PREX motor	**Control Power:**	24 VDC	**Dc Bus Voltage:**	300 VDC
Depth:	325 mm	**Firmware Type:**	ICB-H	**Height:**	380 mm
Inverter control board type:	ICB1	**L side Capacity (hp):**	2.67 hp	**L side Capacity (kW):**	2.0 kW
M-side Rated Cont. Capacity:	4.0 kW (5.3 hp)	**Product Type:**	Okuma Inverter Unit	**Unit Generation:**	First Generation
Weight:	7.8 kg (17.2 lb)	**Width:**	100 mm	**Last Verified:**	11/16/2026 8:12 AM

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