Okuma — MIV Servo Drives

MIV04-1-B1



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The **MIV04-1-B1** inverter unit is produced by Okuma within the MIV Servo Drives series. It interfaces with the CNC controller to modulate power for one motor axis, converting rectified bus energy into variable-frequency output that drives brushless servo and PREX motors used on milling, turning, and grinding centers. By integrating feedback and current regulation, the module delivers the precise motion profiles required for tool positioning and feed control in automated machine tools.

The drive's logic and gate circuitry are energized by a separate **24 VDC** supply, isolating sensitive control electronics from the main power stage so parameter memory and diagnostics remain active even when the mains are disconnected. Its power section operates from a **300 VDC** internal bus that is shared among multiple inverters, allowing regenerative energy to be redistributed within a multi-axis rack. Mains input is routed through an **AMP 1-179276-2** connector, and the keyed plug helps preserve the required connection orientation and phase order. Under continuous duty, the module can deliver **4.0 kW** of mechanical output, a rating that aligns with mid-frame Okuma servomotors for feed or spindle functions. Despite this capacity, the assembly weighs only **5.7 kg**, reducing the load on vertical cabinet rails and making the module easier to handle.

The housing measures **380 mm** in height, **60 mm** in width, and 325 mm in depth, so it occupies one narrow slot in the MIV rack while providing adequate airflow around the heat sink. Its single-axis rating simplifies wiring because only one encoder feedback connection and one motor power connection are required for each unit. Compatibility with **BL motors and PREX motors** allows the drive to support standard high-speed or high-torque windings

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without software reconfiguration. Core signal processing resides on the **ICB1** control board, which plugs into the power chassis to handle pulse-width modulation generation, current loops, and alarm reporting.

Specifications

Ac Connector:	AMP 1-179276-2	**Axes Controlled:**	1	**Bra/brb Connector:**	AMP 1-178137-2
Control Board Type:	ICB1	**Control Power Voltage:**	24 VDC	**Control Rom Type:**	1
Dc Bus Voltage:	300 VDC	**Dca/dcb Connector:**	AMP 1-178137-2	**E2m Connector:**	Molex 53460-0611
External Depth:	325 mm	**External Height:**	380 mm	**External Width:**	60 mm
Motor Type:	BL Motor / PREX motor	**Product Type:**	Okuma Inverter Unit	**Rated Continuous Capacity:**	4.0 kW
Weight:	5.7 kg	**Last Verified:**	11/15/2026 4:19 PM		

Contact Us

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