Okuma — MIV Servo Drives

MIV06DB-1-B1



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The **MIV06DB-1-B1** is an inverter unit produced by Okuma for the MIV Servo Drives series. It converts a regulated DC bus into controlled three-phase power for servo motion in computer numerical control machinery. The module is intended for integration with one BL or PREX motor, delivering the speed and torque required to position an axis or drive a spindle within an automated machining center. This product type forms part of the drive stack in lathes, machining centers, and similar equipment where synchronized multi-axis control is essential.

The inverter derives logic power from a **24 VDC** control supply, while its power stage is fed by a **300 VDC** bus shared by the machine's power distribution system. On the L-side, it can deliver **6.0 kW** of continuous output to a single axis, making it suitable for midrange BL and PREX motors. Control is executed by the **ICB1 inverter board**, and operational parameters are stored in Standard ROM 1. Motor currents are transmitted through terminals U, V, and W. Closed-loop velocity feedback is available through a speed monitor signal scaled at **1562 min?¹/V** for drive diagnostics. The DCA/DCB link uses connector 1-178137-2, whereas AC input is accepted through connector 1-179276-2, providing dedicated connection points for the associated wiring.

The aluminum chassis measures **100 mm** in width, **325 mm** in depth, and **380 mm** in height, allowing multiple units to be mounted side by side within Okuma control cabinets. Torque load information is transmitted through a monitor output that reaches **3 V** at full scale and terminates at the SR connector 53460-0611. Encoder power and shield continuity are handled by the EPG connector D02-M15SAG-13L9, helping keep feedback lines isolated from the power stage. Signals are routed through dedicated channels to reduce interface complexity. The standardized

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motor output phases permit direct connection to factory-wired BL and PREX motor leads.

Specifications

Ac Connector Type:	1-179276-2	**Axis Count:**	1	**Compatible Motor Type:**	BL motor, PREX motor
Control ROM type:	Standard ROM 1	**Control Supply:**	24 VDC	**Dc Bus Supply:**	300 VDC
Dca/dcb Connector Type:	1-178137-2	**Depth:**	325 mm	**Epg Connector Type:**	D02-M15SAG-13L9
Height:	380 mm	**Inverter control board type:**	ICB1	**L side Capacity (hp):**	8 hp
L side Capacity (kW):	6.0 kW	**Motor Output Phases:**	U, V, W	**Product Type:**	Okuma Inverter Unit
Speed Monitor Scale:	1562 min-1/V	**Sr Connector Type:**	53460-0611	**Torque Monitor Full Scale:**	3 V
Width:	100 mm	**Last Verified:**	11/15/2026 8:20 PM		

Contact Us

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