Okuma — MIV Servo Drives

MIV01-1-B1



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The **MIV01-1-B1** is a single-axis inverter unit produced by **Okuma** within the MIV Servo Drives series. The module regulates current to a connected servo or spindle motor and exchanges operating data with the CNC controller, making it a central component in machining-center automation. Integrated power conversion and feedback processing allow the drive to deliver precise torque and speed commands while conserving cabinet space in multi-axis motion systems. Its control functions support coordinated machine movement by responding to commands from the CNC and adjusting motor output in real time.

The drive is energized by a **24 VDC control circuit** that supplies the logic, safety relays, and front-panel electronics. Its main power stage draws energy from a **300 VDC bus** shared with other inverters in the rack. Through its left-side output, the unit can deliver **1.0 kW** to the connected motor. The control software supports **velocity, tool-path, and positioning modes**, allowing the same drive to perform contouring moves or point-to-point indexing. Servo, encoder, and converter connections use dedicated interfaces, providing direct communication without external gateways. A seven-segment LED on the faceplate reports alarms and operating codes, while an MFP1 display card can be installed in the chassis to provide expanded diagnostic information.

The housing measures **325 mm deep**, **380 mm high**, and 60 mm wide, allowing multiple inverter sections to fit within a single cabinet row without special brackets. The enclosure weighs **5.7 kg**, which permits handling without lifting equipment. The drive is compatible with **BL Motor and PREX Motor families**, and it recognizes the feedback scaling required for either motor type. Its narrow housing helps preserve horizontal cabinet space while

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maintaining the depth needed for internal power and control components. Dedicated axis-count logic coordinates current limits with the common DC bus to reduce the risk of overload during simultaneous rapid-feed movements.

Specifications

Axis Count:	1	**Communication Links:**	Servo / Encoder / Converter	**Control Voltage:**	24 VDC
Dc Bus Voltage:	300 VDC	**Depth:**	325 mm	**Display Card:**	MFP1 CARD
Height:	380 mm	**L side Capacity (hp):**	1.33 hp	**L side Capacity (kW):**	1.0 kW
Motor Type:	BL Motor / PREX Motor	**Operation Modes:**	Velocity / Tool Path / Positioning	**Product Type:**	Okuma Inverter Unit
Status Display:	7-Segment LED	**Weight:**	5.7 kg	**Width:**	60 mm
Last Verified:	11/16/2026 4:29 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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