Okuma — MIV Servo Drives

MIV02-1-B1



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The **MIV02-1-B1** is an inverter unit produced by **Okuma** for the MIV Servo Drives series. Within a multi-axis machining center, the unit serves as an individual drive amplifier that links a numerical controller to the motor on one mechanical axis. It converts DC bus energy into phase-controlled output for regulating motor velocity, torque, and position. Assigning a separate inverter to each axis also distributes thermal loads across the control cabinet and allows faults to be isolated to the affected drive.

The drive controls **a single axis**, so a dedicated module can operate each moving slide or rotary table that requires closed-loop servo control. Internal logic and relays receive power from a **24 VDC control supply**, allowing low-voltage wiring to support feedback devices and gate drivers while remaining separate from the high-energy bus. Motor power is supplied through a regulated **300 VDC rail**, which provides the voltage needed for acceleration and sustained motion. The housing measures **60 mm in width** and **380 mm in height**, allowing multiple inverter modules to be installed side by side within the control cabinet. Adequate spacing around the housing supports the airflow required to remove heat from the power electronics during operation.

The cabinet depth is **325 mm**, providing space behind the heat sink for power terminations and fiber-optic command connections while allowing installation in relatively shallow enclosures. The module weighs **5.7 kg**, which limits the mechanical load placed on the cabinet mounting structure. Its left-hand output stage provides **2.0 kW of continuous mechanical power** for the connected motor, supporting axes exposed to moderate cutting forces and repeated acceleration cycles. Standardized input and output connections allow the inverter to exchange commands,

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feedback data, and operating status with the surrounding Okuma control system. Front-panel status indicators provide visual operating information, while the internal parameter set supports adjustment of the connected servo axis.

Specifications

Axis Count:	1 Axis	**Control Power Voltage:**	24 VDC	**Dc Bus Voltage:**	300 VDC
Depth:	325 mm	**Height:**	380 mm	**L side Capacity (hp):**	2.67 hp
L side Capacity (kW):	2.0 kW	**Product Type:**	Okuma Inverter Unit	**Weight:**	5.7 kg
Width:	60 mm	**Last Verified:**	11/15/2026 9:36 AM		

Contact Us

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