Okuma — MIV Servo Drives

MIV08-3-V5



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The **MIV08-3-V5** is an inverter unit produced by Okuma within the MIV Servo Drives series. As a servo drive component, it converts power from a rectified DC bus into a pulse-width-modulated output that regulates motor speed and torque. The unit supports VAC and interior permanent-magnet servo motors used in machine-tool axes and automated handling systems. Its closed-loop control architecture allows the connected motor to follow commands from the CNC controller while responding to changing loads and motion profiles.

The internal control board is the **ICB3** type, which contains the motion processor and communication interfaces used to coordinate operation with the CNC controller. Logic circuits and gate drivers are energized by a separate **24 VDC** supply, isolating the low-level electronics from transients generated by the power stage. The main power section receives energy from a **300 VDC** bus. This constant link voltage allows the inverter to synthesize controlled phase currents for the connected servo motor. Under continuous duty, the module can deliver **7.5 kW** of electrical output, corresponding to a mechanical shaft output of approximately **10 hp**. The control electronics regulate current in response to feedback, helping the motor maintain the commanded speed or torque during acceleration, steady operation, and deceleration.

The housing measures **100 mm** in width, providing a narrow profile for installation beside other power and control modules. It stands **380 mm** high, so the cabinet must provide sufficient vertical clearance for the enclosure and its electrical connections. The unit has a depth of **325 mm**, which must be considered when selecting the cabinet and arranging the mounting panel. Its rectangular enclosure allows the inverter to fit into control cabinets used with

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compatible Okuma machine systems. A mass of **7.3 kg** provides sufficient structural and thermal capacity for the internal power electronics without placing excessive load on the mounting surface. The inverter is intended to connect directly to the compatible motor and control components used in Okuma machining equipment.

Specifications

Control Board Type:	ICB3	**Control Power:**	24 VDC	**Control Rom Type:**	5
Dc Bus Supply:	300 VDC	**Depth:**	325 mm	**Firmware Target:**	ICB-H
Height:	380 mm	**Horsepower:**	10 hp	**Product type:**	Okuma Inverter Unit
Rated Continuous Capacity:	7.5 kW	**Supported Motor:**	VAC Motor / IPM Motor	**Unit Generation:**	First Generation
Weight:	7.3 kg	**Width:**	100 mm	**Last Verified:**	11/15/2026 6:27 PM

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