Okuma — MIV Servo Drives

MIV0505A-1-B1



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The **MIV0505A-1-B1** inverter unit is manufactured by Okuma as part of the MIV Servo Drives series. Designed for CNC and general motion tasks, the device converts rectified power into controllable outputs for paired servo amplifiers, enabling coordinated speed and position control inside machine tools and automated handling cells. By integrating drive electronics and overload protection into a single module, it streamlines panel wiring and supplies the regulated DC bus that synchronized axes require during rapid interpolation and feed-rate changes.

Each MIV0505A-1-B1 channel delivers motion power to **two independent axes**, allowing a compact controller to manage multiple machine movements. Internal logic runs from a dedicated **24 VDC** control rail, so low-voltage faults can be isolated from high-energy bus events. The common DC link is maintained at **300 VDC**, giving the connected amplifiers a fixed energy reservoir for acceleration and regenerative braking. Continuous output is rated at **5.0 kW** per axis; this rating represents the mechanical work the drive can sustain without thermal derating when the machine cuts at its nominal load. Heat produced by switching devices is removed by an **external fan** that pulls air across the heat sink and prevents cabinet temperature increases from affecting neighboring electronics. Despite its dual-axis capacity, the unit weighs only **6.5 kg**, simplifying rail installation and minimizing vibration loads on the enclosure.

The housing stands **380 mm** tall and occupies **100 mm** of frontal width, providing clear dimensions for panel layout. It extends **295 mm** behind the mounting plane, allowing installers to account for the required cabinet depth before positioning adjacent equipment. These proportions permit side-by-side stacking with other MIV modules while

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leaving sufficient clearance for airflow channels and cable bending radii inside shallow electrical cabinets.

Specifications

Axis Count:	2	**Control Supply Voltage:**	24 VDC	**Cooling Method:**	External Fan
Dc Bus Voltage:	300 VDC	**Depth:**	295 mm	**Height:**	380 mm
Product Type:	Okuma Inverter Unit	**Rated Continuous Capacity Per Axis:**	5.0 kW	**Weight:**	6.5 kg
Width:	100 mm	**Last Verified:**	11/16/2026 9:50 AM		

Contact Us

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Shipping Options

Payment Methods

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