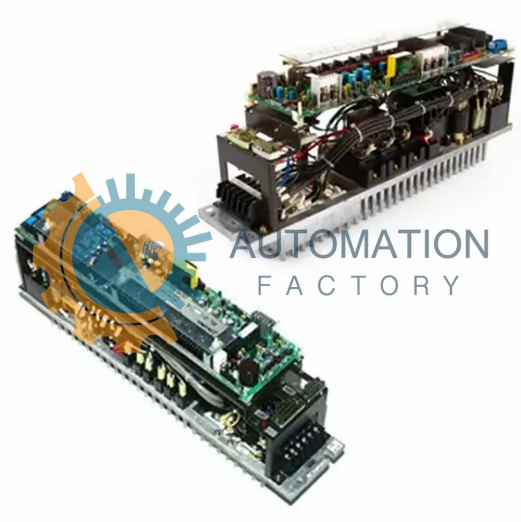
Okuma — BL Servo Drives

BLII-D100A



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The **BLII-D100A** is a single-axis servo drive manufactured by Okuma for the BL Servo Drives series. It functions as the power interface between a CNC controller and a brushless servo motor. The drive converts the machine's three-phase supply into regulated motor current, allowing the connected axis to follow commanded position, velocity, and torque profiles during industrial automation tasks. This closed-loop control supports precise movement in machine tools and other equipment that requires coordinated motion.

The amplifier section can deliver up to **100 A** of motor current through its dedicated **single-axis** SVCII control board. A control check rail supplies **5 V** of logic power, while the main power stage receives a **200 V** three-phase supply through the R/S/T terminals. If instantaneous current rises above **150% of the current limit**, the drive issues an overcurrent alarm and interrupts gating to the U1/V1/W1 outputs. The control circuit receives an isolated single-phase 100 V supply through the AC1/AC2 terminals, separating the command electronics from the high-energy inverter stage. This separation helps protect low-voltage control functions from disturbances originating in the motor power circuit. The single-axis arrangement also keeps control assignments focused on one connected motor.

Continuous operating humidity can reach **75% RH**, while brief exposure up to **95% RH** is permitted without condensation. The chassis withstands vibration levels of **0.5 G**, supporting installation in floor-mounted machining equipment. Motor conductors connect to the drive through the U1/V1/W1 output studs. A differential speed monitor provides **±10 V at ±3750 rpm** feedback, allowing an external indicator or PLC input to monitor actual shaft speed.

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The differential signal helps reject electrical noise that could otherwise affect speed monitoring in an industrial control cabinet.

Specifications

Amplifier Capacity:	100 A	**Axis Count:**	1	**Control Board:**	SVCII Board (1-axis)
Control Check Supply:	5 V	**Control Circuit Phase:**	Single-Phase	**Control Circuit Voltage:**	100 V
Control Power Terminals:	AC1/AC2	**Input Power Terminals:**	R/S/T	**Main Circuit Phase:**	3-Phase
Main Circuit Voltage:	200 V	**Motor Phase Terminals:**	U1/V1/W1	**Operating Humidity Max:**	75% RH
Operating Vibration Max:	0.5 G	**Overcurrent Alarm Level:**	150% Of Limit Current	**Short-term Humidity Max:**	95% RH
Speed Monitor Output:	±10 V / ±3750 rpm	**Last Verified:**	11/14/2026 6:57 PM		

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