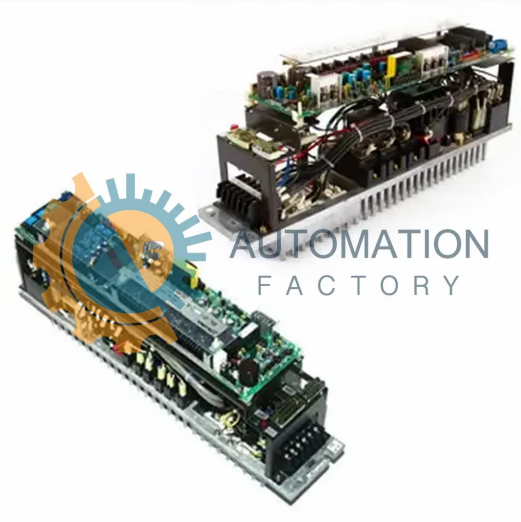
Okuma — BL Servo Drives

BLII-D30A



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The **BLII-D30A** is a servo amplifier produced by Okuma for the BL Servo Drives series. Acting as the interface between a CNC controller and a BL synchronous motor, it regulates current and voltage so a mechanical axis follows commanded position, velocity, and torque profiles. This control supports coordinated motion in automated machining and material-transfer equipment. The amplifier processes controller commands and adjusts motor power in response to feedback from the connected axis.

The drive delivers an output of **30 A** to the motor windings and is designed to control **one mechanical axis**. Power for the gate-drive and signal circuits comes from a **100 V AC single-phase control line**, while the power stage accepts a **200 V AC three-phase input** to energize the motor. Speed feedback uses a **±10 V signal for ±3750 rpm**, allowing motor or slide velocity to be observed through a compatible analog monitoring circuit. The main circuit uses an **IGBT module rated at 30 A and 600 V** to switch current to the motor. Regenerative and surge currents are handled by a **diode module rated at 50 A and 800 V**. The permissible mains range is **180 to 220 V AC**, allowing operation during moderate supply fluctuations.

The cabinet ambient temperature must remain below **55 °C** during operation. A vibration tolerance of 0.5 G supports installation in industrial machinery exposed to normal mechanical movement and nearby equipment vibration. Operating humidity must not exceed 75% RH, which helps prevent moisture from affecting internal power and signal circuits. The control section provides a 5 V supply for compatible encoder electronics. A 10 V torque monitor output permits real-time observation of motor loading, while a separate 10 V velocity monitor uses the

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drive's established speed-feedback scaling. The single-phase control feed separates low-power control functions from the three-phase main circuit used by the motor power stage. These connections allow the amplifier to receive motion commands, process encoder information, and regulate motor current for its assigned axis without requiring a second axis channel.

Specifications

Amplifier Capacity:	30 A	**Axis Count:**	1	**Control Circuit Phase:**	1-Phase
Control Circuit Voltage:	100 V AC	**Control Supply Output:**	5 V	**Diode Module Rating:**	50 A / 800 V
Igbt Module Rating:	30 A / 600 V	**Main Circuit Phase:**	3-Phase	**Main Circuit Voltage:**	200 V AC
Main Voltage Max:	220 V AC	**Main Voltage Min:**	180 V AC	**Operating Humidity Max:**	75 %RH
Torque Monitor Output:	10 V	**Unit Temp Max:**	55 °C	**Velocity Monitor Scale:**	±10 V / ±3750 rpm
Vibration Max:	0.5 G	**Last Verified:**	11/15/2026 4:01 PM		

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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