Okuma — VAC Spindle Drives

VACIII D6



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The **VACIII D6** spindle drive is manufactured by Okuma and belongs to the **VAC Spindle Drives** series. The unit converts incoming mains power into regulated output for machine-tool spindles, matching the speed and torque commands received from the CNC controller. Its design supports high rotational accuracy, stable thermal performance, and straightforward maintenance access, making it suitable for multi-shift production cells where equipment availability is important. By integrating power electronics, feedback processing, and protective functions in a single enclosure, the drive reduces the number of separate components needed to automate spindles in turning centers, milling machines, and grinding systems.

The drive communicates with the CNC through a **fiber-optic link**, which avoids interference from nearby power conductors and supports long cable runs inside large machining centers. Torque regulation is performed with **IGBT switching**, providing fast current control and low switching losses at high spindle frequencies. Line power is accepted up to **242 V AC**, allowing the unit to operate on typical factory power networks ranging from 200 to 240 volts without an autotransformer. Heat produced by the power stage is removed through **fan-driven airflow**, which supports continuous operation when the drive is installed in an enclosed electrical cabinet with suitable ventilation clearance.

For cabinet installation, the inverter accepts **three incoming phases** that connect to spring-clamp terminal blocks secured with **M4 screws**. The mounting feet contain holes with a **10 mm diameter**, allowing the enclosure to be fastened securely to the cabinet structure. Spindle position feedback is powered directly by the drive through a

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stabilized **12 V DC** rail, so the encoder does not require a separate power supply. The dedicated feedback supply reduces auxiliary wiring and keeps encoder power associated with the spindle control circuit. Spring-clamp terminals maintain consistent conductor contact while allowing the mains wiring to be disconnected without disturbing the feedback connection or mounting hardware.

Specifications

Control Interface:	Fiber Optic	**Cooling Method:**	Fan Cooled	**Encoder Supply Voltage:**	12 V DC
Input Phase Count:	3	**Maximum Input Voltage:**	242 V AC	**Mounting Hole Diameter:**	10 mm
Switching Technology:	IGBT	**Terminal Screw Size:**	M4	**Last Verified:**	11/15/2026 7:06 AM

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