Okuma — VAC Spindle Drives

VACII D8



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The **VACII D8** is a spindle drive module produced by Okuma within the VAC Spindle Drives series. It converts incoming electrical power into controlled AC output for high-speed machine-tool spindles and exchanges real-time status data with the numerical control. Installed inside the machine control cabinet, the chassis integrates IGBT inverters, DC-link capacitors, and optical transceivers. These components regulate spindle torque and speed while milling, turning, or grinding operations run to programmed tolerances. The module also coordinates acceleration and deceleration as the numerical control changes spindle commands during a machining cycle.

Protection of the power stage begins with an F1 semiconductor fuse rated at **5 A**, limiting fault current before downstream components are damaged. The converter uses **three input phases**, allowing connection to a standard symmetrical power source without a transformer. A dedicated blower circuit receives **200 V AC**, ensuring that the spindle motor fan remains active during low-speed machining or dwell periods. Rotor position is sensed through a **resolver**, which supplies shaft-angle data that the control loop uses for vector modulation. Command and status frames move over **optical fiber**, providing high-bandwidth communication that resists electrical noise inside the control cabinet. This communication link carries operating commands and drive status without exposing low-level signals to interference from the power stage.

Motor leads connect to an **M5 power terminal**, providing secure contact for typical 8 AWG cables. The integrated **speed monitor** outputs a scaled analog signal that spans **10 V** from zero to maximum rpm. This signal allows operating speed to be checked with a compatible meter or connected to cabinet monitoring equipment. The sensor

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winding is excited every **128 µs**, supporting frequent position updates during rapid acceleration and deceleration. Secure power connections help prevent looseness caused by vibration, while the analog monitor provides a direct reference for evaluating spindle behavior. The short excitation period allows the control loop to respond quickly when cutting loads or commanded speeds change.

Specifications

F1 Fuse Current Rating:	5 A	**Input Phases:**	3	**Motor Fan Supply Voltage:**	200 V AC
Motor Feedback Type:	Resolver	**Motor Power Terminal Screw:**	M5	**Nc Communication Medium:**	Optical Fiber
Resolver Excitation Period:	128 µs	**Speed Monitor Full-scale Magnitude:**	10 V	**Last Verified:**	11/16/2026 5:43 AM

Contact Us

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