Okuma — VAC Spindle Drives

VACIII D11



In-Stock, Ships 1-2 Days

- ☑ Get a Quote in 5 minutes
- ☑ Parts ship in as little as 24 hours
- ☑ Up to half the cost of the manufacturer

Secure Online Checkout

Free Ground Shipping

One Year Warranty

The **VACIII D11** is an AC spindle drive manufactured by Okuma within the VAC Spindle Drives series. It supplies adjustable three-phase power to machine-tool spindles, allowing the CNC controller to vary rotational speed without mechanical gear changes. By converting cabinet line voltage into a controlled output waveform, the drive enables rapid acceleration, constant surface speed machining, and precise deceleration between programmed operations. It also integrates diagnostic signaling and fault monitoring to assist with identifying overloads or wiring issues.

Its power section is designed for a nominal input of **200 V AC, three-phase power**, but the circuitry tolerates supply voltage excursions down to **180 V AC** and up to **220 V AC** without loss of regulation. Frequency compatibility ranges from **49 Hz** to **62 Hz**, allowing operation on industrial power systems that vary from nominal 50 or 60 Hz service. The inverter section provides **11 kW** of continuous spindle power, which supports medium-sized machining centers equipped with high-speed ceramic-bearing motors. Protection devices include a 5 A alarm fuse that isolates the control logic and a 0.3 A gate fuse that protects the IGBT drive signals; each fuse operates independently to assist with fault isolation.

Operating limits help maintain thermal and mechanical stability when the drive is installed in a sealed enclosure. Cabinet air may reach **45 °C**, while internal heat-sink sensors allow the module to operate at temperatures up to 55 °C before derating occurs. The electronics withstand continuous vibration levels of **0.5 g**, supporting installation on moving carriages or near equipment that generates substantial vibration. Ambient humidity may reach **75% RH** during normal operation, and the conformally coated circuitry can tolerate brief exposure to 95% relative humidity.

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.

The drive may be stored at temperatures ranging from -20 °C to 60 °C without compromising the required insulation clearances.

Specifications

Alarm Fuse Rating:	5 A	**Cabinet Temp Max:**	45°C	**Drive Type:**	AC Spindle Drive
Gate Fuse Rating:	0.3 A	**Input Frequency Max:**	62 Hz	**Input Frequency Min:**	49 Hz
Input Voltage:	200 V AC (3-Phase)	**Input Voltage Max:**	220 V AC	**Input Voltage Min:**	180 V AC
Normal Humidity Max:	75%RH	**Rated Capacity:**	11 kW	**Short-term Humidity Max:**	95%RH
Storage Temp Max:	60°C	**Storage Temp Min:**	-20°C	**Unit Temp Max:**	55°C
Vibration Max:	0.5G	**Last Verified:**	11/16/2026 9:20 AM		

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

Shipping Options

DHL, FedEx, UPS, Freight

Payment Methods

American Express, MasterCard, VISA, Wire Transfer

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.