Okuma — VAC Spindle Drives

VACII D22



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The **VACII D22** is a spindle drive module developed by Okuma for the VAC Spindle Drives series. It forms the power interface between an Okuma CNC controller and a high-speed spindle motor. The module converts command words from the control into precise torque, indexing, and braking actions required for metal-cutting applications.

The drive flags abnormal conditions with the alarm prefix **AL**, which appears before any numerical error code on the front panel. During lathe C-axis positioning, it transmits the dedicated **06** identifier, while an idle but energized spindle is represented by the standstill reference **02**. Rotation commands are separated into a clockwise token of **03** and a counterclockwise token of **04**; these fixed values let the CNC logic confirm that the direction of motion matches the programmed command. Separate high-winding and low-winding selections are available through the single-letter "H" and "L" codes, allowing the control to switch motor windings for different speed ranges. Operator wiring reaches the main logic through the XB-EX(CN1) I/O connector. Dedicated feedback ports accept resolver, magnetic encoder, and optical scale signals through XB-RES(CN3), XB-EPG(CN13), and XB-OPT(CNOFS), respectively.

Two selectable readout formats give the unit **two display modes**, allowing users to switch between operating data and diagnostic values without opening the cabinet. Real-time status appears on a **seven-segment LED** display beside a **green status LED** that indicates normal operation. An independent charge indicator illuminates in **orange** while the DC bus remains energized, indicating that the unit must discharge before service. The front-panel indicators provide immediate information about operating state, stored alarms, and remaining bus voltage. Multiple

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feedback connections allow the drive to receive position and speed data from different sensor types used across compatible spindle configurations.

Specifications

Alarm Prefix:	AL	**C-axis Code:**	06	**Charge Led Color:**	Orange
Clockwise Code:	03	**Counterclockwise Code:**	04	**Display Modes:**	2
High-wind Code:	H	**I/o Connector:**	XB-EX(CN1)	**Low-wind Code:**	L
Mag Encoder Connector:	XB-EPG(CN13)	**Optical Connector:**	XB-OPT(CNOFS)	**Resolver Connector:**	XB-RES(CN3)
Standstill Code:	02	**Status Indicator:**	Seven-Segment LED	**Status Led Color:**	Green
Last Verified:	11/17/2026 12:58 PM				

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