Okuma — E4809 CNC Boards

E4809-045-084G



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The **E4809-045-084G** is a printed circuit assembly manufactured by Okuma for the E4809 CNC Boards series. Positioned in the electrical rack of an Okuma machining center, the board links the numerical control CPU with the power section that energizes the spindle motor, allowing rapid acceleration, controlled deceleration, and precise speed control during cutting operations. Its circuitry processes tachometer feedback and generates gating signals for the inverter, thereby maintaining the spindle stability required for consistent surface finishes and tool life.

The board is identified as a **VAC-Board-B**, a designation that places it in the power-converter backplane rather than in low-level I/O slots. Its dedicated function is **spindle drive control**, so the circuitry and component layout are optimized for high-frequency current commands rather than axis interpolation. The card measures **49.0 cm** in length, **31.0 cm** in width, and **5.0 cm** in height. This slim profile allows it to fit within a confined rack while providing sufficient trace separation for high-voltage signals. These dimensions also affect enclosure airflow clearances and the required reach of connected ribbon cables and bus bars.

For field adjustment and diagnostics, six DIP switches labeled **SW1-SW6** select encoder polarity, torque limit ranges, and soft-start parameters. Three trim potentiometers marked **VR1-VR3** allow fine-tuning of current gain, velocity-loop offset, and overvoltage shutdown levels without reprogramming the CNC. A bank of **13 numbered status LEDs** provides immediate fault-code visibility, while a separate group of operation indicators labeled **M1-M3** displays the ready, run, and alarm states of the spindle drive. The switches, potentiometers, and indicators are positioned along the board edge, making them accessible while the assembly remains installed in its rack. This

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arrangement permits configuration checks and fault isolation without removing the board from the machine.

Specifications

Board Type:	VAC-Board-B	**Control Role:**	Spindle Drive Control	**Dip Switches:**	SW1-SW6
Height:	5.0 cm	**Length:**	49.0 cm	**Numbered Status Leds:**	13
Operation Status Leds:	M1-M3	**Trim Pots:**	VR1-VR3	**Width:**	31.0 cm
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