Bosch Rexroth Indramat — VT 3000 Analog Amplifiers

VT 3002-2-2X-32D



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The **VT 3002-2-2X-32D** is an analog amplifier board engineered by Bosch Rexroth Indramat for the VT 3000 Analog Amplifiers series. Installed inside control racks, the board conditions low-level command signals so they can drive proportional coils or other analog actuators used in industrial automation. By providing standardized interface points for upstream PLC hardware and downstream hydraulic or electric devices, the card simplifies cabinet wiring and maintains consistent control-loop accuracy across distributed industrial applications.

Mechanical and electrical integration is governed by its **double Euro-format outline**, which establishes the overall height and depth for insertion into 19-inch subracks. Field wiring connects to screw clamps that accept conductors with cross-sectional areas of up to **4 mm²**, supporting low-resistance connections for sensor or valve lines. The power plane can carry a continuous load of **4 A**, permitting the operation of multiple low-current channels without external relays. The board can be installed on a hat rail in a **vertical-only orientation**, which prevents obstruction of the heat sink and supports proper airflow. The chassis includes **two mounting holes** that provide additional restraint against vibration after installation.

Signal assignments within the backplane follow an **even-numbered pattern**, making schematic tracing easier and reducing interference between adjacent tracks. The board connects to the rack through a **32-pin Form D DIN 41612 connector** that mates directly with standard Eurocard motherboards used in automation enclosures. Control loops must remain within a maximum supply of **48 VAC/DC** to protect the onboard analog circuitry and neighboring modules from excessive voltage. Field wiring uses **plug-in screw terminals**, allowing the module to

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be removed while the cables remain secured to the detachable plugs. This terminal arrangement also reduces the need to disconnect individual conductors when the board is removed from its rack position.

Specifications

Card Format:	Double Euro-format	**Connection Cross-section Max:**	4 mm²	**Current Carrying Capacity:**	4 A
Hat Rail Mounting:	Vertical only	**Mounting Hole Count:**	2	**Pin Numbering:**	Even-numbered
Socket Type:	32-pin, Form D, DIN 41612	**Terminal Voltage Max:**	48 VAC/DC	**Termination Type:**	Plug-in screw terminals
Last Verified:	11/16/2026 9:12 AM				

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