Bosch Rexroth Indramat — VT 3000 Analog Amplifiers

VT 3000-3X-ES-E61-A204-U169



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The **VT 3000-3X-ES-E61-A204-U169** is an analog amplifier card built by Bosch Rexroth Indramat for the VT 3000 Analog Amplifiers series. Installed in hydraulic drive cabinets, the card converts low-level command voltages from a PLC into proportional current for pilot-operated solenoids, letting machine controllers regulate valve position and flow without manual trimming. Its Eurocard footprint fits into 19-inch racks alongside other motion modules, providing an accessible arrangement for installation and maintenance.

The module runs from a nominal supply of **24 VDC (+60%/-5%)**. Operation ceases below the **22 VDC** lower threshold, while protective circuitry tolerates surges up to **39 VDC**. Under steady load, the electronics draw **less than 1 A**, reducing the demand on power rails that serve multiple axes. Incoming command signals arrive on channels 1 through 4 at ±9 V and on a fifth channel at ±6 V. A differential input stage with an impedance of **100 k?** prevents these references from being affected by excessive loading. An internal bias current of 20 mA with a tolerance of ±25% centers the output stage around zero. The solenoid circuit supports a 19.5 ? coil and is routed through a 32-pin DIN 41612 Form D connector mounted on the card edge. The board uses a standard 100 × 160 mm Eurocard format and has a mass of 0.13 kg, making it easy to handle during rack installation.

A carrier pulse of **170 Hz** with a tolerance of ±10% modulates the output to a maximum solenoid current of **800 mA**, producing smooth hydraulic actuation without audible chatter. Overall apparent power consumption is **less than 50 VA**, which helps limit heat generation in densely populated enclosures. The board uses a **2.5 A slow-blow fuse** on the supply feed for branch protection. The fuse coordinates with the supply limits to protect circuit traces

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during an overcurrent condition, while the card shares backplane power with other amplifier stages.

Specifications

Biasing Current:	20 mA (±25%)	**Card Size:**	100 x 160 mm	**Command Input 1 To 4:**	±9 V
Command Input 5:	±6 V	**Connection Type:**	32-pin strip, DIN 41612 Form D	**Current Consumption:**	<1 A
Differential Input Impedance:	100 k?	**Fuse Rating:**	2.5 A slow	**Lower Voltage Limit:**	22 VDC
Operating Voltage:	24 VDC (+60%/-5%)	**Power Consumption:**	<50 VA	**Pulse Frequency:**	170 Hz (±10%)
Solenoid Current:	800 mA	**Solenoid Resistance:**	19.5 ?	**Upper Voltage Limit:**	39 VDC
Weight:	0.13 kg	**Last Verified:**	11/17/2026 5:21 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

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