Bosch Rexroth Indramat — VT 3000 Analog Amplifiers

VT 3000-3X-ES-E61-A204-U177



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The **VT 3000-3X-ES-E61-A204-U177** is an analog amplifier card produced by Bosch Rexroth Indramat for the VT 3000 Analog Amplifiers series. Installed in hydraulic power units, it converts low-level command voltages into a pulse-modulated coil current that positions proportional valves. By occupying a single Eurocard slot, the module gives machine builders a compact way to adjust pressure or flow with electronic precision while retaining the reliability expected in industrial automation environments. The card interfaces with standard control racks and is often used in presses, die-casting cells, and mobile test stands that need repeatable motion control.

It mates with a **32-pin Eurocard** connector and operates from a regulated **24 VDC ±10%** supply, drawing up to **30 W** during simultaneous valve actuation and relay switching. The main control channel accepts a bipolar **±9 V** signal; an auxiliary ±6 V input and a differential 10 V port allow summing or override functions. Four trim potentiometers permit field adjustment, and four front-panel LEDs show power, enable, error, and limit states. Six internal relays handle mode selection and external interlocks. The power stage can deliver an instantaneous **800 mA** to the solenoid and never falls below a 20 mA bias, so valve spool overlap is crossed smoothly.

The output path is safeguarded by a **2.5 A** fuse housed in a standard 5 mm × 20 mm carrier. To reach rated dynamics, the connected solenoid must present no more than **19.5 ?** of coil resistance, and current is applied through a **PWM** generator that keeps transistor temperatures within limits. The signal conditioner demands at least **500 ?** of source impedance to preserve gain accuracy when long cables are used. This combination of protection, modulation method, and input constraint helps keep the valve response linear across the full stroke.

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Specifications

Additional Command Input:	±6 V	**Card Format:**	32-pin Eurocard	**Contact Relay Count:**	6
Control Input Voltage:	±9 V	**Differential Input:**	10 V	**Fuse Rating:**	2.5 A
Fuse Size:	5 mm x 20 mm	**Input Potentiometer Count:**	4	**Led Indicator Count:**	4
Max Coil Resistance:	19.5 ?	**Maximum Output Current:**	800 mA	**Minimum Bias Current:**	20 mA
Minimum Input Load:	500 ?	**Output Modulation:**	PWM	**Power Consumption:**	30 W
Power Supply Voltage:	24 VDC ±10%	**Last Verified:**	11/20/2026 4:44 AM		

Contact Us

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Shipping Options

Payment Methods

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