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Specifications AT6200/AT6400

	Parameter	Value
Performance		
	Position range	±2,147,483,648 steps
	Velocity range	1 to 1,600,000 steps/sec
	Acceleration range	1 to 24,999,975 steps/sec^2
	Motion Algorithm Update Rate	2 ms
Input Power		
	AT6200 and AT6400 PC Card	5VDC @ 1.8A max from the PC-AT bus
	120V Auxiliary Board (AC or DC input)	90-132VAC, 50/60Hz, 1.5A @ 120VAC, single-phase; or power from an external power source of 5VDC, ±10%
	240V Auxiliary Board (AC or DC input)	90-264VAC, 50/60Hz, 0.75A @ 240VAC, single-phase; or power from an external power source of 5VDC, ±10%
	DC Auxiliary Board	+5VDC (±5%) @ 1.6A
Inputs	(See also I/O pinouts & circuit drawings)	
	Encoder	Differential comparator accepts two phase quadrature incremental encoders with differential (recommended) or single ended outputs (+5VDC TTL compatible*). Maximum frequency = 1.6 MHz, post-quadrature.
	24 Programmable	HCMOS* compatible with internal 6.8 KΩ pull-up (connect IN-P to +5–24V to source current or connect IN-P to GND to sink current). Voltage range = 0–24V. 50-pin plug is compatible with OPTO-22™ signal conditioning equipment.
	Trigger Inputs	AT6200 has two and AT6400 has four high-speed inputs for encoder capture and registration. HCMOS* compatible with internal 6.8 KΩ pull-up to AUX-P (wired to +5V at factory). Voltage range = 0V-24V.
	Analog (Joystick)	Voltage range 0-2.5VDC, 8-bit A/D converter.
	Home, Pos/Neg Limits, Pulse Cut Off	HCMOS* compatible; internally 6.8KΩ pull-ups to AUX-P (wired to +5V at factory). Voltage Range = 0V-24V.
	Joystick Inputs (Axes and Velocity	HCMOS and TTL compatible; internal 6.8 KΩ pull-up to +5V; voltage range is 0-24V. Select, Release, Trigger and Auxiliary)
	Drive Fault, In Position	HCMOS* compatible; internal 1.0 KΩ pull-up to 5V; voltage range = 0V–5V.
Outputs		
	Home, Pos/Neg Limits, Pulse Cut Off	HCMOS* compatible; internally 6.8KΩ pull-ups to AUX-P (wired to +5V at factory). Voltage Range = 0V-24V.
	24 Programmable	Open collector output with 4.7KΩ pull-ups. Can be pulled up by connecting OUT-P to +5V on the auxiliary board, or to user-supplied voltage of up to 24V. Max voltage in OFF state (not sinking current) = 24V, max current in ON state (sinking) = 30mA. 50-pin plug is compatible with OPTO-22™ signal conditioning.
	Step, Direction, Shutdown	Differential line driver output. Signal high > 3.5VDC @ +30 mA, signal low < 1.0VDC @ -30 mA. +output for each differential drive is active high; output for each driver is active low. Step pulse width is 0.3µs to 20 µs.
	Board Monitor Alarm (BMA)	Detects unrecoverable faults in hardware and software. When BMA detects fault, status light on AT6n00 card turns off and status light on auxiliary board turns red.
Environmental		
	Operating temperature	32° to 122°F (0° to 50°C)
	Storage temperature	-22° to 185°F (-30° to 85°C)
	Humidity	0% to 95% noncondensing
Physical		
	120 VAC and 240 VAC AUX Boards	
	• Height	10.10 in (256.54 mm)
	• Width	5.50 in (139.70 mm)
	• Depth	2.00 in (50.80 mm)
	DC Input AUX Board	
	• Height	11.60 in (294.64 mm)
	• Width	5.50 in (139.70 mm)
	• Depth	1.50 in (38.1 mm)

* HCMOS-compatible voltage levels: low ≤ 1.67V, high ≥ 3.3V
TTL-compatible voltage levels: low ≤ 0.4V; high ≥ 2.4V

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