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Data Sheet

August 15, 2026

ELMO MOTION CONTROL

Elmo SBA-5 Miniature PWM Servo Amplifier

The Elmo Motion Control SBA-5/200H is a miniature, high-performance, full-wave, 3-phase servo amplifier designed for demanding motion control applications. It utilizes PWM (Pulse Width Modulation) technology for efficient and precise motor control. This compact amplifier delivers significant power in a small form factor, making it ideal for integration into space-constrained systems.



MODEL

**Elmo Motion
Control SBA-
5/200H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SBA-5/200H

LISTING

<https://aumictechlabs.com/products/sba-5-200h-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

Elmo Motion Control SBA-5/200H Miniature PWM, Full Wave, 3-Phase Servo Amplifier: Technical Overview The Elmo Motion Control SBA-5/200H is a compact, high-efficiency, 3-phase servo amplifier designed for demanding motion control applications. Utilizing Pulse Width Modulation (PWM) technology, this amplifier delivers precise motor control in a small form factor, making it suitable for integration into space-constrained systems. It is engineered for brushless servo motors up to 0.7kW and features a dual PCB construction mounted on a heatsink plate for thermal management. The SBA-5/200H offers operational flexibility with various feedback sensor options and multiple modes of operation, including velocity and current control. Technical Specifications General Features: Technology: Miniature PWM, Full Wave, 3-Phase Servo Amplifier Motor Power

Range: Designed for brushless servo motors up to 0.7kW Construction: Two PCBs mounted on a heatsink plate * Lower PCB: Power switching transistors, motor terminals, switch mode power supply, protection logic * Upper PCB: Control logic, commutation logic, control stage terminals, adjusting trimmers, indication LEDs Efficiency: Up to 97% at rated current Linearity: Better than 1% Zero Deadband: Yes Internal DC to DC Converter: Allows operation from a single supply Status Indication: LED diagnostics Availability Note: Discontinued by manufacturer, but may be available through secondary markets Electrical Specifications: Switching Frequency: 20 KHz (40 KHz or 60 KHz available on request) Current Loop Response: 2 KHz (minimum) Output Voltage: Up to 90% of DC input voltage Output Voltages for External Use: +5V, +13V DC Supply Voltage Range: Defined within the technical specifications (refer to operating manual for specific range) Current Ripple: Recommended limits of 10%-20% of rated current. Formula for calculation: $I_r = (0.5 * V_s) / (f * L)$ where I_r is current ripple, V_s is DC supply voltage, f is frequency in KHz, and L is load inductance in mH. Drift: 10 μ V/°C (referred to input) Feedback and Control: Operation Modes: Velocity mode, Current mode Feedback Sensor Options: * Resolver: 10, 12, 14, and 16-bit resolution (user-selectable). Maximum tracking rate of 1040 rps (at 10-bit resolution) * Optical Encoder: Maximum input frequency 800 KHz, speed regulation 500:1, encoder frequency x1 or x4, output voltage range 2-30V. Output supplies: 5V/50mA, 12V/20mA * Hall Effect: Accepts brush tachogenerator for velocity feedback and Hall effect sensors for commutation (Hall effect version) * B and E versions: Require Hall effect sensors for commutation Commutation Logic: Built-in Adjustments: Adjustable compensation, input balance (offset) External Control Inputs: * Remote inhibit * External current limit inputs Interfaces: Motor Current Monitor: Yes Inhibit/Fault Indication: Logic level Protection Features: Latch/self-restart modes Physical and Environmental: Operating Temperature: 0°C to 50°C Storage Temperature: -10°C to +70°C Weight: 1.01 lbs Compatibility: Motor Type: Designed for brushless servo motors Why Choose Aumictech for Elmo Motion Control SBA-5/200H? At Aumictech, we specialize in supplying high-end motion control equipment. Whether you need precise motor control, efficient power management, or seamless integration into complex systems, our team ensures the Elmo Motion Control SBA-5/200H delivers maximum performance for your application.

SBA5200H Characteristics / Specifications

PARAMETER	VALUE
Model	SBA-5/200H
Also Known As	SBA-5
Instrument Type	Miniature PWM brush servo amplifier
Current Class	5 A continuous class (SBA-5)
Bus Voltage	200 V class on /200H
Topology	PWM
Motor Type	brushed DC
Package	compact PCB / heatsink
Manufacturer	Elmo Motion Control
Literature	Elmo SBA-5 / SBA-5/200H listings
Form Factor	miniature servo amplifier
Application Class	compact brushed servo axes
System Role	PWM current amplifier
Use Case	small DC servo motors
Documentation Type	OEM SBA-5 listing
Enable	enable input
Current Limit	adjustable current limit class
Feedback Class	tach/encoder class
Brand Lineage	Elmo Motion Control
Year Class	SBA-5 family
Cooling Class	heatsink
Supply Class	DC bus 200 V overlay
Connector Class	power, motor, and signal headers
Protection Class	current limit / disable
Family	Elmo SBA miniature PWM

SBA5200H Specifications

PARAMETER	VALUE
Applications	Compact brushed-DC servo axes on a 200 V class bus.
Key Features	Miniature PWM brush servo amp
Technical Specifications	Model: SBA-5/200H

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Year Class	SBA-5 family
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Supply Class	DC bus 200 V overlay
Connector Class	power, motor, and signal headers
Protection Class	current limit / disable
Family	Elmo SBA miniature PWM

Notes

From Elmo SBA-5/200H listings (SBA-5 5 A class, 200 V /200H overlay, PWM brush). Peak current, switching kHz, and exact bus range are on the SBA-5 datasheet; do not invent them.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.