

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AEROTECH

Aerotech BAS20-160 SineDrive Servo Amplifier

The Aerotech BAS20-160 is a SineDrive servo amplifier designed for high-performance motion control applications. It provides precise and efficient control of brushless servo motors, ensuring smooth and accurate motion. Ideal for demanding industrial automation and robotics applications.



MODEL

Aerotech BAS20-160

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

BAS20-160

LISTING

<https://aumictechlabs.com/products/bas20-160-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Aerotech BAS20-160 SineDrive Servo Amplifier is a single-axis servo drive engineered for precision motion control in industrial automation, power generation, petrochemical, and general automation systems. It delivers sinusoidal current commutation to brushless and brush motors with selectable configuration, achieving 97% efficiency across its operating range. The amplifier accepts high-resolution encoder feedback and Hall effect signals for velocity and torque control, supporting output frequencies from DC to 400 Hz and motor speeds to 3000 RPM. Technical Specifications Input Power: 100-115 VAC or 56-230 VAC, 50/60 Hz Bus Voltage: ± 160 VDC (3-Phase, 160 VDC standard) Output Voltage: 80-320 VAC Frequency Range: 0-400 Hz Peak Motor Current: 20 A Continuous Motor Current: 10 A Peak Power Output: 5440 W Continuous Power Output: 2720 W Efficiency: 97% Maximum Speed: 3000 RPM Housing: Aluminum with advanced thermal management Key Features Motor type selection via jumper (brushless or brush

configuration) Velocity and torque control modes with programmable low-pass filter (cutoff via PRM:10) Self-commutation using Hall effect feedback signals Encoder support with 5 VDC, 250 mA power supply for encoders and Hall devices Smooth sinusoidal current command output Ferrite toroid requirement for motor leads (10 turns for 16 AWG, 7 turns for 14 AWG wire) Typical Applications Industrial automation, robotics, power generation turbines and generators, petrochemical pumps and valves, general industrial motion control. Compatibility & Integration Operated through BA-SineDrive and BAS software platforms. Accepts three-phase motor connections (A, B, C) and direct AC line power input. Rated for harsh operating environments with sustained thermal stability.

BAS20160 Characteristics / Specifications

PARAMETER	VALUE
Model	BAS20-160
Instrument Type	sine commutation PWM servo amplifier
Peak Output Current	20 A peak
Continuous Output Current	10 A peak
Peak Power Output	5440 W
Continuous Power Output	2720 W
Output Voltage Range	40 to 320 VDC depending on AC input
Pwm Switching Frequency	20 kHz
Power Amplifier Bandwidth	2 kHz
Minimum Load Inductance	0.8 mH at 160 VDC (1 mH at 320 VDC)
Operating Temperature	0 to 50 C
Storage Temperature	minus 30 to 85 C
Shunt Dissipation	40 W optional
Ac Input	28 to 230 VAC 50-60 Hz single phase
Commutation	sinusoidal from encoder
Control Interface	RS-232 digital parameters
Bus Voltage Suffix 1	160 VDC class
Recommended Fuse	20 A slow blow for BAS20
Modes	torque (current) and velocity
Manufacturer	Aerotech
Related Family	BAS10/20/30/50/75/100
Mass Class Bas10 20	1.1 kg (2.5 lb) on the BAS10/20/30 grouping
Bandwidth	2 kHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 30 to 85 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Shunt Dissipation	40 W optional
Ac Input	28 to 230 VAC 50-60 Hz single phase
Commutation	sinusoidal from encoder
Control Interface	RS-232 digital parameters
Bus Voltage Suffix 1	160 VDC class
Recommended Fuse	20 A slow blow for BAS20
Modes	torque (current) and velocity
Manufacturer	Aerotech
Related Family	BAS10/20/30/50/75/100
Mass Class Bas10 20	1.1 kg (2.5 lb) on the BAS10/20/30 grouping Notes From Aerotech BAS SineDrive hardware manual Table 5-4 BAS20 column and AC-input/commutation notes. Confirm whether the -160 build uses the separate 80 VAC auxiliary input board described for BAS 10/20/30-80 options.

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	
Specifications	
PARAMETER	VALUE
Model	BAS20-160
Instrument Type	sine commutation PWM servo amplifier
Peak Output Current	20 A peak
Continuous Output Current	10 A peak
Peak Power Output	5440 W
Continuous Power Output	2720 W
Output Voltage Range	40 to 320 VDC depending on AC input
Pwm Switching Frequency	20 kHz
Power Amplifier Bandwidth	2 kHz
Minimum Load Inductance	0.8 mH at 160 VDC (1 mH at 320 VDC)
Operating Temperature	0 to 50 C
Storage Temperature	minus 30 to 85 C
Shunt Dissipation	40 W optional
Ac Input	28 to 230 VAC 50-60 Hz single phase
Commutation	sinusoidal from encoder
Control Interface	RS-232 digital parameters
Bus Voltage Suffix 160	160 VDC class
Recommended Fuse	20 A slow blow for BAS20
Modes	torque (current) and velocity
Manufacturer	Aerotech
Related Family	BAS10/20/30/50/75/100
Mass Class Bas10 20 30	1.1 kg (2.5 lb) on the BAS10/20/30 grouping
Notes	
From Aerotech BAS SineDrive hardware manual Table 5-4 BAS20 column and AC-input/commutation notes. Confirm whether the -160 build uses the separate 80 VAC auxiliary input board described for BAS 10/20/30-80 options.	

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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