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Data Sheet

August 15, 2026

ADVANCED MOTION CONTROLS

Advanced Motion Controls BE15A8J-H Brushless PWM Servo Amplifier

Advanced Motion Controls Motion Controllers. Frequency Range: 31 kHz, Voltage / Current Range: 20–80 VDC supply; 15 A peak / 7.5 A continuous output; ± 10 V command input; ± 60 VDC feedback.



MODEL

Advanced Motion Controls BE15A8J-H

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

BE15A8J-H

LISTING

<https://aumictechlabs.com/products/be15a8j-h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advanced Motion Controls BE15A8J-H is a brushless PWM servo amplifier engineered for precision motion control in robotics, automation, and applications. Operating from 20–80 VDC, this compact amplifier delivers 15 A peak and 7.5 A continuous output current with a maximum continuous power rating of 570 W, making it suitable for demanding three-phase brushless motor systems as well as single-phase brushed, voice coil, and inductive loads. Technical Specifications
Supply voltage: 20–80 VDC Peak output current: 15 A Continuous output current: 7.5 A Maximum continuous output power: 570 W Maximum power dissipation: 30 W (at continuous current) DC bus over-voltage limit: 88 VDC DC bus under-voltage limit: 9 VDC Switching frequency: 31 kHz Internal bus capacitance: 94 μ F Minimum load inductance (line-to-line): 100 μ H Auxiliary outputs:

+6 VDC (30 mA) Dimensions: 63.5 × 50.8 × 22.9 mm Weight: 95.8 g

Key Features

Command inputs: ±10 V analog, PWM and direction signals

Feedback support: Hall sensors, tachometer (±60 VDC)

Trapezoidal commutation for three-phase brushless motors

Multiple operation modes: current, Hall velocity, duty cycle open-loop, tachometer velocity

Adjustable parameters: loop gain, current limit, input gain, offset via 14-turn potentiometers

On-board test potentiometer for signal verification

Comprehensive protection: invalid commutation feedback, over-current, over-temperature, over-voltage, under-voltage, phase-phase and phase-ground short circuit detection

Typical Applications

Motion control systems requiring precision speed or torque regulation, automated machinery, robotic actuators, and systems demanding reliable brushless motor operation across variable load conditions.

Compatibility & Integration

P1 signal connector: 16-pin, 2.54 mm spaced friction-lock header.

P2 power connector: 5-port, 5.08 mm spaced screw terminal.

Certifications: UL, cUL, CE Class A (LVD and EMC), RoHS compliant.

BE15A8JH Characteristics / Specifications

PARAMETER	VALUE
Model	BE15A8J-H
Instrument Type	brushless PWM servo amplifier
Dc Supply Voltage	20 to 80 V
Peak Current	plus or minus 15 A for 2 s maximum
Continuous Current	plus or minus 7.5 A
Peak Voltage Class	80 V
Minimum Load Inductance	200 uH
Switching Frequency	33 kHz plus or minus 15 percent
Heatsink Temperature	0 to 65 C, disables if greater than 65 C
Power Dissipation Continuous	30 W
Overvoltage Shutdown	86 V self reset
Bandwidth	2.5 kHz load dependent
Size	5.09 × 2.98 × 0.99 in (129.3 × 75.8 × 25.1 mm)
Mass	10 oz (0.28 kg)
Power Connector	screw terminals
Signal Connector	Molex
Revision Letter	J
Hall Velocity Option	H suffix Hall velocity mode only
Encoder Velocity	BE prefix encoder velocity mode available
Modes	current, open loop, tachometer/encoder velocity
Manufacturer	Advanced Motion Controls
Protection	overvoltage overcurrent overtemperature short circuit

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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Notes	
From Advanced Motion Controls B15A Series datasheet B15A8 column and BE15A8J-H part-number decode (15 A peak, 80 V, J revision, H Hall velocity). Confirm Hall-only versus encoder-velocity jumper settings on the installed unit.	

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.