

Output Type:
PWM

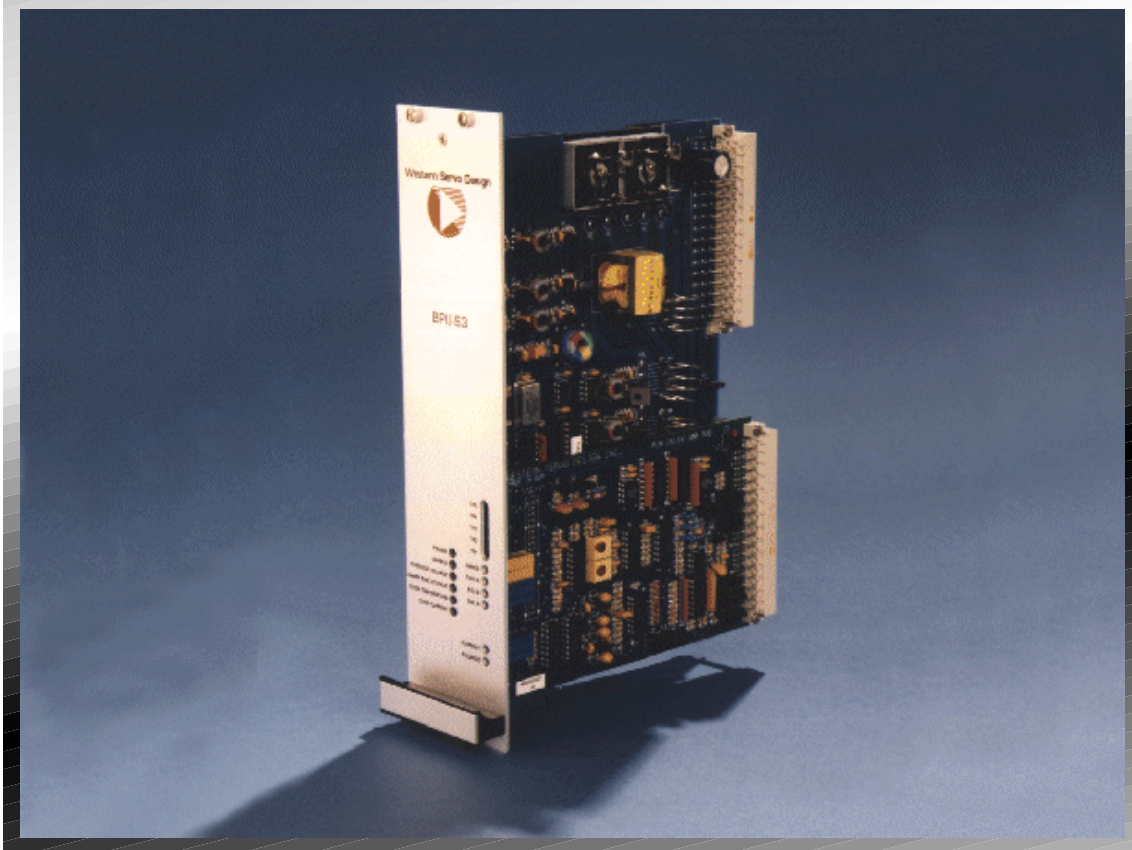
Voltage:
Up to 320 VDC

Amperage:
Up to 30 A Peak

Mounting:
6U Eurocard

Modes:
Torque

Commutation:
Ext Sine, Analog or Digital Hall



BPU-S3

High-Power Brushless PWM Servo Amplifier

The BPU-S3 is a high power brushless PWM servo amplifier in a Eurocard 6U form factor. It is ideally suited to torque control applications or for velocity control using a digital position controller. This amplifier can be configured for External Sinusoidal commutation or for self commutation using either voltage or current supplied Analog Hall effect sensors. This unit is similar to the BPU-S4 but in a larger form factor due to a higher maximum voltage rating. Look to the BPU-S2 if digital Hall effect sensors are required.

The BPU-S3 is a double card unit, consisting of separate Power and Personality Modules. The Personality Module adds digital status reporting capability, inputs for Hall effect sensors, and allows future amplifier reconfiguration with modules under development at Western Servo Design. Hall effect commutation or external sinusoidal commutation may be selected "on the fly" via digital switching. When using external sinusoidal commutation, the amplifier receives two 120° out of phase sinusoidal command inputs. The optimal third phase is derived by the amplifier. This eliminates "cogging" and greatly enhances low speed operation. An optional backplane is available to allow quick and easy access to motor, power, control and other I/O signals.

- ◉ Eurocard 6U Form Factor
- ◉ Accepts Digital or Analog Hall Sensors
- ◉ Two Commutation Modes: Hall Effect and External Sinusoidal Input
- ◉ High Speed Commutation Mode selection using Digital Switching
- ◉ 4 Digital Status Outputs plus Global Fault
- ◉ Travel Limit and Amp Enable Inputs
- ◉ Protected from Over Current, Over Voltage, and Under Bias Conditions
- ◉ Current Monitor Output
- ◉ PWM Frequency: 20 kHz or 80 kHz
- ◉ Bus Voltage: 30 - 320 VDC
- ◉ Continuous Current: 5, 8 or 12 Amperes
- ◉ Full Isolation between Input and Output Circuits
- ◉ Designed for Three-Phase Wye or Delta Wound Motors
- ◉ Advanced Design, Superior Quality and High Reliability
- ◉ One Year Parts and Labor Warranty

