ANALOG BRUSHLESS PWM SERVO AMPLIFIERS

Glentek offers the latest in high performance Analog PWM (Pulse Width Modulated) Servo Amplifiers for the control of both rotary and linear brushless servo motors. With extensive utilization of surface mount technology and special heat transfer techniques, Glentek's Analog Brushless Servo Amplifiers offer one of the world's most powerful products for a given form factor. All models can operate in current (torque) mode and the SMA8200 series can also operate in velocity (RPM) mode. All models accept a +/-10V analog input as a command reference. They provide a range of continuous currents from 5 amps to 100 amps and peak currents from 10 amps to 150 amps. Operating voltages range from either 70-240 or 240-340 VDC for Module and 3U Plug-In configurations and either 110-130 VAC or 208-240 VAC for Stand Alone and Multi-Axis configurations. Please refer to the "Mounting Configurations" section to view the industry standard mounting configurations offered. Note: Not all mounting configurations are available for each model amplifier. Please refer to the "Electrical Ratings and Available Packaging Configurations Section" to determine which packaging configurations are available for each model.
Glentek's Analog Brushless Servo Amplifiers are available in the following three commutation versions:

Trapezoidal

The Trapezoidal brushless servo amplifier accepts a +/-10V analog input as a command reference and commutates the motor trapezoidally by the feedback of Hall sensors or commutation tracks from an encoder. It operates in current (torque) mode and has an option to operate in velocity (RPM) mode with the input of a tachometer. This amplifier is commonly used in cost sensitive point-to-point applications or applications where slight torque ripple is acceptable. Following is a list of the Trapezoidal servo amplifiers that Glentek offers: SMA8110LP, SMA8110, SMA8115, SMA8115HP, SMA8130, SMA81075 and SMA81100.

2-Phase/3-Phase Current Mode

The 2-Phase Current Mode brushless servo amplifier accepts two +/-10V analog inputs as current command references for two of the motor phases and derives the third command reference. The 3-Phase Current Mode brushless servo amplifier accepts three +/-10V analog inputs as current command references for three of the motor phases. These amplifiers do not use any feedback devices and are used with controllers that provide the commutation. Following is a list of the 2-Phase/3-Phase Current Mode servo amplifiers that Glentek offers: SMA8310LP, SMA8310, SMA8315, SMA8315HP, SMA8330, SMA83075 and SMA83100.

Resolver Based Sinusoidal

The Resolver Based Sinusoidal servo amplifier operates in current (torque) or velocity (RPM) mode, accepts a +/-10V analog input as a command reference and commutates the motor sinusoidally for ultra smooth operation at low speeds. It requires a brushless resolver to derive the velocity signal and to commutate the motor. Following is a list of the Resolver Based Sinusoidal servo amplifiers that Glentek offers: SMA8210LP, SMA8210, SMA8215, SMA8215HP, SMA8230, SMA82075 and SMA82100.

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