

# ANALOG BRUSH PWM SERVO AMPLIFIERS FEATURES & OPTIONS

- **Ergonomic design** Easy access to connections, adjustments and test points.
- **SMT construction** Provides ultra compact size, cost competitive package and high reliability.
- **Silent operation** 20 kHz PWM (Pulse Width Modulation) standard.
- **Complete isolation** Complete optical isolation between signal and power stage.
- **Multimode operation** All models can operate in current (torque) or velocity (RPM) mode and accept a +/-10V analog input as a command reference.
- **Wide operating voltage** 30-220 VDC for Amplifier module versions. All stand-alone and multi-axis versions can be ordered for operation from 110-130 VAC (single or 3-phase, 50/60 Hz).
- **Direct AC operation** No transformer required for stand-alone units or multi-axis chassis. The stand-alone units and multi-axis chassis include DC bus power supply, regen clamp and dumping resistor, in-rush current limiting protection at power-on and cooling fans.
- **Fault protection** Short from output to output, short from output to ground, amplifier RMS over current, amplifier over voltage and amplifier over temperature.
- **Industry std. mounting** Available in Module, Stand Alone or Multi-Axis configurations. Optional custom mounting configurations are available to meet virtually any requirement.
- **LED status indicators** A green LED illuminates to display normal operating conditions while red LED's illuminate or flash to indicate various faults.
- **Dedicated inputs** +/- limits, inhibit, fault and reset.
- **External fault reset** An input is provided to reset the amplifier in the event of a fault.
- **Current limit** Peak motor current is adjustable.
- **Frequency response** All servo amplifiers have a nominal 2000 Hertz current loop bandwidth which varies with the motor inductance. Higher bandwidths are available upon request.
- **CE compliant** All servo amplifiers are CE marked.