



DELTA TAU

Data Systems, Inc.

Geo PMAC Drive

Geo PMAC as a Complete Machine Control with ModBus TCP/IP Interface

The Geo Drive family of universal (brush, brushless and induction) motor drive amplifiers consists of one and two axis 3-phase servo amplifiers that support a wide variety of motor types, power ranges, and user interfaces. They are designed to operate directly on the power mains (models for either 240VAC or 480VAC). An external power supply of +24VDC for logic power is required. Geo Drives are available in a one or 2-axis designs that simplify installation and reduce panel space requirements.

The Geo PMAC Drive combines the power of the PMAC2, Programmable Multi-Axis Controller, with a wide selection of amplifier ratings in a convenient compact package. The PMAC2 motion controller inside the Geo Drive can be programmed for virtually any kind of motion control application, and it includes PLC programming features for logic control.

Amplifier Standard Features

- Direct line connections: models for either 240VAC or 480VAC, single or three phase.
- DC operation from 24VDC to 740VDC.
- Designed for UL and CE certification (approval pending).
- Dual-axis configurations are more economical and save panel space and installation wiring.
- Primary encoder for each axis with TTL differential/single-ended inputs with A,B quadrature channels and C index channel, 10 MHz cycle rate, and Hall-effect inputs.
- Eight digital inputs @ 24V and one 12-bit digital-to-analog converter $\pm 10V$ output per single or 2-axis drive.
- Four input flags per axis at 12-24VDC levels: two end-of-travel limits, home flag and user flag. On single axis versions, the second axis flags will be available for general-purpose inputs, for a total count of twelve inputs.
- Complete protection: over voltage, under voltage, over temperature, motor over temperature, short circuit, over current, motor over temperature, input phase loss detection, shunt over-current detection.
- Integrated bus power supply including shunt regulator (external resistor required).
- Full ratings to 45°C ambient.
- ModBus TCP/IP available as an option.



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