Dual Axis SynoNet Amplifier

Description

The Dual Axis SynqNet[™] Amplifier (DASA) is a SynqNet[™] servo drive designed to meet customerspecific cost, function and dimension requirements. This extremely compact package incorporates two independent servo drives designed to each provide up to 5A RMS continuous current from a 48VDC bus. The SynqNet[™] interface enables the OEM to drastically cut down on the machine's wiring and at the same time simplifying machine assembly. I/O monitoring in real-time is supported by SynqNet[™] at the servo update rate, which can be up to 16kHz for the DASA. This enables all machine I/O to be connected to the amplifier, further cutting down on wiring complexity and cost. Real-time diagnostics enable potential failures to be identified before they occur, hence reducing machine down time.





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SynqNet[™]

SynqNet[™] (http://www.synqnet.org) is a high performance, all-digital synchronous network designed for multi- axis motion control applications. The physical layer of SynqNet[™] is based on IEEE 802.3 standards for 100BASE-TX, the physical layer of Ethernet, while the data link and application layers of SynqNet[™] are specifically designed for motion control applications. The 100BASE-TX media system is based on specifications published in the ANSI TP-PMD physical media standard. The 100BASE-TX system operates over two pairs of wires, one pair for 'receive' data signals and the other pair for 'transmit' data signals.

Features

Real-Time Data Monitoring

- Bus voltage
- Drive temperature
- Current
- Analog inputs

Feedback

Incremental Encoder

Servo Control

- Fully digital current loop
- Advanced patented sinewave commutation technology provides smooth, precise low-speed control as well as high-speed performance
- Accurate torque control due to precision balanced current loops with closed loop sensors
- Patented torque angle control enhances motor performance

I/O

- Dedicated brake control
- 14 digital I/O points, configurable over SynqNet[™] to be either inputs or outputs
- 6 general purpose analog inputs

SynqNet™

- Network bandwidth for torque updates up to 16kHz
- Remote diagnostics of motor drive performance
- Remote drive configuration and setup
- Real- time diagnostic programming/ data collection over SynqNet
- Automatic network configuration and integrity check
- Cabling over 100 Meters between each node
- Electrical isolation for robust noise immunity



