

SERVOSTARTM CD SynqNet

Description

The CD SynqNet is a SynqNet[™] servo drive based on the field-proven range of SERVOSTAR[™] CD drives. The power stage is the same as that of the CD, while the control stage is a dedicated SynqNet[™] design. The CD SynqNet is designed as a Torque drive, with torque command being provided at high servo update rates from the SynqNet[™] controller. Extensive I/O support is provided, with

both function-specific inputs, such as Limit Switches, Home and Brake, and numerous general purpose I/Os. The **CD SynqNet** provides divide-by-N capability, enabling it to be programmed to generate an output pulse every N counts of the drive's encoder counter register.

SynqNet™

SynqNetTM (http://www.synqnet.org) is a high performance, all-digital synchronous network designed for multi- axis motion control applications. The physical layer of SynqNetTM is based on IEEE 802.3 standards for 100BASE-TX, the physical layer of Ethernet, while the data link and application layers of SynqNetTM 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.



Identification	Output Continuous Current per phase (RMS/phase)@ 45°C	Output Peak Current per phase (RMS/phase) @ 45°C	AC Line Input Voltage	DC Bus Voltage VDC (nominal)
			115 - 1phase	160
Lx035x5	3 Amps	9 Amps (0.5 Sec)	230 - 1phase	320
			*3 phase, VACL-L 190-230	270-320
			115 - 1phase	160
Lx065x5	6 Amps	18 Amps (0.5 Sec)	230 - 1 phase	320
			*3 phase, VACL-L 190-230	270-320
Lx105x5	10 Amps	20 Amps (2 sec)	*3 phase, VACL-L 190-230	270-320
Lx20565	20 Amps	40 Amps (2 sec)	*3 phase, VACL-L 190-230	270-320
Lx06665	6 Amps	12 Amps (2 sec)	3 phase, VACL-L 380	540
			3 phase, VACL-L 480	680
Lx10665	10 Amps	18 Amp. (0.5 sec)	3 phase, VACL-L 380	540
			3 phase, VACL-L 480	680

^{*3} phase, 190 VACL-L is 3 Phase, 110V per phase



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Features

Feedback

- Incremental Encoder and Heidenhain EnDat[®] Sine Encoder. Other options include support for Resolver and Stegmann Hiperface[®].
- Auxiliary encoder feedback, used for Dual Loop or Master / Slave operation.
- Commutation initialization with minimal motion.

SynqNetTM

- 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
- Support for multiple feedback and dual-loop servo control
- Automatic network configuration and integrity check
- Cabling over 100 Meters between each node
- Electrical isolation for robust noise immunity

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

- 5V through 24V operation
- Dedicated Hardware enable, Positive and Negative Limit and Home inputs
- Brake Output via dry contact relay
- Eight general purpose opto-isolated inputs
- Four general purpose opto-isolated outputs
- Two bi-directional RS422 I/Os
- Fast Divide-by-N pulse output
- Two analog inputs

Robust Power Stage Options

- Self-protecting power modules
- Full protection against short circuit, over-voltage, under-voltage, motor and drive over-temperature, over-current and feedback loss
- Flexible current foldback protection

Ordering Information

Please note: Some models are not standard, but are available upon request 300V Option: LE 06 565* **Logic Power Source** 5 - Internal logic power Feedback Options 6 - External logic power E - Encoder **Current Rating** R - Resolver B - Sine Encoder 03 - 3Amp continous; 9Amp peak 06 - 6Amp continous; 18Amp peak 600V Option: LE 06 665 10 - 10Amp continous; 20Amp peak 20 - 20Amp continous; 40Amp peak **Current Rating** *555 can be ordered only with 03, 06 and 10 Amp. drive 06 - 6Amp continous; 12Amp peak 10 - 10Amp continous; 18Amp peak



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