

# SERVOSTAR™ CD SynqNet™

## Description

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

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



## **Power Ratings**

Identification	Output Continuous Current (RMS per phase)	Output Peak Current (RMS per phase)	AC Line Input Voltage (VACL-L nominal)	DC Bus Voltage (nominal)
Lx 03 5x5	3 Amps	9 Amps (0.5 Sec)	115 - 1phase 230 - 1phase 3 phase, 110V per phase	160VDC 320VDC 160VDC
Lx 06 5x5	6 Amps	18 Amps (0.5 Sec)	115 - 1phase 230 - 1 phase 3 phase, 110V per phase	160VDC 320VDC 160VDC
Lx 10 5x5	10 Amps	20 Amps (2 sec)	3 phase, 110V per phase	160VDC
Lx 06 6x5	6 Amps	12 Amps (2 sec)	3 phase, 380V 3 phase, 480V	540VDC 680VDC
Lx 10 6x5	10 Amps	18 Amp. (0.5 sec)	3 phase, 380V 3 phase, 480V	540VDC 680VDC

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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 without motion

### 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 SyngNet
- 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

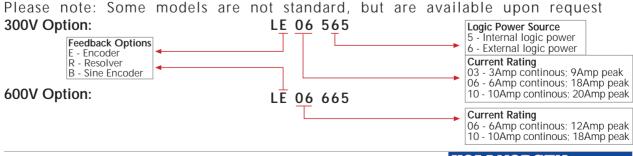
#### I/O

- 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**



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