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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™**

SynqNet™ ([http://www.synqnet.org](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.

### Power Ratings

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

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
- 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:
- Feedback Options: E - Encoder, R - Resolver, B - Sine Encoder
- LE 06 565

600V Option:
- LE 06 665

<table>
<thead>
<tr>
<th>Logic Power Source</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - Internal logic power</td>
<td>06 - 3Amp continuous; 9Amp peak</td>
</tr>
<tr>
<td>6 - External logic power</td>
<td>06 - 6Amp continuous; 18Amp peak</td>
</tr>
<tr>
<td>10 - 10Amp continuous; 20Amp peak</td>
<td></td>
</tr>
<tr>
<td>06 - 6Amp continuous; 12Amp peak</td>
<td></td>
</tr>
<tr>
<td>10 - 10Amp continuous; 18Amp peak</td>
<td></td>
</tr>
</tbody>
</table>

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