LVD High-Performance Low-Voltage Servo Drive

Portescap's LVD [1] is a high-performance low-voltage servo drive, designed to support small and large Brushed DC or Brushless motors. Packed in a high power-density package, LVD is powered from a supply voltage of 12-48VDC, and is capable of 7Amps RMS continuous and 12Amps RMS peak current with CANopen® communication interface.
A wide range of low-voltage applications - LVD offers extensive functionality with multiple I/O inputs and can be operated in Current, Velocity or Position modes. The drive operates at a voltage range of 12V to 48V and supports both BLDC and DC motors. Thanks to its selectable switching frequency, it also supports low inductance motors, making it an ideal drive for a wide variety of applications including surveillance cameras, semiconductor wafer handling processes, highly-sensitive medical applications and more.

Outstanding Performance - LVD offers outstanding performance and accuracy thanks to its space vector modulation current loop and highly flexible tuning capabilities. In addition, LVD offers high sampling rates for the Velocity and Position loops, allowing wider bandwidth and increased accuracy.

High power density in a small footprint - Measuring only 117 x 83.5 x 21.5mm and weighing only 250g, the LVD is one of the smallest low-voltage drives. However, its small scale does not represent the power versatility that it can offer. With 12Amps RMS peak current and switching frequency of up to 100 KHz, LVD is also one of the most powerful low voltage drives in the industry, offering space efficiencies without compromising on performance.

Seamless configuration with Axis Manager- LVD's Axis Manager is an easy to use drive commissioning software. It features user friendly windows for motor and feedback configuration, various control loops tuning, I/O setup window, and

comprehensive monitoring and recording features. The software communicates with the drive via RS232 or CANopen®.

About Portescap
Portescap offers the broadest miniature and specialty motor product line in the industry, encompassing coreless brush DC [2], brushless DC [3], stepper can stack [4], gearheads [5], digital linear actuators [6], disc magnet [7] and hybrid technology [8]. Portescap products have been solving diverse motion control needs in medical [9], semiconductor [10], HVAC/R [11], aerospace [12] and commercial applications [13] for more than 70 years.

Portescap has manufacturing centers in the United States, St. Kitts, Malaysia and India, and utilizes a Global Product Development network with research and development centers in the United States, India, Singapore, and Switzerland.

Portescap 110 Westtown Road, West Chester, PA 19382; 610-235-5499; fax: 610-696-4598; sales.america@portescap.com [14]; www.portescap.com [15].

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[3] http://www.portescap.com/BrushlessSlotlessDC
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