

INMOCO INTRODUCES ONE OF WORLD'S SMALLEST DIGITAL SERVO DRIVES, OFFERING HIGHEST POWER LEVELS UP TO 2400W PEAK

One of the smallest digital servo drives in the world, the Elmo Whistle, is now available in the UK from servo drive specialist Inmoco. Although only the size of a matchbox, the Whistle is the ideal OEM product, delivering up to 1200W of continuous power and over 2400W peak power (with 99% efficiency) for controlling DC brush and brushless motors and linear motors.

The super compact Whistle is claimed to offer the highest power density in its class. This is achieved by integrating Elmo's proprietary FASST (Fast And Soft Switching Technology) power management technology with cutting edge thermal management technology. The result is an extraordinary power density of 35 Watts/cm³; a figure over 5 times greater than that of competitive units.

Underpinning the extreme output power available from the three Whistle servo drives: WHI- 15/60 (15A, 60VDC); WHI-10/100 (10A, 100V) and WHI-15/100 (15A, 100V), is a very high level of operating efficiency. At an input voltage of 85VDC and output current of 15A the dissipated power is less than 16W (typically it is less than 10W) with an output power of 1470W. This equates to an operating efficiency of 99%.

In addition to delivering the highest level of power and efficiency, the Whistle incorporates all the key features necessary for fast and problem-free integration of motors and drives into machines. The servo drive incorporates a digital motion controller that features CANopen networking, a position loop, a velocity loop, a current loop and a very wide range of feedback and I/O options. It also offers OEMs the benefits of simplified set-up and tuning, provided by ELMO's Composer software. The Whistle is the ideal OEM product; its pin-based design means that it is small enough and light enough to be PCB mounted, or installed in a motor housing, or near a motor. This facility, by reducing cabling and installation time, cuts costs significantly, and greatly simplifies maintenance for end-users of the product.

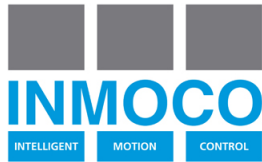
At the heart of the fully digital Whistle, and key to its high performance – is SimplIQ. This Elmo-developed technology provides on- the- fly gain scheduling for current and velocity, with PIP controllers for velocity and position. It also features advanced positioning motion control modes with PTP, PT, PVT, ECAM/follower and Dual Loop, and internal encoder interpolation (up to x 4096) based on Resolver or analogue encoder inputs. In addition, The Whistle, like all Elmo's SimplIQ based products, has programmable opto-isolated digital I/O and host of built-in protection features.

The Whistle offers OEMs the benefits of a third generation programming structure, with motion commands, event triggered programming, event capturing interrupts and 32 KB of memory storage for user programs. Using the Composer programming software, drive set-up, configuration, tuning and analysis are all performed quickly and easily to aid integration into machines.

About INMOCO

Established in 1987, INMOCO now offers an extensive range of motion control equipment including: compact servo amplifiers, position controllers, stepper motors, PLC controllers, linear motors, sensors, electric actuators and gearheads. INMOCO's product portfolio is supported by extensive applications and technical expertise, in addition to customer-specified electro-mechanical development and sub-assembly services; including calibrating and testing in a class 10,000 clean room facility.

Editor Contact



DMA Europa Ltd. : Brett Davies

Tel: +44 (0)1299 405454

Fax: +44 (0)1299 403092

Web: www.dmaeuropa.com

Email: admin@dmaeuropa.com

Company Contact

INMOCO : Gerard Bush

Tel: +44 (0)1327 307600

Fax: +44 (0)1327 300319

Web: www.inmoco.co.uk

Email: GerardB@inmoco.co.uk