MEPS – Minimum Energy Performance Standard Technical Notice for Kollmorgen Servo and Stepper Motors

Per **Directive 2009/125/EC** and **Regulation EC/640/2009**, electric motors must reach certain efficiency levels. The requirements of the MEPS directive are found in similar forms throughout the globe.

These requirements are further detailed in the following standard:EN 60034-30-2Rotating Electrical Machines - Part 30-2 Efficiency classes of variable speed
AC motors (IE-code).

Kollmorgen has reviewed this standard for application to its component motors, and, after consultation with industry experts, has determined, based on the scope of the standard, that its servo and stepper motors are out of scope and do not require efficiency testing or labelling.

Per the standard EN 60034-30-2, section 1, Scope: **"Excluded from this standard are:**

Motors that are designed for servo applications, i.e. applications where frequent overload or field-weakening operations or frequent speed and torque changes occur and no thermal steady state operation is reached."

Kollmorgen products excluded from the scope and requirements of the standard:

Product:	All Kollmorgen Servo and Stepper motors
Servo Motors:	AKM Motors, AKM2G Motors (*), AKMH Motors, Goldline Motors, CDDR and
	DDR Motors, VLM Motors, Housed and Cartridge Motors, KBM Motors, TBM
	Motors, RBE Motors, DDL Motors.
Stepper Motors:	PMX Motors, PowerMax M & P Motors, PowerPac K & N Motors, CT Motors,
	T2, T, KM, and MH172 Motors, E & H Motors

Kollmorgen explosion proof motors are excluded by both the standard and the Directive.

For further information on the state of the art for MEPS, please see the proceedings of the 2016 (and later) Motor Summit in Zurich, Switzerland:

(*) https://motorsummit.ch/wp-content/uploads/2020/08/MS16 proceedings 0.pdf

For information specifically on application of the standard to servo motors please see the section by Doppelbauer.

Manufacturer: Address:

Phone: Country: Kollmorgen Corporation 201 W Rock Rd Radford, VA 24141-4099 540 639-2495 USA

David Digby From

Signed:

Name: Title: David Digby Empson Compliance Engineer January 18, 2017

(* updated August 26, 2020)

201 West Rock Road • Radford, VA 24141 • Tel: 540.639.2495 • www.kollmorgen.com