LAM Technologies
electronic equipment

DMS7xEx3

EtherCAT®

The vector control technology integrated in the high torque integrated stepper motors has produced a performing system able to reduce installation costs and overall dimensions.

The **DMS7xEx3** integrated motors have **NEMA34** flange and nominal torque up to **12.1Nm** and are equipped with **EtherCAT** fieldbus (**CoE** protocol and CiA **DS402** profile).

The models with integrated **Encoder** allow the closed-loop control which eliminates stall problems, allows torque control, reduces noises and improves the overall performance of the application. Activating the dynamic current control the motor heating and the energy consumption are contained.

The drive can operate according to the *Profile Position*, *Profile Velocity*, *Profile Torque*, *Cyclic Synchronous Position (CSP)* and *Cyclic Synchronous Velocity (CSV)* modes. Also available **touchprobe** functions and *Homing* mode, which includes more than 50 different types of homing.

The power supply can be provided in both DC and **AC** and can also be removed to secure the application while still leaving the bus active through the auxiliary power supply.

Family Development

Power Supply / Motor Torque 24Vdc Auxiliary Power Supply	3 Digital Inputs 3 Digital Inputs/Outputs 2 Analog Inputs	3 Digital Inputs 3 Digital Inputs/Outputs 2 Analog Inputs **Closed loop incremental Encoder**
20..50Vdc (16..36Vac) / 4.4Nm	**DMS71E4321(A)**	**DMS72E4321(A)**
20..50Vdc (16..36Vac) / 6.8Nm	**DMS71E4331(A)**	**DMS72E4331(A)**
20..50Vdc (16..36Vac) / 9.2Nm	**DMS71E4350(A)**	**DMS72E4350(A)**
20..50Vdc (16..36Vac) / 12.1Nm	**DMS71E4360(A)**	**DMS72E4360(A)**
24..90Vdc (20..65Vac) / 4.4Nm	**DMS71E7321(A)**	**DMS72E7321(A)**
24..90Vdc (20..65Vac) / 6.8Nm	**DMS71E7331(A)**	**DMS72E7331(A)**
24..90Vdc (20..65Vac) / 9.2Nm	**DMS71E7350(A)**	**DMS72E7350(A)**
24..90Vdc (20..65Vac) / 12.1Nm	**DMS71E7360(A)**	**DMS72E7360(A)**

*The suffix **A** (for ex. DMS72E4331**A**) identifies the AC versions*

The setting and diagnostics are possible through the use of the free **Omni Automation IDE** commissioning software.

All mentioned trademarks belong to their legitimate owners as well as products and trade names

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rev. 0.02

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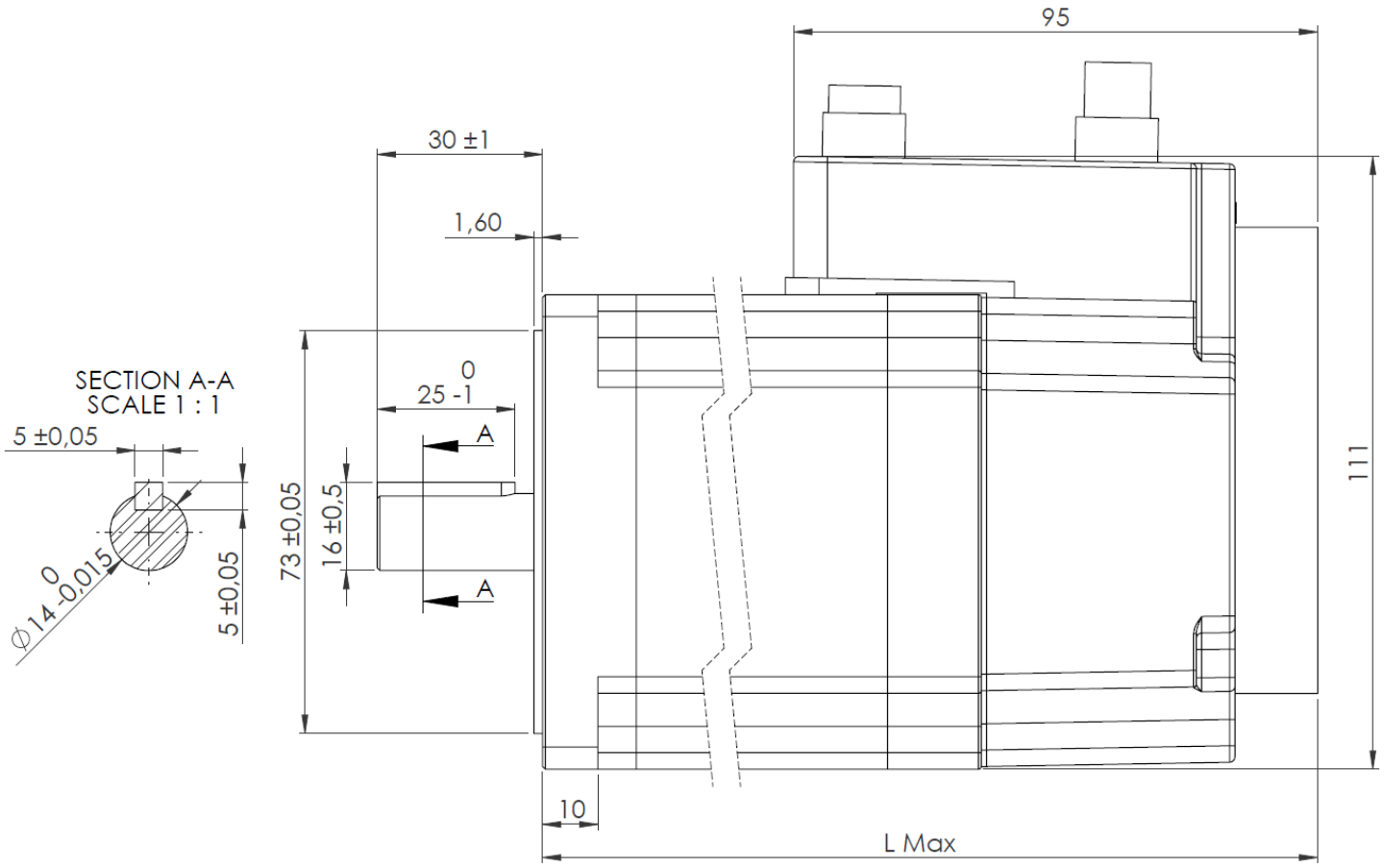
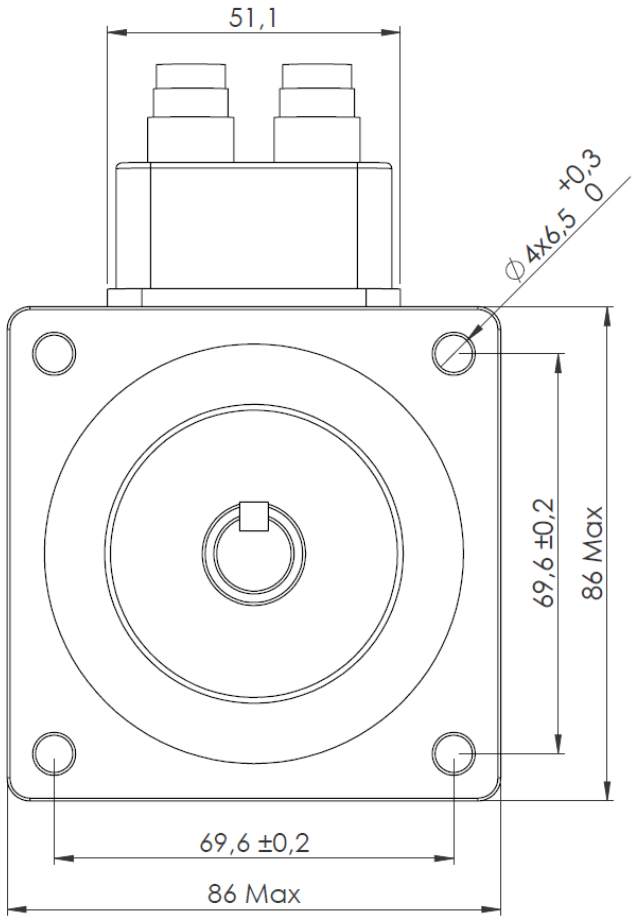
Model	L Max (mm)
DMS7xEx321x	141
DMS7xEx331x	161
DMS7xEx350x	189
DMS7xEx360x	213