

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 **DMS7xEx2** integrated motors have **NEMA23** flange and nominal torque up to **3.0Nm** 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 removed to secure the application while still leaving the bus active through the auxiliary power supply.



Family Development

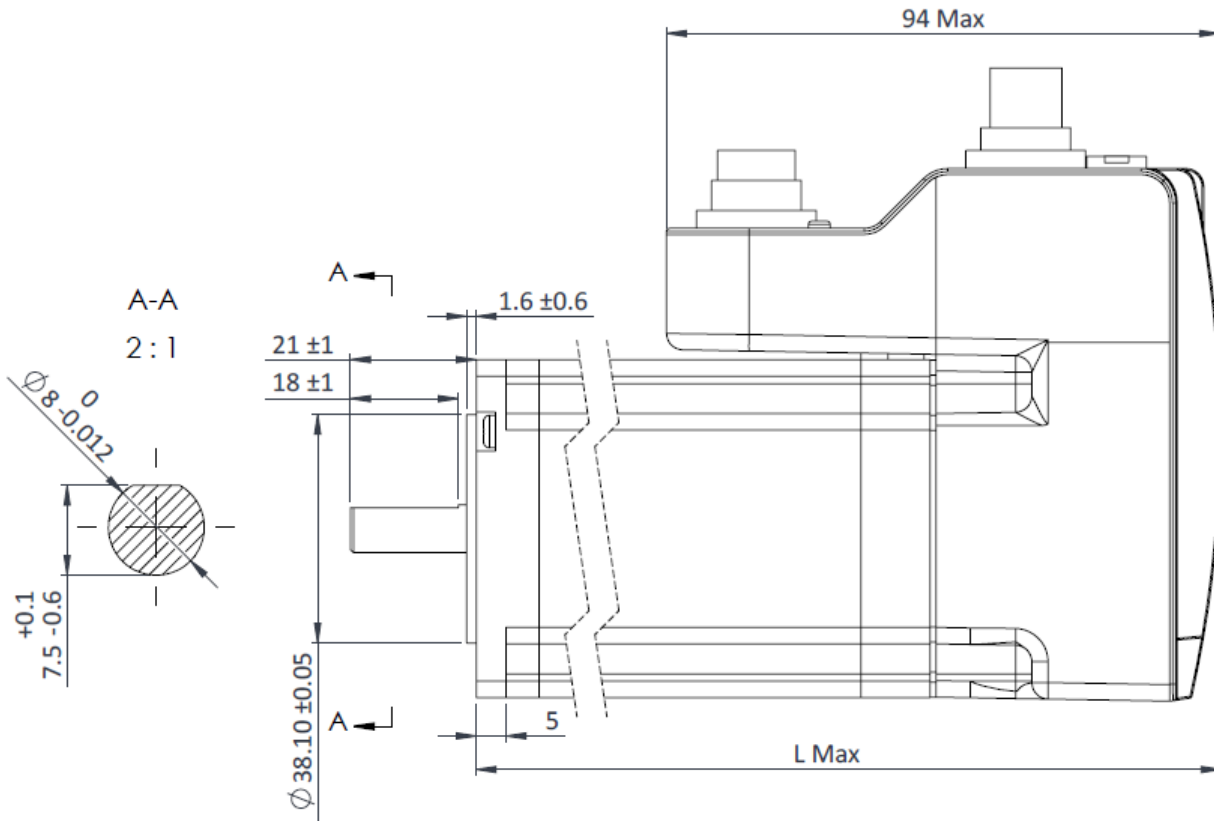
Power Supply / Motor Torque	3 Digital Inputs 3 Digital Inputs/Outputs 2 Analog Inputs	3 Digital Inputs 3 Digital Inputs/Outputs 2 Analog Inputs Closed loop incremental Encoder
24Vdc Auxiliary Power Supply		
20..50Vdc / 1,1Nm	DMS71E4241	DMS72E4241
20..50Vdc / 1,8Nm	DMS71E4264	DMS72E4264
20..50Vdc / 3,0Nm	DMS71E4271	DMS72E4271
24..90Vdc / 1,1Nm	DMS71E7241	DMS72E7241
24..90Vdc / 1,8Nm	DMS71E7264	DMS72E7264
24..90Vdc / 3,0Nm	DMS71E7271	DMS72E7271

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

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Model	L Max (mm)
DMS7xEx241	106
DMS7xEx264	126
DMS7xEx271	150

