LAM Technologies electronic equipment

DDS7xE

The **DDS7xE** series stepper motor drives are equipped with **EtherCAT** fieldbus and support the **CoE** (CANopen over EtherCAT) protocol with CiA **DS402** profile.

The models with **Encoder** input allows the motor control in **closed-loop**, avoiding the step losses' problems and improving the application performances. The dynamic control of the current allows to limit the motor heating and the power requirement.

The drive can operate according to the Profile Position, Profile Velocity, Profile Torque, Cyclic Synchronous Position (CSP) and Cyclic Synchronous Velocity (CSV) modes. Finally, the Homing mode is available and includes more than 50 different homing methods.

The drive gets advantage from full digital technology and vector control technique to minimize vibrations and noise.

The digital outputs are programmable and can signal, for example, the status of operative drive, reached position, motor at standstill, etc. It is also possible to assign a digital output to the brake control with insertion and release times freely settable.

Family Development

Power Supply / Motor Current 24Vdc Auxiliary Power Supply	5 Digital Inputs, 2 Digital Outputs 1 Analog Input	8 Digital Inputs, 3 Digital Outputs 1 Analog Input 1 Encoder Input A, B, I
20..50Vdc (16..36Vac) / 0.2..1.4Arms	**DDS71E41(A)**	**DDS72E41(A)**
20..50Vdc (16..36Vac) / 1.0..4.5Arms	**DDS71E44(A)**	**DDS72E44(A)**
20..50Vdc (16..36Vac) / 2.0..10.0Arms	**DDS71E48(A)**	**DDS72E48(A)**
24..90Vdc (20..65Vac) / 1.0..4.5Arms	**DDS71E74(A)**	**DDS72E74(A)**
24..90Vdc (20..65Vac) / 2.0..10.0Arms	**DDS71E78(A)**	**DDS72E78(A)**

The A suffix (for ex. DDS72E78A) identifies the AC versions

The I/O equipment is complete and includes both digital and analog inputs and outputs. The drive has a separate supply for the logic that keeps the fieldbus operative even without the power supply.

Dimensions are extraordinarily compact, just 35x96x120mm for the largest size. The installation on the DIN rail is immediate and the wiring is made simple by the removable terminal blocks.

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

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