

The **DDS7xP** series stepper motor drives are equipped with **PROFINET IO** Industrial Ethernet fieldbus and are able to control the motor in **Position**, **Velocity** and **Torque** mode. The digital implementation and the vector control of the motor ensure high performances and efficiency.



The **IRT** communication allows updating of the set points with a cycle time of less than **1ms**.

The DDS7xP drives are supplied with the **GSDML** file and integrate perfectly into the STEP 7 TIA Portal development environment from SIEMENS.

Each drives has 2 Ethernet connectors and one IRT integrated switch which allow the series connection (daisy chain) of multiple drives on the PROFINET network without the need for any additional hardware.

The I/O equipment is complete and includes both **digital and analog inputs and outputs**. There are also available models with Encoder input able to **control the motor in closed-loop**, removing the step losses' problems and improving the motor efficiency.

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



## Family Development

Power Supply / Motor Current	5 Digital Inputs, 2 Digital Outputs 1 Analog Input	8 Digital Inputs, 3 Digital Outputs 1 Analog Input 1 Encoder Input A, B, I
24Vdc Auxiliary Power Supply		
20..50Vdc (16..36Vac) / 0.2..1.4Arms	<b>DDS71P41(A)</b>	<b>DDS72P41(A)</b>
20..50Vdc (16..36Vac) / 1.0..4.5Arms	<b>DDS71P44(A)</b>	<b>DDS72P44(A)</b>
20..50Vdc (16..36Vac) / 2.0..10.0Arms	<b>DDS71P48(A)</b>	<b>DDS72P48(A)</b>
24..90Vdc (20..65Vac) / 1.0..4.5Arms	<b>DDS71P74(A)</b>	<b>DDS72P74(A)</b>
24..90Vdc (20..65Vac) / 2.0..10.0Arms	<b>DDS71P78(A)</b>	<b>DDS72P78(A)</b>

*The A suffix (for ex. DDS72P78A) identifies the AC versions*

The drive has a separate power supply for the logic and is protected against over or under-voltage, over-temperature, short circuits, etc.

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

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## LAM Technologies

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