





The **DDS6** series drives are realized in full digital technology and are suitable for the driving of two phase stepper motors.

They are equipped with the **CANopen fieldbus** and can control the motor in **torque**, **velocity** and **position** with high accuracy.

In addition to the digital and analog I/O they provide with inputs for incremental and absolute encoders.

The integrated protections and the isolation of the fieldbus and I/O ensure high reliability. The detailed diagnostics information and the permanent storage of the errors facilitate the detection and resolution of problems.

The family comprises 30 different models with differing functionality and power.

Family Development					
Power Supply	CANopen DS301 Rev. 3.0 and IEC 61800-7-201/301(DSP402)				
/ Motor Current	Digital I/O	Digital and Analog I/O	Digital and Analog I/O		
		ABZ Encoder	ABZ Encoder		
24Vdc Auxiliary Power Supply			Absolute Encoder		
2050Vdc (1636Vac) / 0.21.4Arms	DDS6041(A)	DDS6241(A)	DDS6441(A)		
2050Vdc (1636Vac) / 1.04.5Arms	DDS6044(A)	DDS6244(A)	DDS6444(A)		
2050Vdc (1636Vac) / 2.010.0Arms	DDS6048(A)	DDS6248(A)	DDS6448(A)		
2490Vdc (2065Vac) / 1.04.5Arms	DDS6074(A)	DDS6274(A)	DDS6474(A)		
2490Vdc (2065Vac) / 2.010.0Arms	DDS6078(A)	DDS6278(A)	DDS6478(A)		

The A suffix (for ex. DDS6278A) identifies the AC versions

The DDS6 series drives state of the art technology that is the result of more than 28 years of experience. The motor is **vector controlled** that makes the concept of step division obsolete. The **STEPLESS operation** mode ensures high speed and maximum torque use. With a motor with integrated encoder it is possible to use the stepper technology also in applications that require **torque control**. Ultimately, the fieldbus in standard CANopen ensures an efficient and quick integration into modern automation systems.

The compact size and the quick **DIN rail mounting** give additional advantages that, together with the competitive cost, make the DD6 series drives the best choice for any modern application.



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

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## **LAM Technologies**

Viale Ludovico Ariosto, 492/D 50019 Sesto Fiorentino (FI)

Ph: + 39 055 4207746 Fax: +39 055 4207651

Email: <u>info@lamtechnologies.com</u> www.lamtechnologies.com

## DDS6

## Main technical Data:

Moels	Description		Value					
		Min	Тур	Max				
DDS5x41(A)	Power supply voltage (for DC models)	20		50	Vdc			
	Power supply voltage (for AC models)	16		36	Vac			
	Motor phase current	0.2		1.4	Arms			
DDS6x44(A)	Power supply voltage (for DC models)	20		50	Vdc			
	Power supply voltage (for AC models)	16	-	36	Vac			
	Motor phase current	1		4.5	Arms			
DDS6x48(A)	Power supply voltage (for DC models)	20		50	Vdc			
	Power supply voltage (for AC models)	16		36	Vac			
	Motor phase current	2		10	Arms			
DDS6x74(A)	Power supply voltage (for DC models)	24		90	Vdc			
	Power supply voltage (for AC models)	20		65	Vac			
	Motor phase current	1		4.5	Arms			
DDS6x78(A)	Power supply voltage (for DC models)	24		90	Vdc			
	Power supply voltage (for AC models)	20		65	Vac			
	Motor phase current	2		10	Arms			
All models	Auxiliary Power Supply Voltage	20	24	35	Vdc			
	Digital Input Voltage Range	3		28	Vdc			
	Digital Input Supply Current	3	4	8	mA			
	Digital Output Voltage Range	1		30	Vdc			
	Digital Output Current Range			80	mA			
	Analog input operating voltage	-10		+10	Vdc			
	Analog inputs impedance		47		ΚΩ			
	Supply voltage for Encoder	5.0	5.2	5.4	Vdc			
	Supply current for Encoder			100	mA			
	Encoder Input Compatibility	Line Driver,	Line Driver, TTL/CMOS, Open Collect		or			
	PWM frequency		20		KHz			
	Mechanical Specifications							
	Height		100		mm			
	Depth		122		mm			
DDS6x41,	Width		23		mm			
DDS6xx4	Weight		130		g			
DDS6xx8	Width		35		mm			
	Weight		220		g			
DDS6x41A,	Width		35		mm			
DDS6xx4A	Weight		190		g			
DDS6xx8A	Width		35		mm			
	Weight		270		g			

x = any character, also nothing

The A suffix (for ex. DDS6278A) identifies the AC versions.

Connectors AC version, CN4 and CN5 only available on DDS62xx(A) series.

