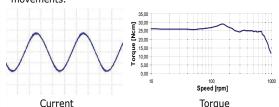
ASTURPER HAME

√ Vectorial control

The sinusoidal phase current with "else" technology keep the motor torque constant allowing smooth and noiseless movements.



- √ Motor stall detection without encoder *1
- √ Smooth movement
- √ Compact size
- √ Noiseless rotation
- √ Reliability
- √ Low EM emissions
- √ Software resonance damping
- √ Auto tuning of motor control parameters
- √ High efficiency current set up
- √ Reduction of moto temperature
- *1 only for LW3D30xx models

Specifications

Code	Power supply	Current max	Motors type
LW3D2030	12 ÷ 36 Vdc	3.0 Arms	2 phases
LW3D3032	24 ÷ 80 Vdc	3.2 Arms	2 phases
LW3D3070	24 ÷ 80 Vdc	7.1 Arms	2 phases

OPTO ISOLATED INPUTS

4 Digital IN NPN, PNP or Line-Driver 2 MHz

OPTO ISOLATED OUTPUT

1 Digital OUT 24 Vdc - 100 mA for status monitoring

STEP RESOLUTION

From full step up to 1/256 (emulated)

SAFETY PROTECTIONS

Over/Under voltage, Over Current, Over Temperature, Short Circuit Phase/Phase and Phase/Ground

STATUS MONITORING

3 LED with guiding light (green and red/yellow)

TEMPERATURE

Working: from 0°C to 40°C. Storage: from -25°C to 55°C

5% ÷ 85%

PROTECTION CLASS

Vectorial diffusion for 2 phases stepper motors





Titanio drivers

- Equipped with advanced safety features:
 - √ Sensorless motor stall detection.
 - √ Integrated diagnostic
 - √ Protections against short circuit motor, open phases, over/under voltage and temperature

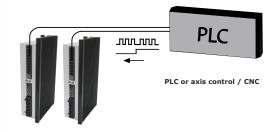
LW3D drivers of Titanio series, based on Arm Core M4 technology, are the solution to control stepper motors in clock&direction mode with an accuracy, smoothness and noiseless never seen before for a stepper driver.



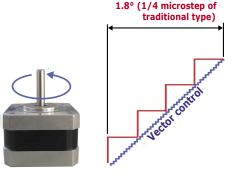
EVER Motion Solutions srl

Via del Commercio, 2/4 -9/11 Loc. S. Grato - Z.I. 26900 - LODI (LO) - Italy Tel. 0039 0371 412318 - Fax 0039 0371 412367 email infoever@everelettronica.it www.everelettronica.it

STITE CHORICATION



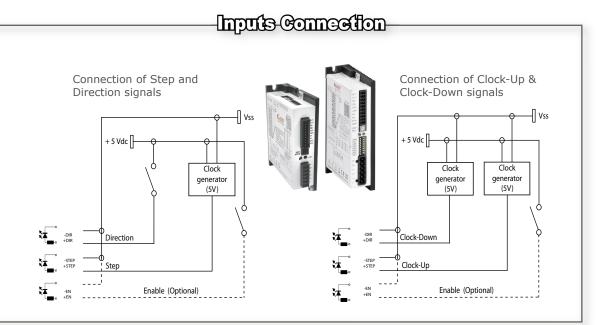
- Setting of the current value by means of dip-switches
- Selection of the step angle by means of roto-switches. In order to maintain compatibility with traditional drivers, step angles have been emulated through software, the current regulation is always sinusoidal.

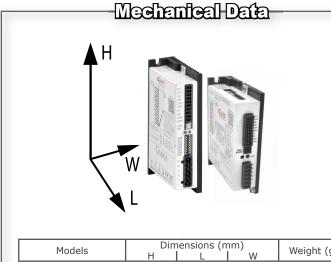


- Possibility to select five user functions:
- 1 enabling of motor stall detection. Reading the motor BEMF, LW3 drivers detect without encoder the step loss, showing alarm status with the Fault digital OUT and a LED sequence.
- 2 Step/Direction or Clock-Up / Clock-Down control mode.
- 3 enable input management (safety control).
- 4 30% or 70% automatic current reduction (still motor).
- 5 enabling of "Clock Test" function, useful during the driver's installation, which shows the right presence of the clock signal through status LED flashing.



□□□□□□ Clock frequency





Models	Dimensions (mm) H L W		Weight (g.)	
LW3D2030N2A1-00	95.0	73.0	23.0	290
LW3D30xxN0A1-00	128.0	74.0	30.0	290

extra astronomical participation for LWED Drives

Ordering code		Power	System resources					
Versions	Power Supply	Current	Digital Inputs	Analog Inputs	Digital Outputs			
LW3D Drive Series: Models 2030								
LW3D2030N2A1-00	12 ÷ 36 Vdc	$0.10 \div 3.0 \text{ Arms}$ (0.14 ÷ 4.2 Apeak)	4 opto isolated 5-24 Vdc NPN, PNP or Line Driver 2 MHz		1 opto isolated 24 Vdc 100 mA PNP for FAULT			
LW3D Drive Series: Models 3032								
LW3D3032N0A1-00	24 ÷ 80 Vdc	$0.21 \div 3.2 \text{ Arms}$ $(0.3 \div 4.5 \text{ Apeak})$	4 opto isolated 2-24 Vdc NPN, PNP or Line Driver 2 MHz		1 opto isolated 24 Vdc 100 mA PNP for FAULT			
LW3D Drive Series: Models 3070								
LW3D3070N0A1-00	24 ÷ 80 Vdc	$1.70 \div 7.1 \text{ Arms}$ (2.4 ÷ 10.0 Apeak)	4 opto isolated 2-24 Vdc NPN, PNP or Line Driver 2 MHz		1 opto isolated 24 Vdc 100 mA PNP for FAULT			