Specifications

MODELS

Code	Power supply	Current max	Motors type
LW3A9030	100 ÷ 240 Vac	3.0 Arms	2 phases

OPTO ISOLATED INPUTS
4 Digital IN 5 ÷ 24 Vdc NPN, PNP or Line-Driver

OPTO ISOLATED OUTPUT
1 Digital OUT 24 Vdc - 400 mA PNP/NPN for status monitoring

STEP RESOLUTION
Full Step, ½, ¼, 1/8, 1/2.5, 1/5, 1/10 configurable by means of Dip-Switches and other step angle could be defined by software

SCI INTERFACE
Serial interface for parameters configuration and debug in real time

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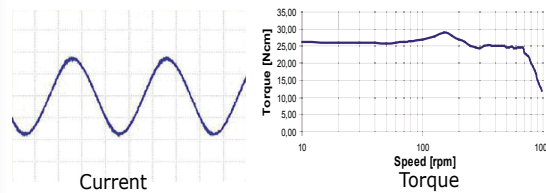Working: from 0°C to 40°C. Storage: from -25°C to 55°C

HUMIDITY
5% ÷ 85%

PROTECTION CLASS
IP20

Vectorial control

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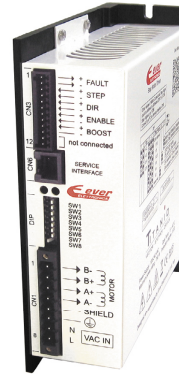

Current

Torque

√ Smooth movement

√ Noiseless rotation

√ Low EM emissions

√ Software resonance damping

√ Reduction of motor's temperature

Vectorial drivers for 2 phases stepper motors

error less servo efficient
else technology ®
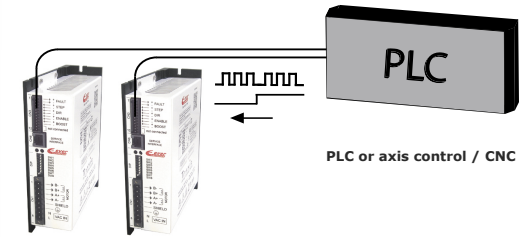by Ever Elettronica

TITANIO
VECTOR · STEPPER · DRIVES

WARRANTY
3 YEARS

LW3A
Titanio drivers

√ Mains 230 Vac power supply

√ Sensorless motor stall detection

√ Built-in Service Serial Interface for parameters configuration and debugging via software

√ Protections against short circuit motor, open phases, over/under voltage and temperature
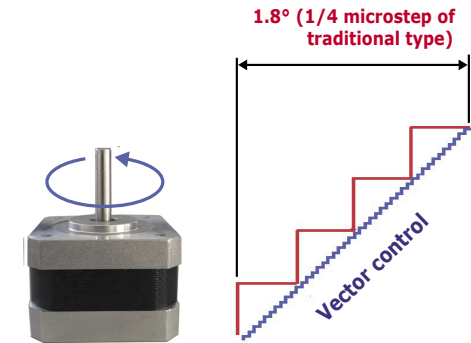

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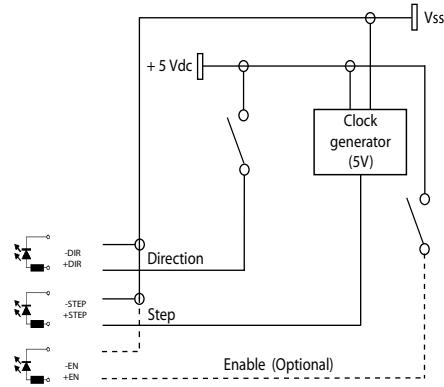www.everelettronica.it

PLC

PLC or axis control / CNC

● Setting of the current value by means of dip-switches

● Selection of the step angle by means of dip-switches. In order to maintain compatibility with traditional drivers, step angles have been emulated through software, the current regulation is always sinusoidal.
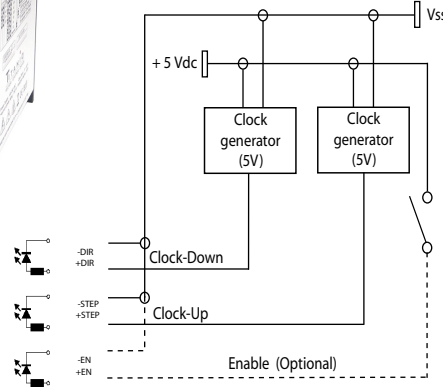
1.8° (1/4 microstep of traditional type)

Vector control

● 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 - automatic current reduction via software (still motor).

Connection of Step and Direction signals
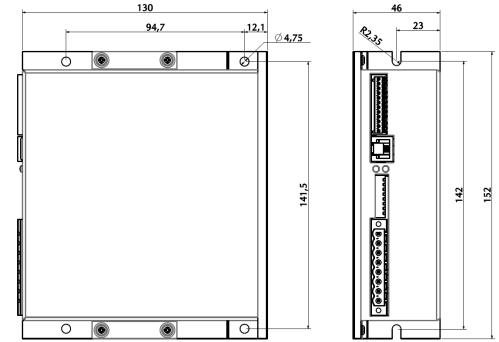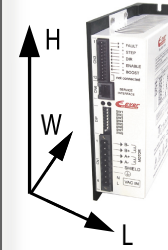
Connection of Clock-Up & Clock-Down signals

Vss

+ 5 Vdc

Clock generator (5V)

-DIR
+DIR   Direction

-STEP
+STEP   Step

-EN
+EN   Enable (Optional)

Vss

+ 5 Vdc

Clock generator (5V)   Clock generator (5V)

-DIR
+DIR   Clock-Down

-STEP
+STEP   Clock-Up

-EN
+EN   Enable (Optional)

Models	Dimensions (mm)			Weight (g.)
	H	L	W	
LW3A9030N2A1-00	152.0	46.0	130.0	800

Ordering Information for LW3A Drives

Ordering code	Power		System resources		
Versions	Power Supply	Current	Digital Inputs	Digital Outputs	Kit Software
LW3A Drive Series: Models 9030					
LW3A9030N2A1-00	100 ÷ 240 Vdc	0.0 ÷ 3.0 Arms (0.0 ÷ 4.2 Apeak)	4 opto isolated 5-24 Vdc NPN, PNP or Line Driver	1 opto isolated 24 Vdc 400 mA PNP or NPN for FAULT	LW3A9_SERV10-SL