

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, 1/2, 1/4, 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

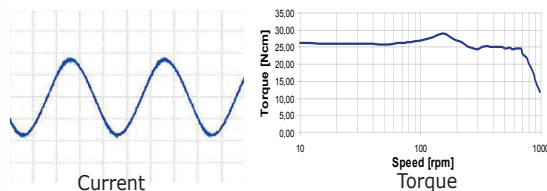
5% ÷ 85%

PROTECTION CLASS

IP20

Vectorial control

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



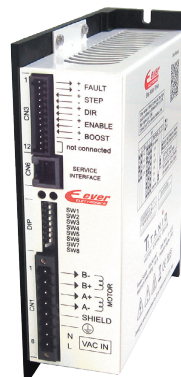
- ✓ Smooth movement
- ✓ Noiseless rotation
- ✓ Low EM emissions
- ✓ Software resonance damping
- ✓ Reduction of motor's temperature

Vectorial drivers for 2 phases stepper motors

error
less
servo
efficient

else technology®

by Ever Elettronica



TITANIO
VECTOR - STEPPER - DRIVES



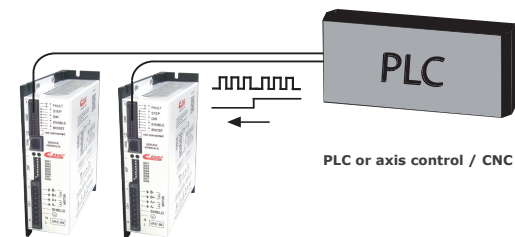
LW3A Titanio drivers

- ✓ 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

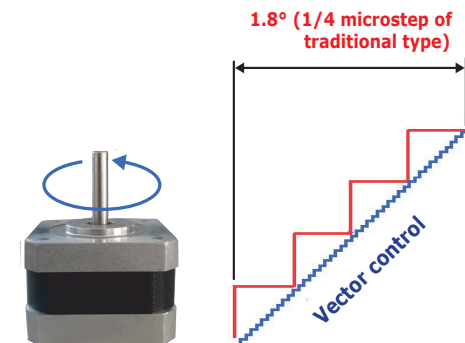
ever
E-MOTION SOLUTIONS

EVER MOTION CONTROL
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

STEP & DIRECTION



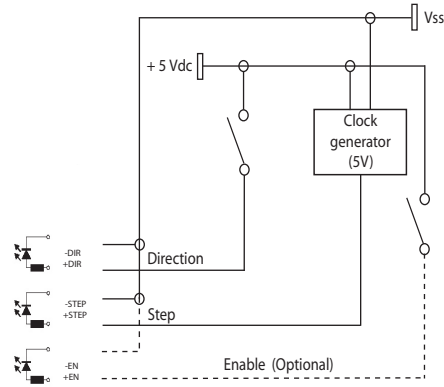
- Setting of the current value by means of dip-switches
- Selection of the step angle by means of dip-switches. In order to maintain compatibility with traditional drivers, step angles have been emulated through software, the current regulation is always sinusoidal.



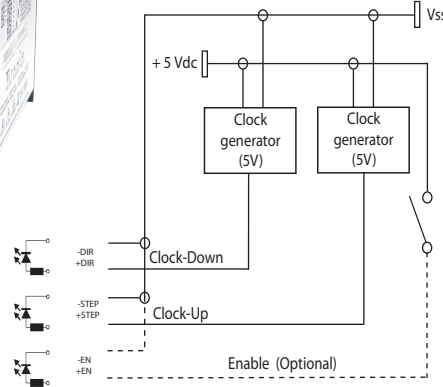
- Possibility to select five user functions:
 - 1 - enabling of motor stall detection. Reading the motor BEMF, LW3 drivers detect without encoder the step loss, showing alarm status with the Fault digital OUT and a LED sequence.
 - 2 - Step/Direction or Clock-Up / Clock-Down control mode.
 - 3 - enable input management (safety control).
 - 4 - automatic current reduction via software (still motor).

Inputs Connection

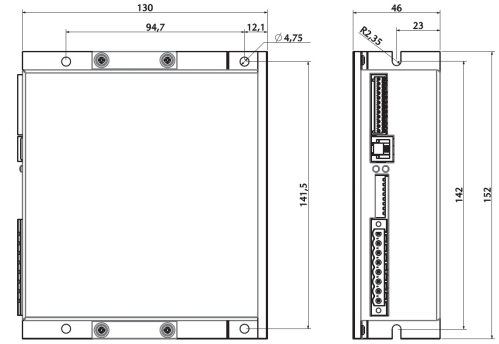
Connection of Step and Direction signals



Connection of Clock-Up & Clock-Down signals



Mechanical Data



| 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 | Configuration Cable |
| 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 | EVER-PGM-2 |