# **BSD 02.S** Series Drives



## **INTRODUCTION**

- New series of microstep stepping motor drives specifically developed for small and mid-size stepping motors.
- Ultra-compact and optimized design to reduce space and cost, combined with Adaptive Microstepping technology ensuring noise and vibration suppression.
- Target: simple and effective motion control solutions requiring low power, high precision, smoothness of movement and low acoustic noise.
- Ideal solution to replace integrated circuits and selfmade, low power drives. The perfect choice for small routers, medical, 3D printers and all types of compact machines.

## **HIGHLIGHTS**

- Full digital microstepping drive.
- Adaptive microstepping up to 3.200 step/rev.
- Intelligent management of the current profile that achieves good results in terms of smoothness of movement, low noise and vibration control.
- Highly compact, easy to use and cost effective solution. This system is designed to be soldered to a PCB.
- A highly sophisticated control system, preserving anyhow the traditional ease of use of R.T.A. drives.

# **NEW VERSION EQUIPPED WITH SOLDER PINS (STRIPLINE)**



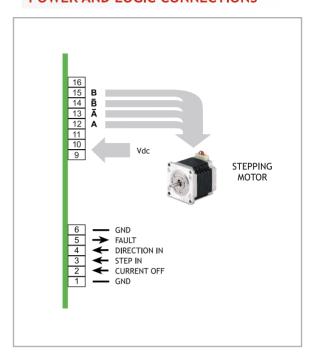
Series	Model	V <sub>DC</sub> range	l <sub>np</sub> min. (Peak value)	I <sub>№</sub> max. (Peak value)	Dimensions
		(Volt)	(Amp)	(Amp)	(mm)
BSD	02.S	24 to 48	0.7	2.2	78x68x27



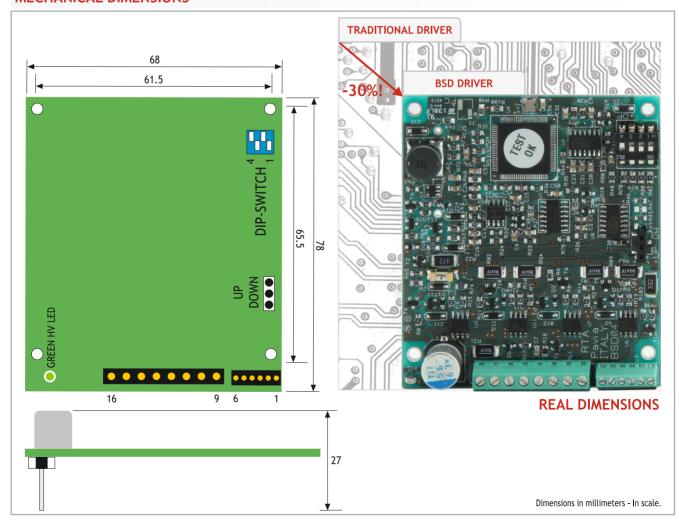
## **TECHNICAL FEATURES**

- Range of operating voltage: 24-48 V<sub>DC</sub>
- Range of current: 0.7-2.2 Amp. Setting up to four possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600 and 3.200 steps/revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Management of the current profile setting by means of a dip-switch.
- Protections:
  - -Protection against under-voltage.
  - -Protection against a short-circuit at motor outputs.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction.
- Available version: open frame, crimp-type/screw-type/ solder pin connectors.
  Maximum compactness.
- Warranty: 24 months.

## **POWER AND LOGIC CONNECTIONS**



#### MECHANICAL DIMENSIONS



GARANZ

