

# BSD 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 self-made, 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.
- A highly sophisticated control system, preserving anyhow the traditional ease of use of R.T.A. drives.

Series	Model	V <sub>DC</sub> range (Volt)	I <sub>NP</sub> min. (Peak value) (Amp)	I <sub>NP</sub> max. (Peak value) (Amp)	Dimensions (mm)
BSD	02 - 02.V*	24 to 48	0.7	2.2	78x68x21

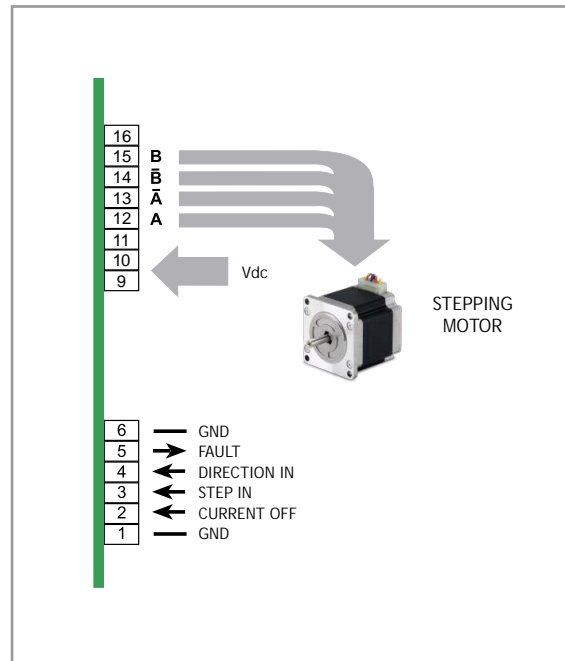
\* BSD 02.V version is equipped with screw-type connectors.

## TECHNICAL FEATURES

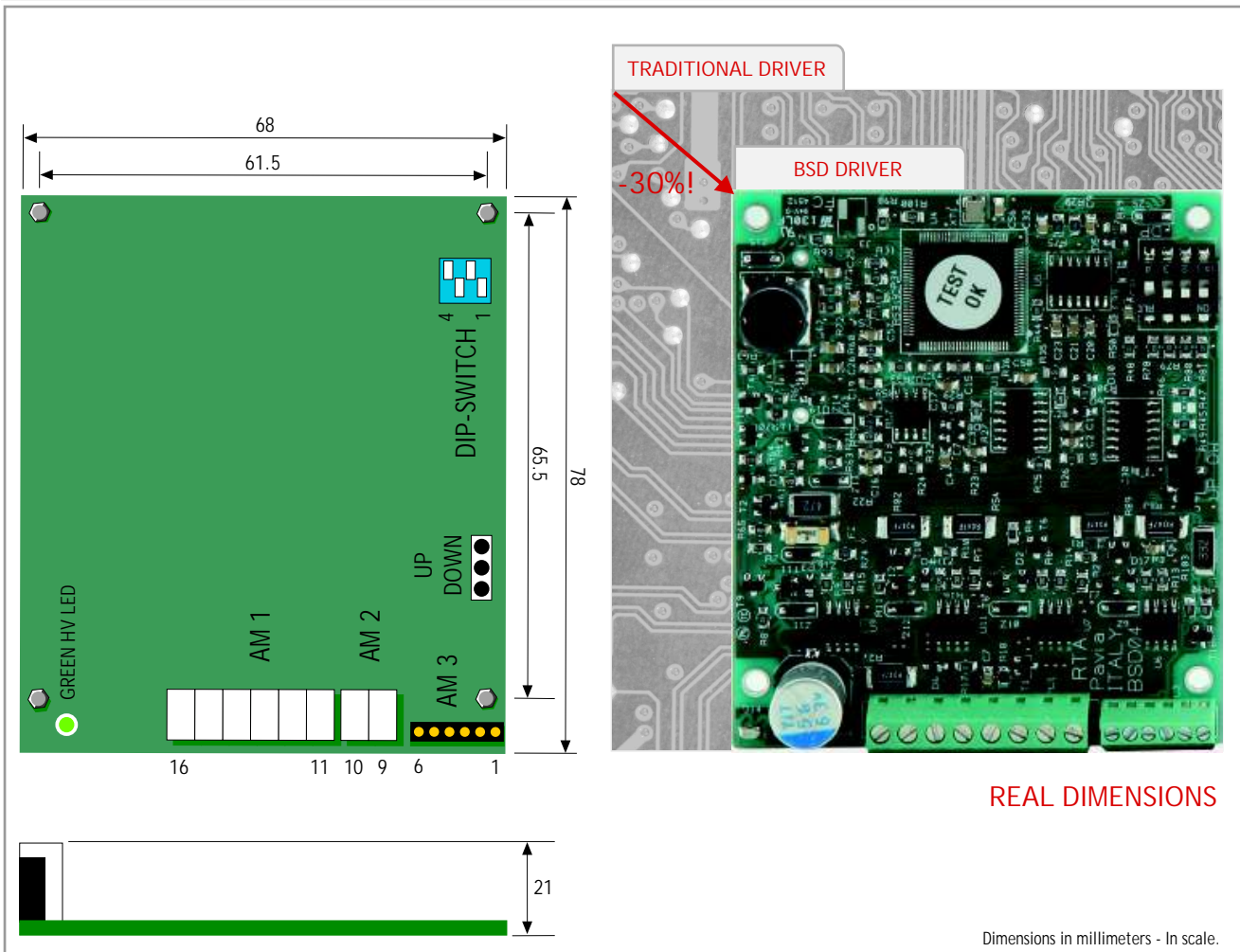
- Range of operating voltage: 24-48 V<sub>DC</sub>.
- Range of current: 0.7-2.2 Amp. Setting up to four possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600 and 3.200 steps/revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Management 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 connectors. Maximum compactness.
- Warranty: 24 months.



## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



Dimensions in millimeters - In scale.

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R.T.A. s.r.l.  
Via E. Mattei - Fraz. Divisa  
27020 MARCIGNAGO (PV) ITALY  
Tel. +39.0382.929.855 - Fax +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzer Straße 34  
40599 DÜSSELDORF (Germany)  
Tel. +49.211.749.668.60 - Fax +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA-Motion Control Systems S.L.  
C/Generalitat 22, 1° 3°  
08850 GAVA - BARCELONA (Spain)  
Tel. +34.936.388.805 - Fax +34.936.334.595  
www.rta-iberica.es