

# PLUS A/B Series Drives

## INTRODUCTION

- Stepping motor drives series with Step & Direction interface suitable for driving two-phase stepping motors, with four, six or eight terminals based on the following versions:
  - **PLUS A3 and PLUS A4:** with DC power supply (39-140 V<sub>DC</sub>)
  - **PLUS B3, PLUS B4 and PLUS B7:** with AC power supply (28-100 V<sub>AC</sub>)
- Compact, easy to use and cost effective solution. This system is designed for mounting inside a metallic electrical cabinet. Suitable for wall mounting.
- Target: medium and medium-high power applications requiring great dynamic performance, high reliability, low acoustic noise and mechanic vibrations reduction.

## HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- External fans not needed: ideal both for mounting inside a metallic electrical cabinet and for stand-alone applications.
- Operation with built-in oscillator with speed range from 14 to 450 rpm setting by means of dip-switches.



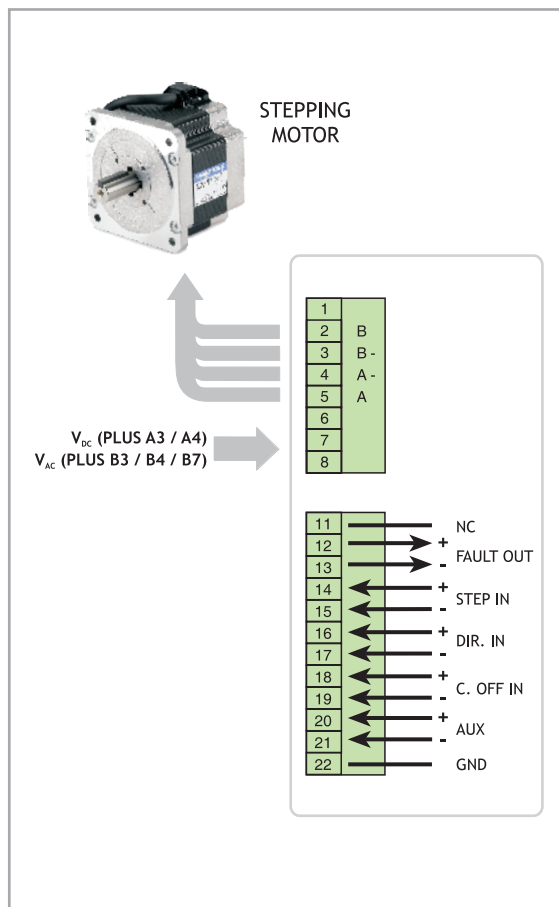
| Series | Model | V <sub>AC</sub> range<br>(Volt) | V <sub>DC</sub> range<br>(Volt) | I <sub>NP</sub> min.<br>(Peak value)<br>(Amp) | I <sub>NP</sub> max.<br>(Peak value)<br>(Amp) | Dimensions<br>(mm) |
|--------|-------|---------------------------------|---------------------------------|---|---|--------------------|
| PLUS   | A3    |                                 | 39 to 85                        | 2.4   | 8.0   | 152x129x46         |
| PLUS   | A4    |                                 | 77 to 140                       | 1.9   | 6.0   | 152x129x46         |
| PLUS   | B3    | 28 to 62                        |                                 | 2.4   | 8.0   | 152x129x46         |
| PLUS   | B4    | 55 to 100                       |                                 | 1.9   | 6.0   | 152x129x46         |
| PLUS   | B7    | 28 to 62                        |                                 | 3.0   | 10.0  | 152x129x46         |

## TECHNICAL FEATURES

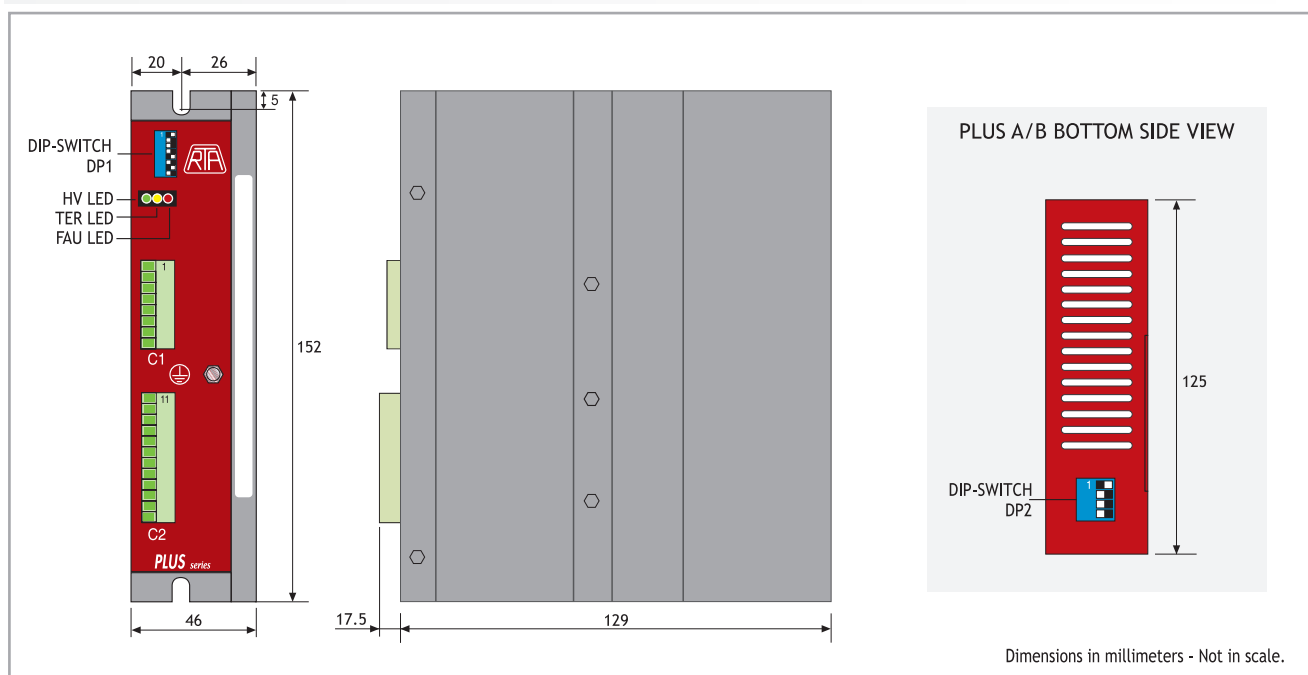
- Range of operating voltages: 39-140 V<sub>DC</sub> (PLUS A3 and PLUS A4) and 28-100 V<sub>AC</sub> (PLUS B3, PLUS B4 and PLUS B7).
- Range of current: 1.9-10.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overheating protection with thermal sensor.
- Optoinsulated inputs compatible with differential control signals.
- Possibility to switch off motor current with an external logic signal.
- High efficiency CHOPPER with MOSFET final stage output.
- Operation with built-in oscillator with speed range from 14 to 450 rpm setting by means of dip-switch.
- Alarm memory by use of yellow blinking led.
- Version: boxed, equipped with crimp-type connectors. Maximum compactness.
- Warranty: 24 months.



## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



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