

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_{DC})
 - **PLUS B3, PLUS B4 and PLUS B7:** with AC power supply (28-100 V_{AC})
- 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.



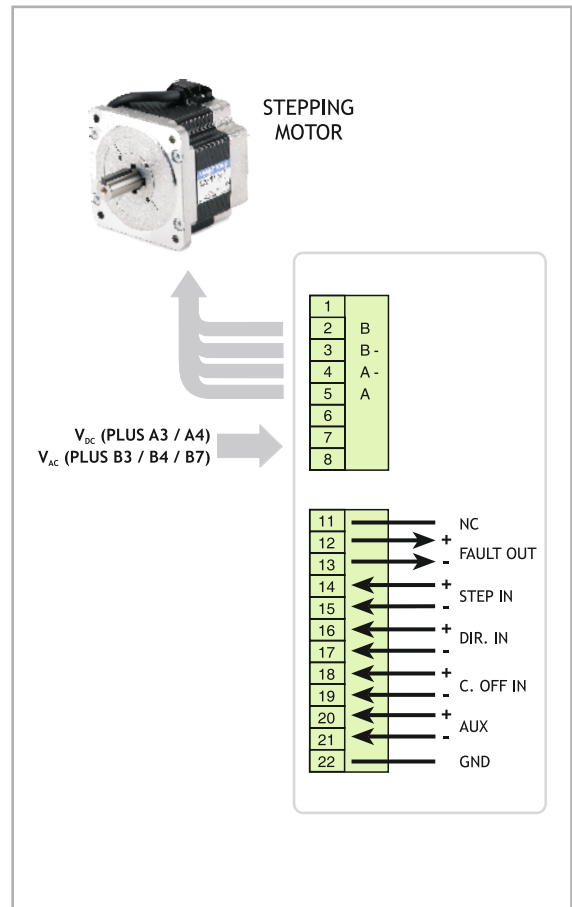
Series	Model	V _{AC} range (Volt)	V _{DC} range (Volt)	I _{NP} min. (Peak value) (Amp)	I _{NP} max. (Peak value) (Amp)	Dimensions (mm)
PLUS	A3		39 to 85	2.4	8.0	152x129x46
PLUS	A4		77 to 140	1.9	6.0	152x129x46
PLUS	B3	28 to 62		2.4	8.0	152x129x46
PLUS	B4	55 to 100		1.9	6.0	152x129x46
PLUS	B7	28 to 62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

TECHNICAL FEATURES

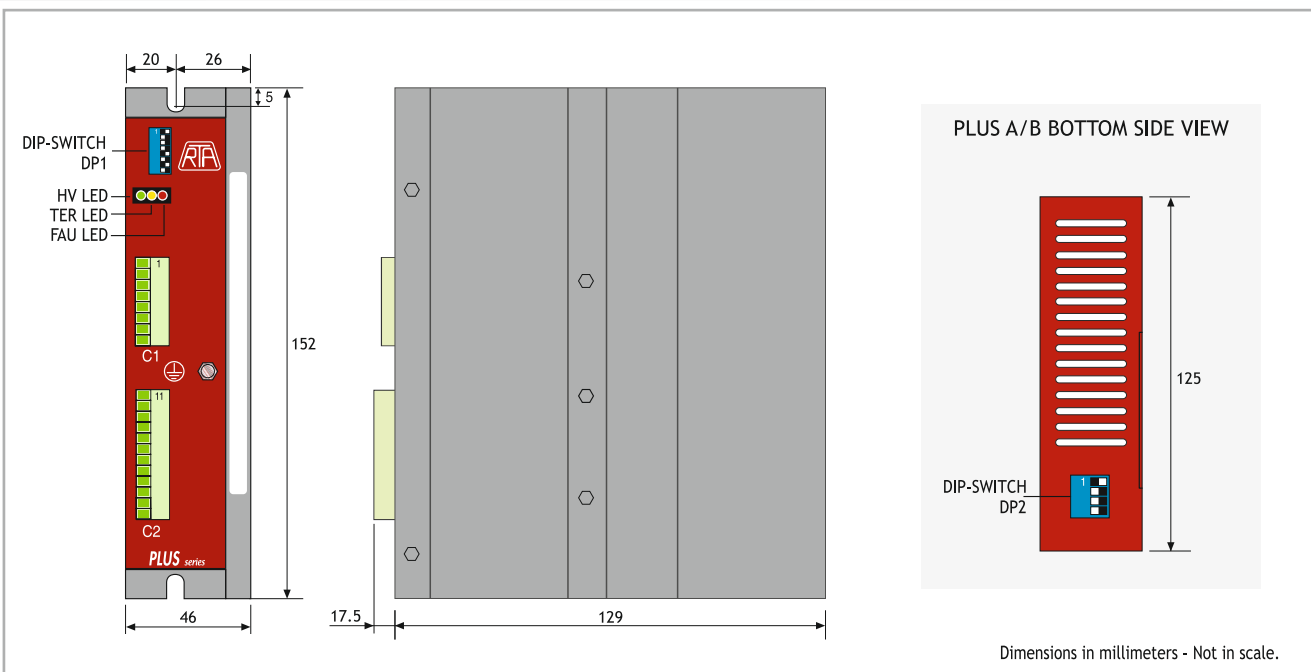
- Range of operating voltages: 39-140 V_{DC} (PLUS A3 and PLUS A4) and 28-100 V_{AC} (PLUS B3, PLUS B4 and PLUS B7).
- Range of current: 1.9-10.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. 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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