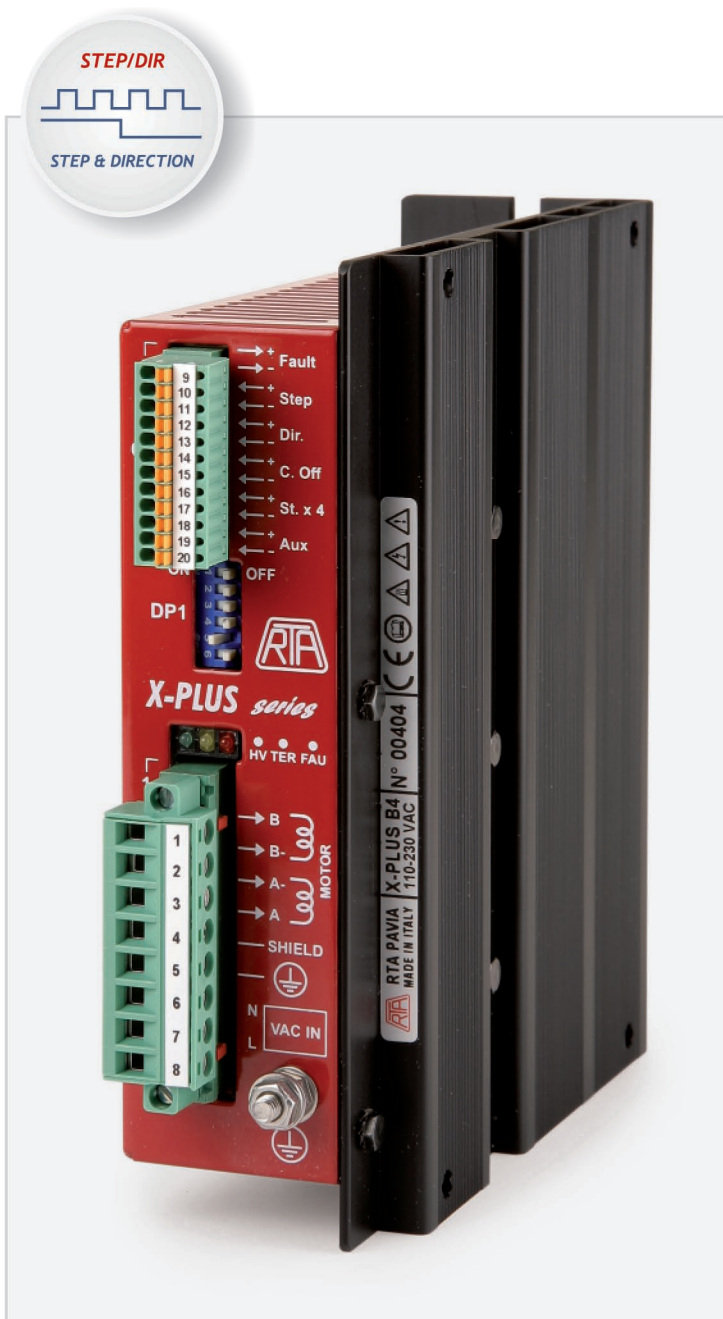


## INTRODUCTION

- Stepping motor drives series with Step & Direction interface and direct input from the main AC power supply (from 110 V<sub>AC</sub> to 230 V<sub>AC</sub>).
- The drive is equipped with an internal rectifier able to transfer more than 330 V<sub>DC</sub> (230 V<sub>AC</sub>) to the motor, in order to ensure the maximum power for the application as well as a significant cost saving on transformer and rectifier, together with the related cabling.
- Target: advanced application requiring great dynamic performance, high reliability and simplified power supply.

## HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Connection directly to the main AC supply (110 to 230 V<sub>AC</sub>) normally avoiding the need for a transformer.
- 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.
- Optoinsulated and differential input and output signals ease interfacing with the most commonly used control systems and ensure high noise immunity.
- Coupling with stepping motors rated for high voltage and equivalent or bigger than NEMA 34 is mandatory.



**ONE OF THE MOST COMPACT DRIVES WITH POWER INPUT DIRECTLY FROM THE MAIN AC SUPPLY (110 - 230 VAC)**

Series	Model	V <sub>AC</sub> range (Volt)	I <sub>NP</sub> min. (Peak value) (Amp)	I <sub>NP</sub> max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	B4	110 to 230 +/- 15%	2.4	4.0	152x129x46



Gral. C.M. de Alvear 171  
(B1832BVC) - Lomas de Zamora



(+54 11) 3988-7001



Whatsapp  
(+54 911) 5383-9778



ventas@varitel.com

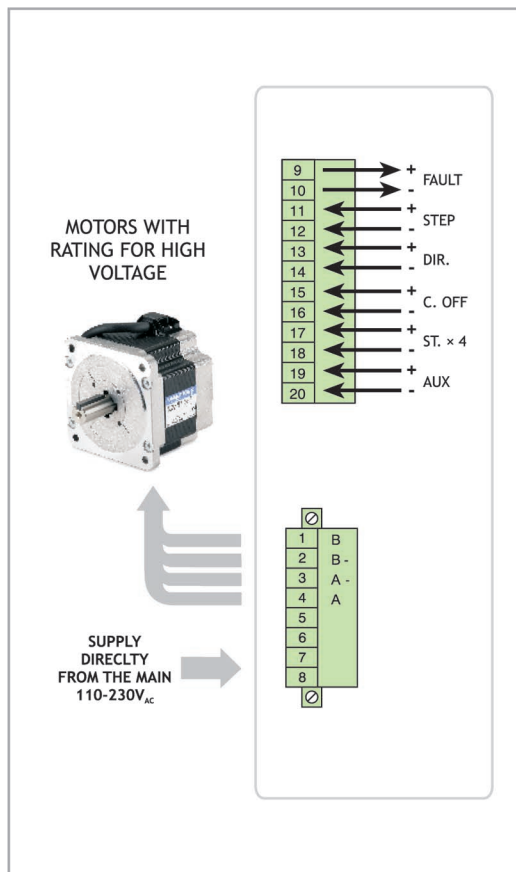


## TECHNICAL FEATURES

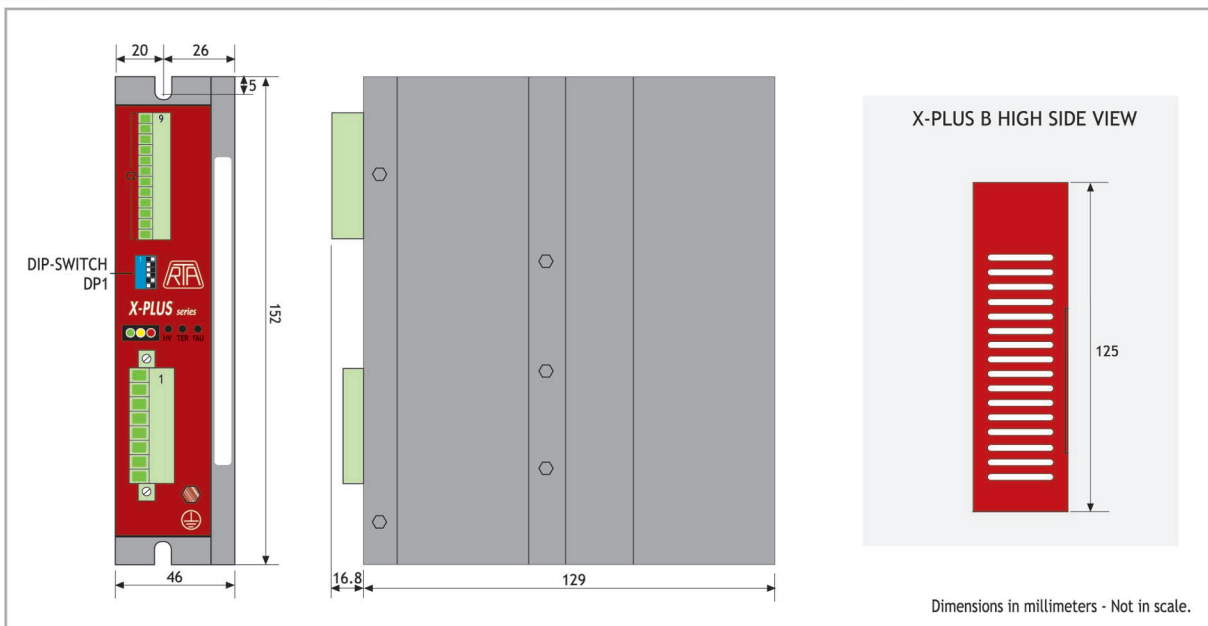
- Range of operating voltages: 110-230 V<sub>AC</sub>.
- Range of current: 2.4-4.0 Amp. Setting up to four possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overtemperature protection.
- Optoinsulated inputs compatible with differential control signals.
- Possibility to switch off motor current with an external logic signal.
- High efficiency CHOPPER with IGBT final stage output.
- Electronic resonance damping circuit to ensure acoustic noise and mechanic vibrations reduction at low and medium speed.
- Alarm memory by use of yellow blinking led.
- External fans not needed.
- Coupling with stepping motors rated for high voltage and equivalent or bigger than NEMA 34 is mandatory.
- Version: boxed, equipped with crimp-type connectors. Maximum compactness.
- Warranty: 24 months.



## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



Gral.C.M.de Alvear 171  
(B1832BVC) - Lomas de Zamora



(+54 11) 3988-7001



Whatsapp  
(+54 911) 5383-9778



ventas@varitel.com



### INTRODUCTION

- New series bipolar microstep stepping motor drive with power input directly from the main AC supply (110 V<sub>AC</sub> to 230 V<sub>AC</sub>), specifically developed for applications requiring high performance with reduced acoustic noise and low vibrations.
- Target: advanced applications requiring high precision, low noise and smoothness of movement.
- The perfect choice for combining high power and low acoustic noise.

### 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.



**ONE OF THE MOST COMPACT DRIVES WITH POWER INPUT DIRECTLY FROM THE MAIN AC SUPPLY (110 - 230 VAC)**

Series	Model	V <sub>AC</sub> range	I <sub>NP</sub> min. (Peak value)	I <sub>NP</sub> max. (Peak value)	Dimensions
		(Volt)	(Amp)	(Amp)	(mm)
X-PLUS	B4.1	110 to 230 +/- 15%	2.4	4.0	152x129x46



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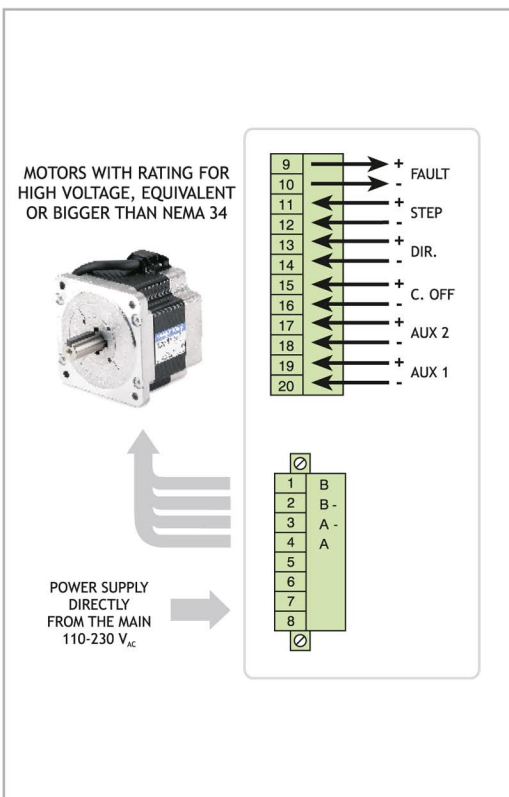


## TECHNICAL FEATURES

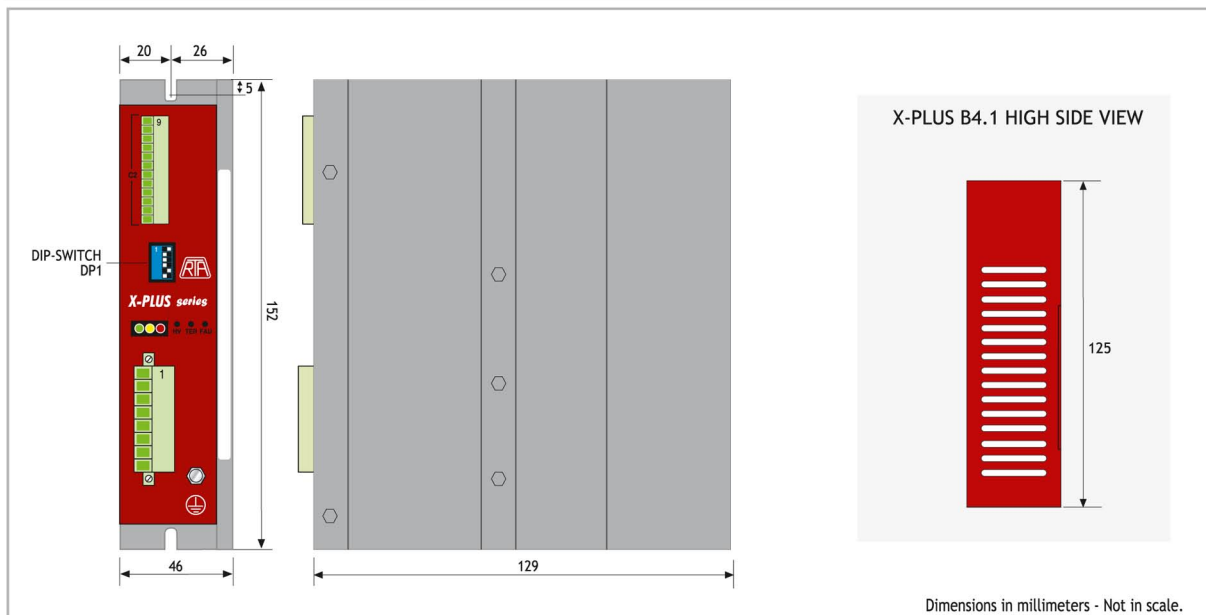
- Range of operating voltage: 110-230 V<sub>AC</sub>.
- Range of current: 2.4-4 Amp. Setting up to four possible values by means of dip-switches.
- Microstepping: 400, 800, 1,600 and 3,200 steps/revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Management of the current profile setting by means of a dip-switch.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overtemperature protection with thermal sensor.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction.
- Available in boxed version with plug-in connectors. Maximum compactness.
- Optoinsulated inputs to ensure best EM noise immunity.
- External fans not needed.
- Coupling with stepping motors rated for high voltage and equivalent or bigger than NEMA 34 is mandatory.
- Warranty: 24 months.



## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



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