

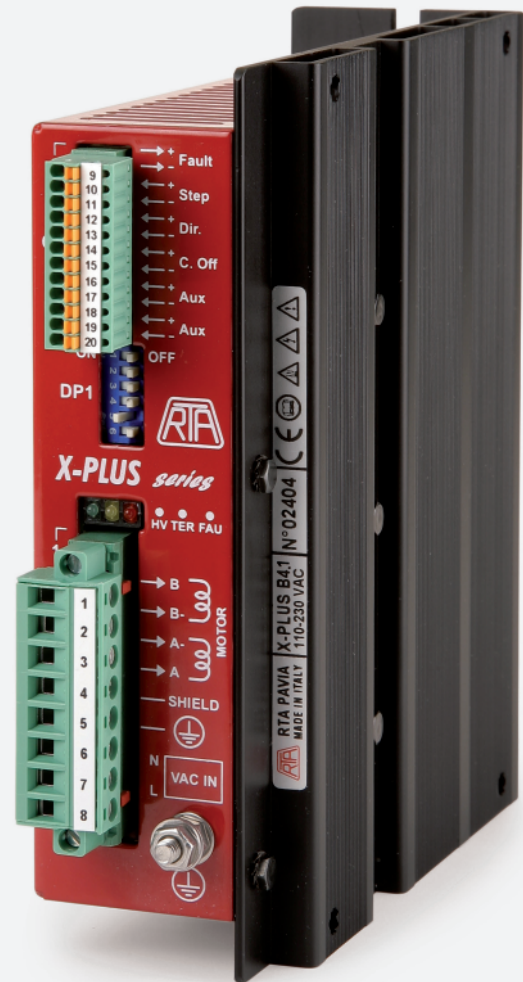


## INTRODUCTION

- X-PLUS B4.1 is the name of the new 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 sensitive to acoustic noise and vibration.
- Target: advanced applications requiring high precision, low noise and smoothness of movement.
- The perfect choice for 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 operation system, preserving anyhow the traditional ease of use of R.T.A. drives.



Model	Driver Type	V <sub>AC</sub> range	I <sub>NF</sub> min. (Peak value)	I <sub>NF</sub> max. (Peak value)	Micro Stepping	Dimensions
		(VOLT)	(AMP)	(AMP)	(Step/Rev)	(mm.)
<b>X-PLUS B4.1</b>	Step & Direction	110 to 230 +/- 15%	2.4	4.0	3,200	box 152x129x46

## TECHNICAL FEATURES

- Range of operating voltage: 110-230 V<sub>AC</sub>.
- Range of current: 2.4-4 Amp. Easy setting of values by means of a dip-switch.
- Microstepping: 400, 800, 1,600 and 3,200 steps/revolution. Setting by means of a dip-switch.
- 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.
- Necessity to be coupled with stepping motors rated for high voltage and equivalent or bigger than NEMA 34.
- Warranty: 24 months.



## R.T.A. PRODUCTS STRENGTHS

- Great reliability, highly recognized in the field.
- Ease of use combined with great simplicity in the setup phase.
- A track record of over 30 years in stepping drives production, with over 650,000 units sold in 39 countries worldwide.
- Excellent pre and post sales support through qualified staff and strict corporate procedures.

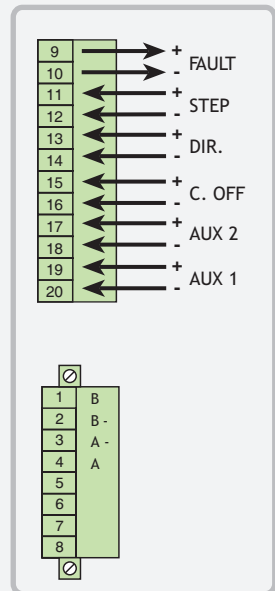


## POWER AND LOGIC CONNECTIONS

MOTORS WITH  
RATING FOR HIGH VOLTAGE,  
EQUIVALENT OR BIGGER THAN NEMA 34



POWER SUPPLY  
DIRECTLY  
FROM THE MAIN  
110-230 V<sub>AC</sub>



## MECHANICAL DIMENSIONS

