

X-PLUS RS4 Series Drives

INTRODUCTION

- X-Plus RS4 is a new model of RTA flagship high-power stepping motor drive with Step & Direction and Analog Input interface.
- The embedded Auto-Sync function with encoder enhances the drive features and optimizes the motor performances.
- Also available with Modbus RTU interface.

HIGHLIGHTS

- Embedded Auto-Sync function with encoder, featuring a closed loop positioning.
- Easy parameter setting via DIP switches.
- Modes of operation: STEP&DIR or Analog Input velocity setpoint (± 10 V) for application where SPEED CONTROL is needed.
- Integrated system for back EMF energy dissipation with optional external resistor.
- LED diagnostic function.
- Zero index searching function.
- Encoder signal output functionality included.



STO FUNCTION FEATURES

- Safe Torque Off (STO) function - **SIL3-Pl_e**
- Error Detection Monitor (EDM) output



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

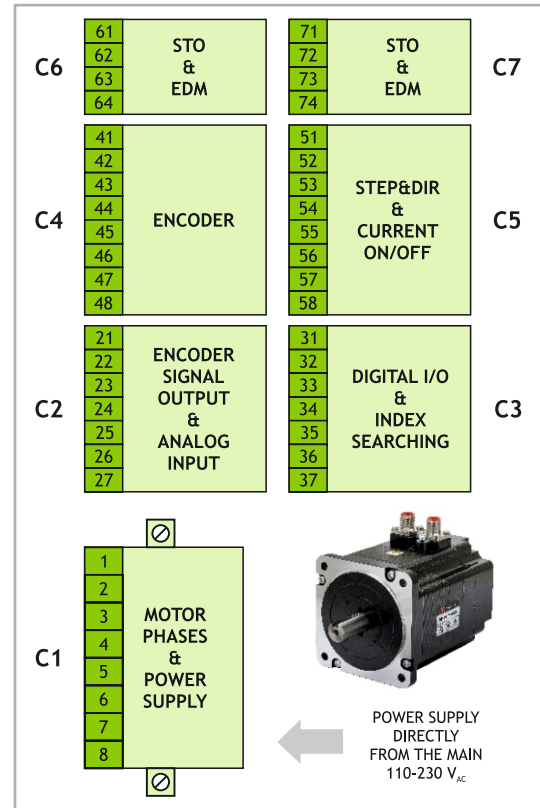
Series	Model	V _{AC} range (Volt)	I _{NP} min. (Peak value) (Amp)	I _{NP} max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	RS4	110 to 230 +/- 15%	1.2	4.8	169x129x46

TECHNICAL FEATURES

- Range of operating nominal voltage: 110-230 V_{AC}.
- Range of current motor settings: 1.2-4.8 A.
Setting up to four possible values by means of dip-switches.
- Microstepping: 1600, 3200, 6400 and 12800 steps/revolutions
Setting by means of dip-switches.
- Various encoder resolution available.
- Automatic current reduction at motor standstill.
- Protections:
 - Protection against under-voltage and over-voltage.
 - Protection against a short-circuit at motor outputs.
 - Overtemperature protection with thermal sensor.
 - Open motor/encoder phase.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction.
- Easy wiring with plug-in connectors .
Maximum compactness.
- Optoinsulated digital I/O to ensure best EM noise immunity.
- Coupling with stepping motors rated for high insulation is mandatory.
- Warranty: 24 months.



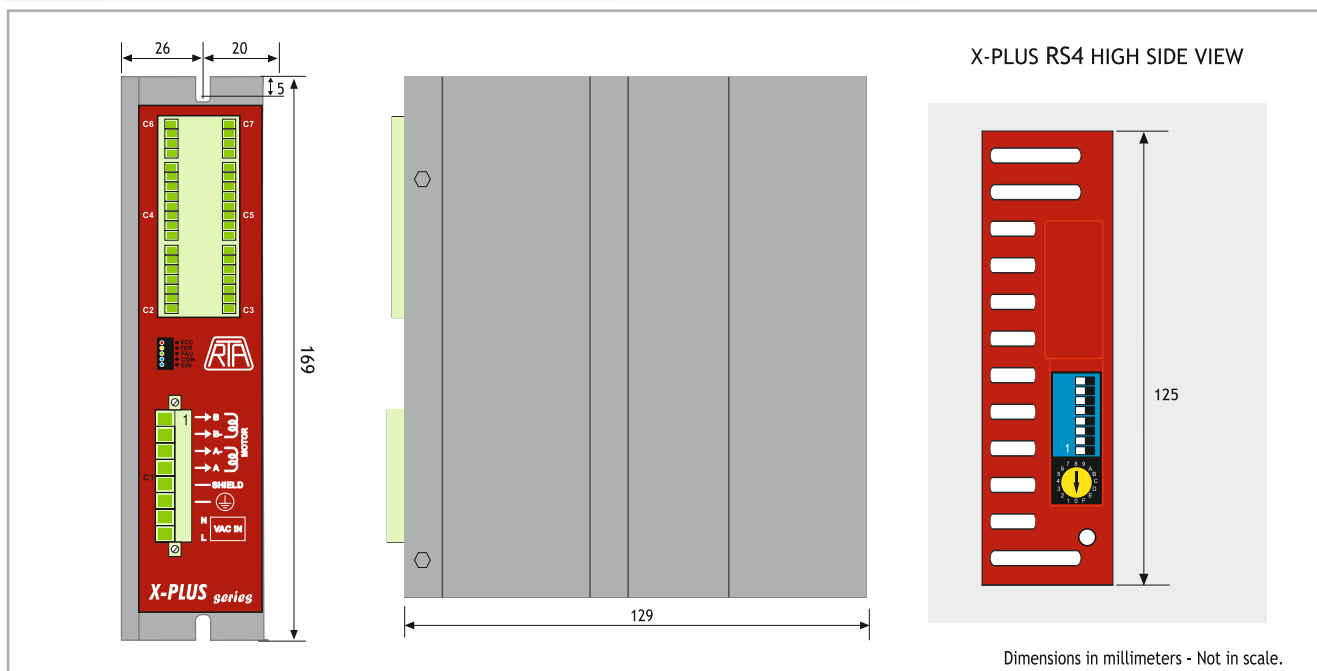
POWER AND LOGIC CONNECTIONS



SCAN THE QR CODE TO WATCH A VIDEO ON THE AUTO-SYNC FUNCTION



MECHANICAL DIMENSIONS



Dimensions in millimeters - Not in scale.



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