

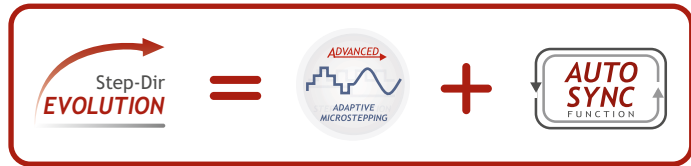
X-PLUS RS4 Series Drives

INTRODUCTION

- X-Plus RS4 is a new model of RTA flagship high-power stepping motor drive with Step & Direction interface.
- The embedded Auto-Sync function with encoder enhances the drive features and optimizes the motor performances.
- It is the ideal solution for advanced applications requiring high performances, high precision in the motor behaviour and accuracy in control positioning.

HIGHLIGHTS

- Embedded Auto-Sync function with encoder, featuring a closed loop positioning.
- SIL3-PLe STO safety function.
- Easy parameter setting via DIP switches.
- Integrated system for back EMF energy dissipation with optional external resistor.
- Advanced diagnostic tools.
- Zero index searching function.



STO FUNCTION FEATURES

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

SIL3
SAFE TORQUE
OFF (STO)

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

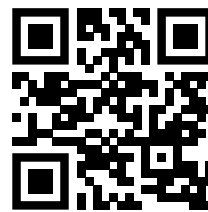
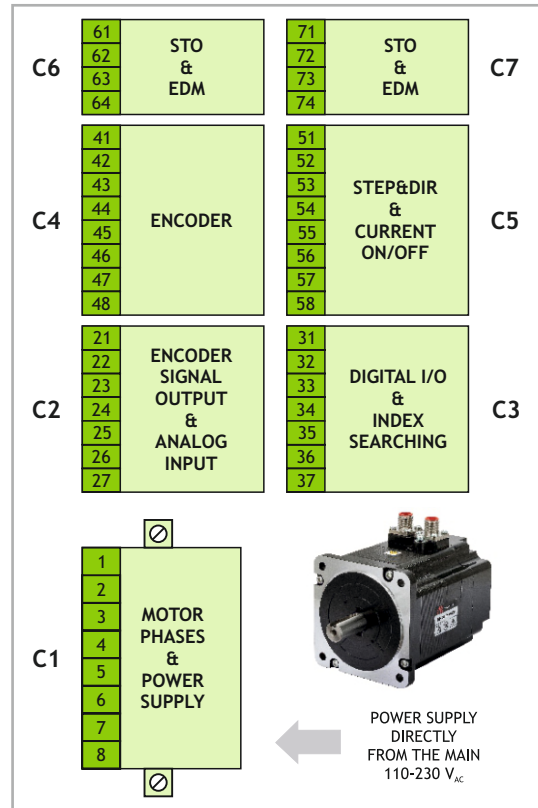
Series	Model	V _{AC} range (Volt)	I _{NP} min. (Peak value) (Amp)	I _{NP} max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	RS4	110 to 230 +/- 15%	1.2	4.8	169x129x46

TECHNICAL FEATURES

- Range of operating nominal voltage: 110-230 V_{ac}.
- Range of current motor settings: 1.2-4.8 Amp.
Setting up to four possible values by means of dip-switches.
- Microstepping: 1600, 3200, 6400 and 12800 steps/revolution.
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.
- Boxed version with plug-in connectors.
Maximum compactness.
- Optoinsulated digital I/O to ensure best EM noise immunity.
- Modes of operation: STEP/DIR or analog input velocity setpoint
- Coupling with stepping motors rated for high insulation is mandatory.
- Warranty: 24 months.



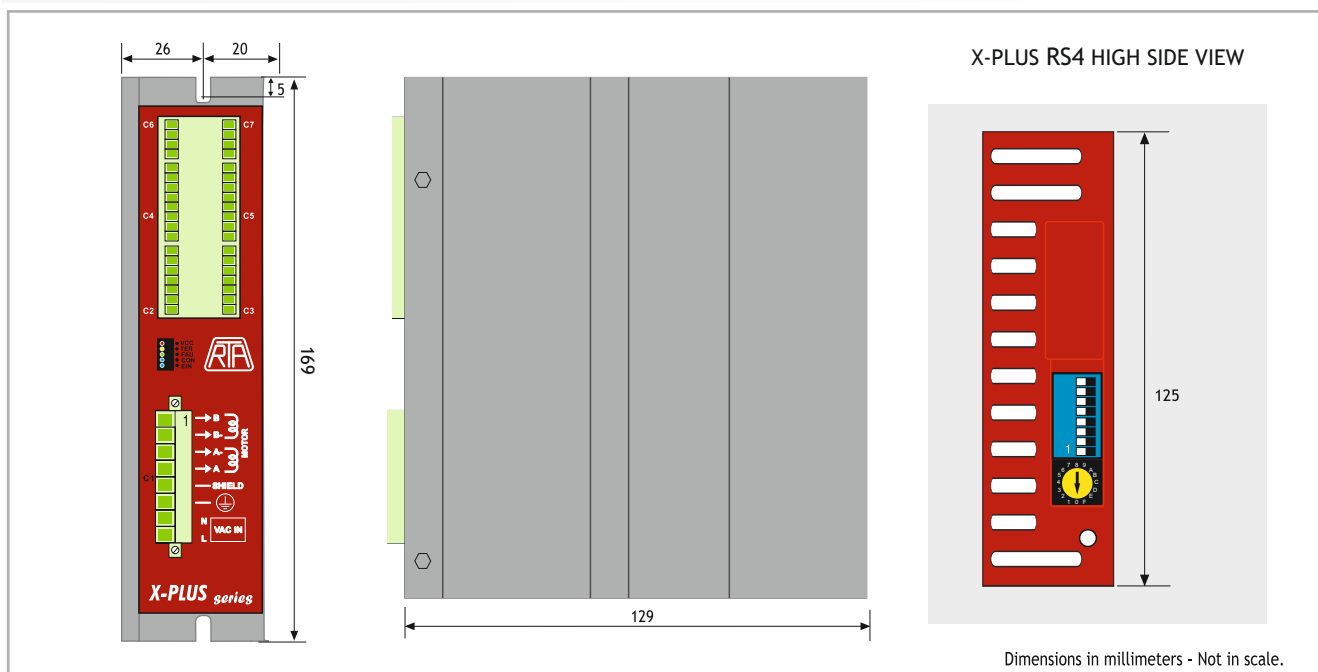
POWER AND LOGIC CONNECTIONS



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



MECHANICAL DIMENSIONS



R.T.A. s.r.l.
T: +39.0382.929855
www.rta.it
info@rta.it

R.T.A. Deutschland GmbH
T: +49.211.74966860
www.rta-deutschland.de
info@rta-deutschland.de

R.T.A. IBERICA
T: +34.936.388805
www.rta-iberica.es
info@rta-iberica.es

R.T.A. INDIA Pvt LTD
T: +91.942.250.744.5
www.rta-india.in
info@rta-india.in