

# X-PLUS S Series Drives

## 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>) and STO function.
- 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.
- UL/CSA certified.

## HIGHLIGHTS

- STO [SIL3] function.
- Error Detection Monitor.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- 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.



## STO FUNCTION FEATURES

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

**SIL3**  
SAFE TORQUE  
OFF (STO)

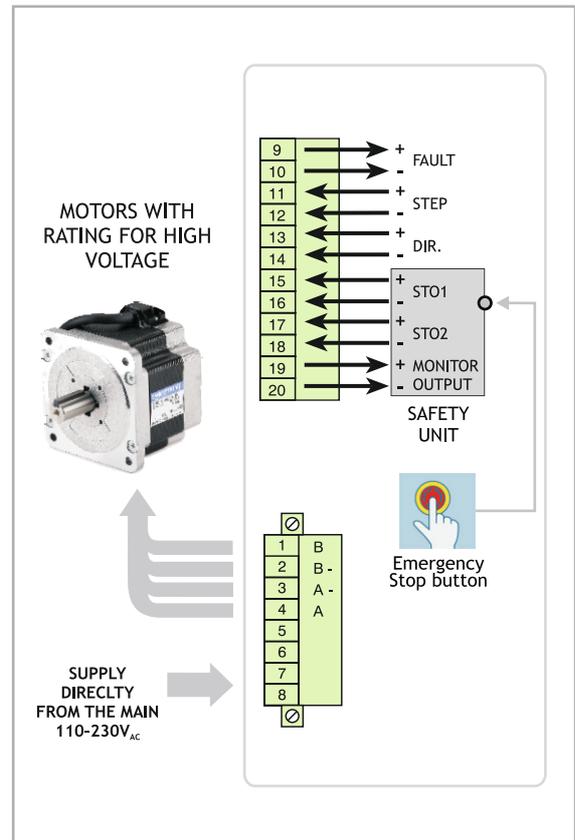
Series	Model	V <sub>AC</sub> range (Volt)	I <sub>NP</sub> min. (Peak value) (Amp)	I <sub>NP</sub> max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	S4	110 to 230 +/- 15%	2.4	4.0	152x129x46

## TECHNICAL FEATURES

- Possibility to switch off motor current by means of STO function.
- 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.
- 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.
- 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.
- UL/CSA certified.
- Warranty: 24 months.



## POWER AND LOGIC CONNECTIONS

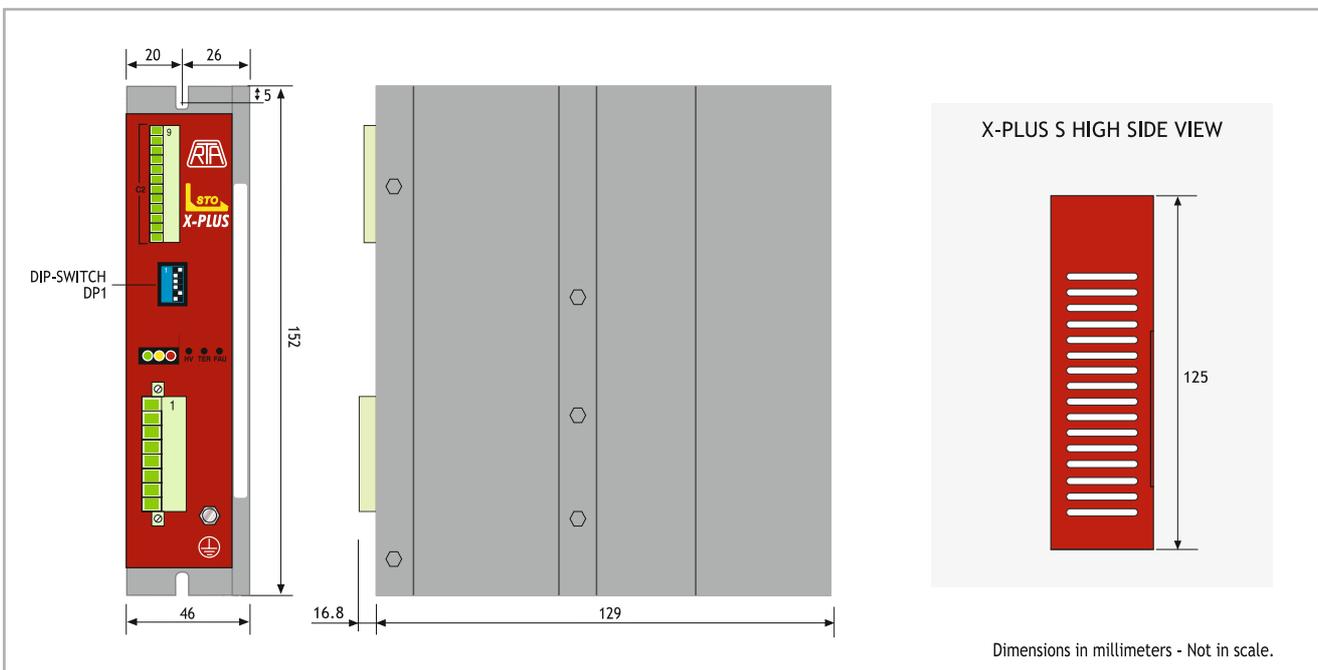


## STO FUNCTION FEATURES

- Safe Torque Off (STO) function [SIL3]
- Error Detection Monitor



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