

X-PLUS S4.1 Series Drives

INTRODUCTION

- New series bipolar microstep stepping motor drive with power input directly from the main AC supply (110 V_{AC} to 230 V_{AC}), with STO function, 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.
- UL/CSA certified.

HIGHLIGHTS

- STO [SIL3] function.
- Error Detection Monitor.
- 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.



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STO FUNCTION FEATURES

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

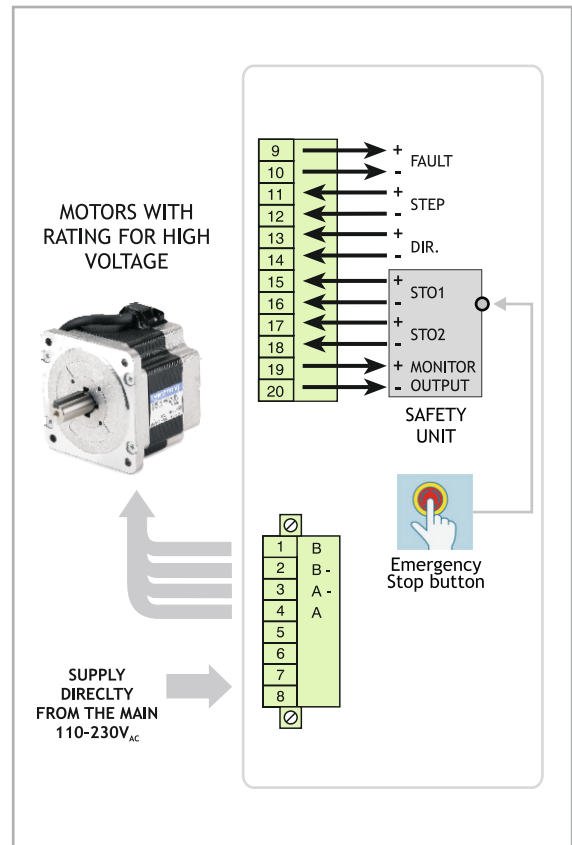
SIL3
SAFE TORQUE
OFF (STO)

Series	Model	V _{AC} range (Volt)	I _{NP} min. (Peak value) (Amp)	I _{NP} max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	S4.1	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_{AC}.
- 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 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.
- 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.
- UL/CSA certified.
- Warranty: 24 months.

POWER AND LOGIC CONNECTIONS

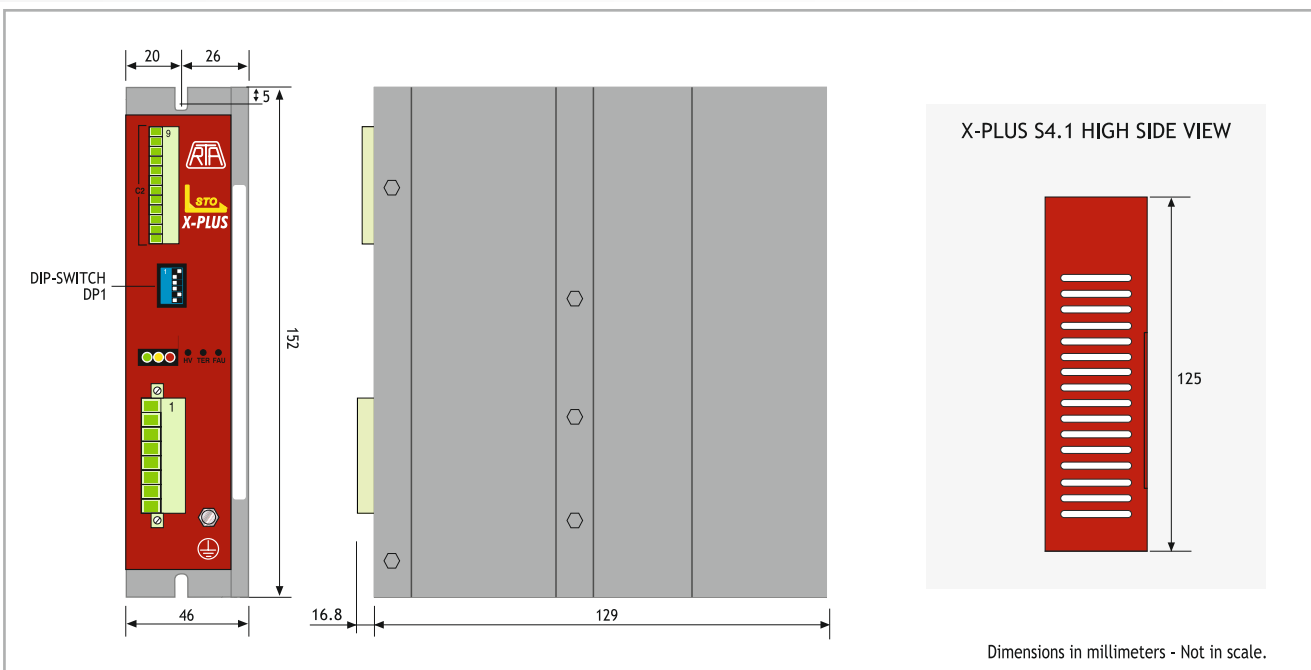


STO FUNCTION FEATURES

- Safe Torque Off (STO) function [SIL3]
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INGOMBRI MECCANICI



Dimensions in millimeters - Not in scale.



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