

**NEW!**

# 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<sub>AC</sub> to 230 V<sub>AC</sub>), 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.

## 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.



## STO FUNCTION FEATURES

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

**SIL3**  
SAFE TORQUE  
OFF (STO)

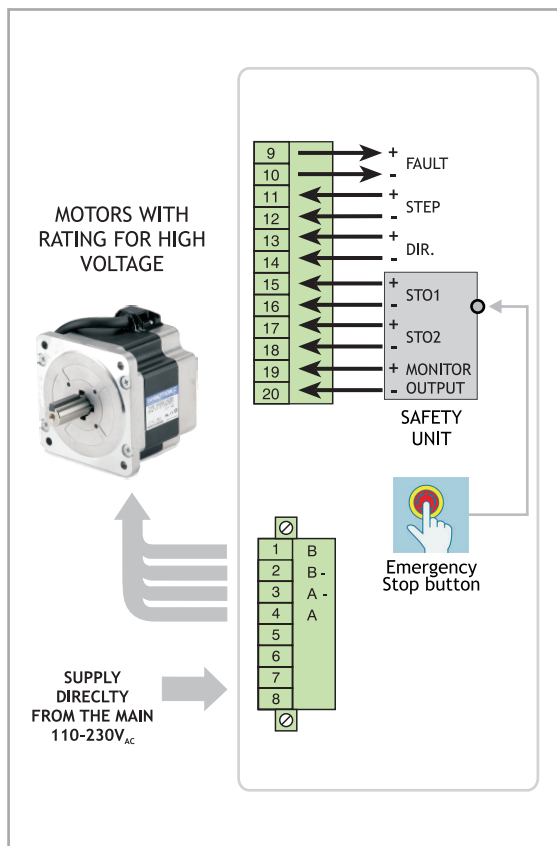
Series	Model	V <sub>AC</sub> range (Volt)	I <sub>NP</sub> min. (Peak value) (Amp)	I <sub>NP</sub> max. (Peak value) (Amp)	Dimensions (mm)
X-PLUS	S4.1	110 to 230 +/- 15%	2.4	4.0	152x129x46

# NEW!

## 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 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.
- Warranty: 24 months.

## POWER AND LOGIC CONNECTIONS

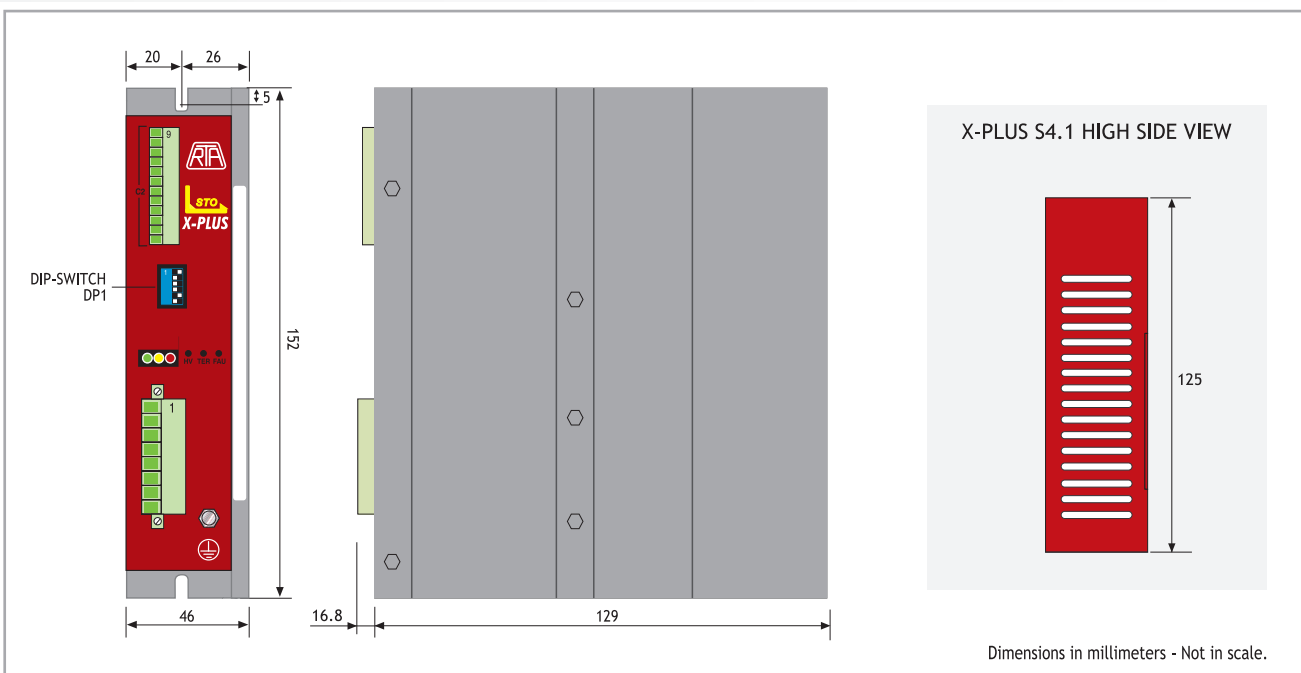


## STO FUNCTION FEATURES

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



## INGOMBRI MECCANICI



R.T.A. s.r.l.  
Via E. Mattei - Fraz. Divisa  
27020 MARCIGNAGO (PV) ITALY  
Tel. +39.0382.929.855 - Fax +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzer Straße 34  
40599 DÜSSELDORF (Germany)  
Tel. +49.211.749.668.60 - Fax +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA-Motion Control Systems S.L.  
C/Generalitat 22, 1° 3°  
08850 GAVA - BARCELONA (Spain)  
Tel. +34.936.388.805 - Fax +34.936.334.595  
www.rta-iberica.es