

# PLUS E Series Drives



MOTOR LOSS OF SYNCHRONISM  
CONTROL FUNCTION  
("CLOSED LOOP")



## INTRODUCTION

- Stepping motor drives series with Step & Direction interface suitable for driving two-phase stepping motors, with four, six or eight terminals.
- Optimized for driving R.T.A. EM series stepping motors with encoder (86 mm and 60 mm flange sizes).
- Target: applications requiring EM stepping motors. Control in a standard way ("OPEN LOOP") but also give an alarm in case of loss of synchronism ("CLOSED LOOP").

## HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Setting of the sensitivity of the loss of synchronism alarm system.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- External fans not needed: ideal both for mounting inside a metallic electrical cabinet and for stand-alone applications.

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)
PLUS	E3	28 to 62	2.4	8.0	152x129x46
PLUS	E4	55 to 100	1.9	6.0	152x129x46

## TECHNICAL FEATURES

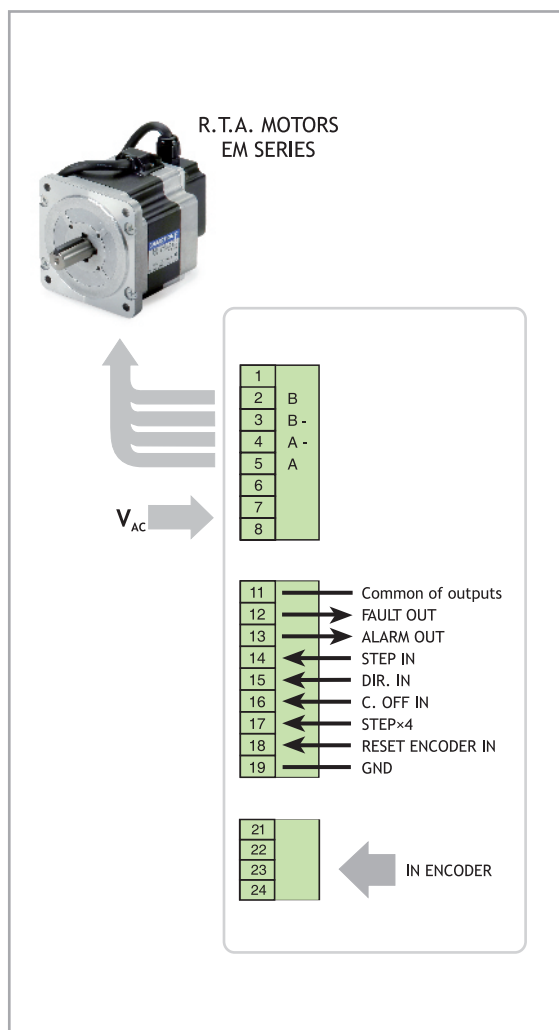
- Range of operating voltages: 28-100 V<sub>AC</sub>.
- Range of current: 1.9-8.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overheating protection with thermal sensor.
- High efficiency CHOPPER with MOSFET final stage output.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed
- Alarm memory by use of yellow blinking led.
- Version: boxed, equipped with crimp-type connectors. Maximum compactness.
- Warranty: 24 months.



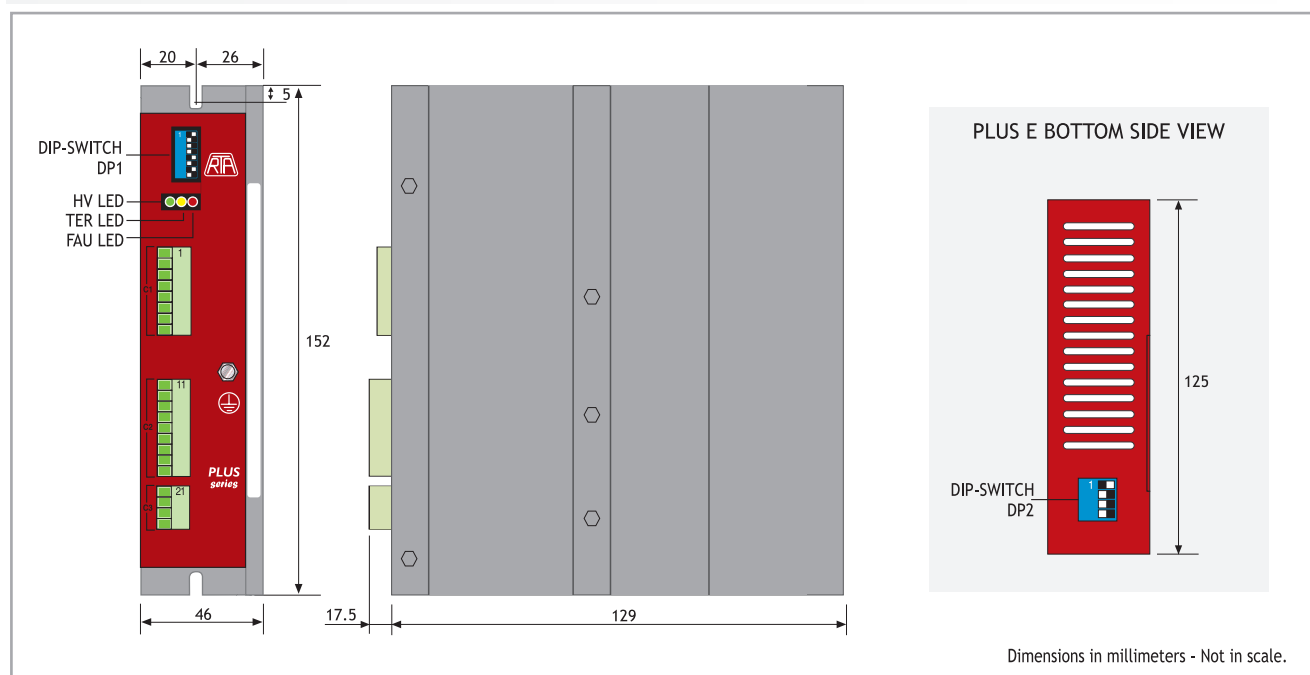
## MOTOR LOSS OF SYNCHRONISM CONTROL FUNCTION

- Input for the connection of the R.T.A. motors EM series encoder (NEMA 34 and 60 mm flange size).
- Output for the loss of synchronism alarm.
- Setting, by means of dip-switch, of the sensitivity of the loss of synchronism alarm system.

## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



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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, 1º 3º  
08850 GAVA - BARCELONA (Spain)  
Tel. +34.936.388.805 - Fax +34.936.334.595  
www.rta-iberica.es