PLUS E Series Drives

STEP/DIR

STEP & DIRECTION

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_{AC} range	I_{NP} min. (Peak value)	I_{NP} max. (Peak value)	Dimensions
		(Volt)	(Amp)	(Amp)	(mm)
PLUS	E3	28 to 62	2.4	8.0	152x129x46
PLUS	E4	55 to 100	1.9	6.0	152x129x46

TECHNICAL FEATURES

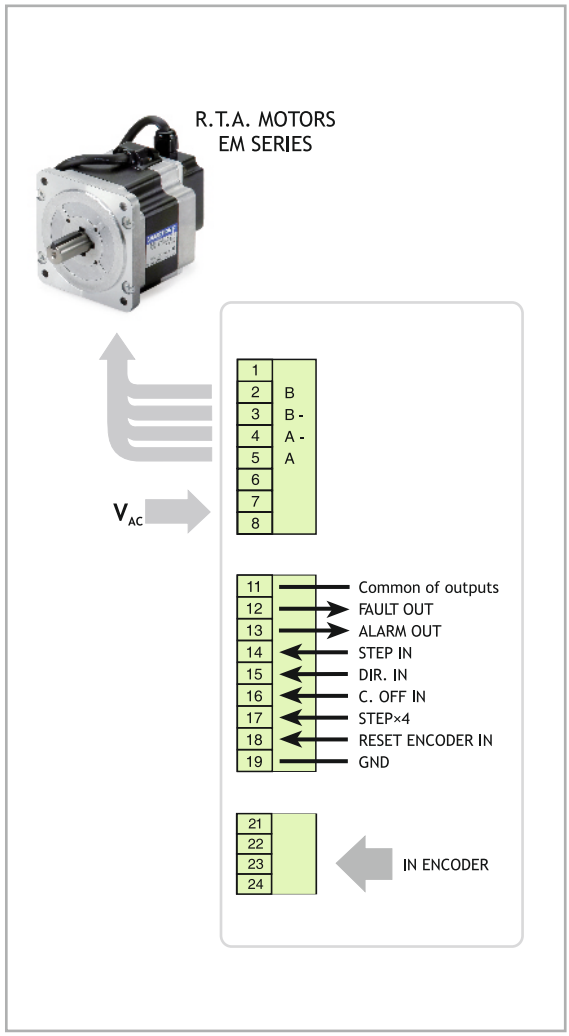
- Range of operating voltages: 28-100 $V_{AC.}$
- Range of current: 1.9-8.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor 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.

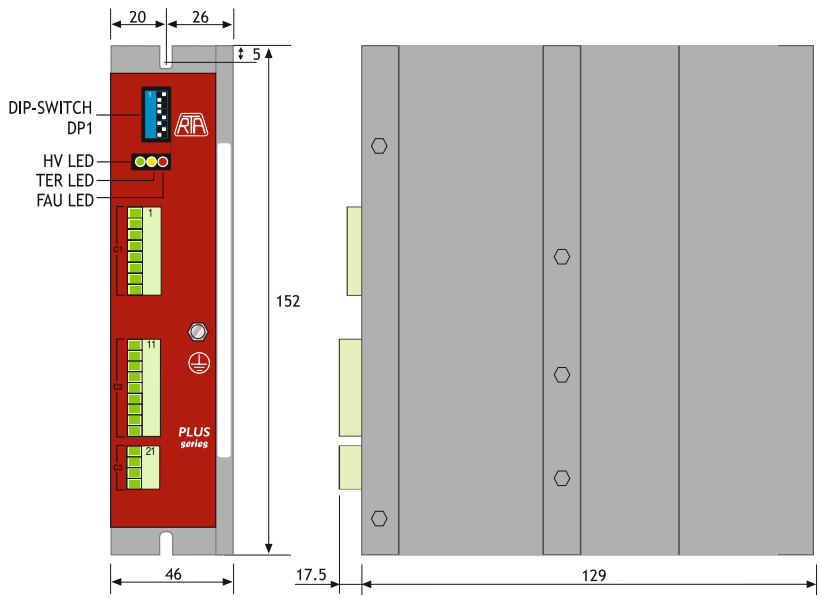
MOTOR LOSS OF SYNCHRONISM CONTROL FUNCTION

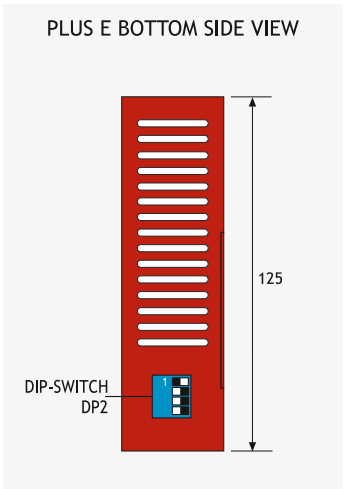
- Input for the connection of the R.T.A. motors EM series encoder (NEMA 34 and 60 mm flange size).
- Output for the loss of synchronism alarm.
- Setting, by means of dip-switch, of the sensitivity of the loss of synchronism alarm system.

POWER AND LOGIC CONNECTIONS



MECHANICAL DIMENSIONS





Dimensions in millimeters - Not in scale.

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