

PLUS E Series Drives

PRELIMINARY

GENERAL DESCRIPTION

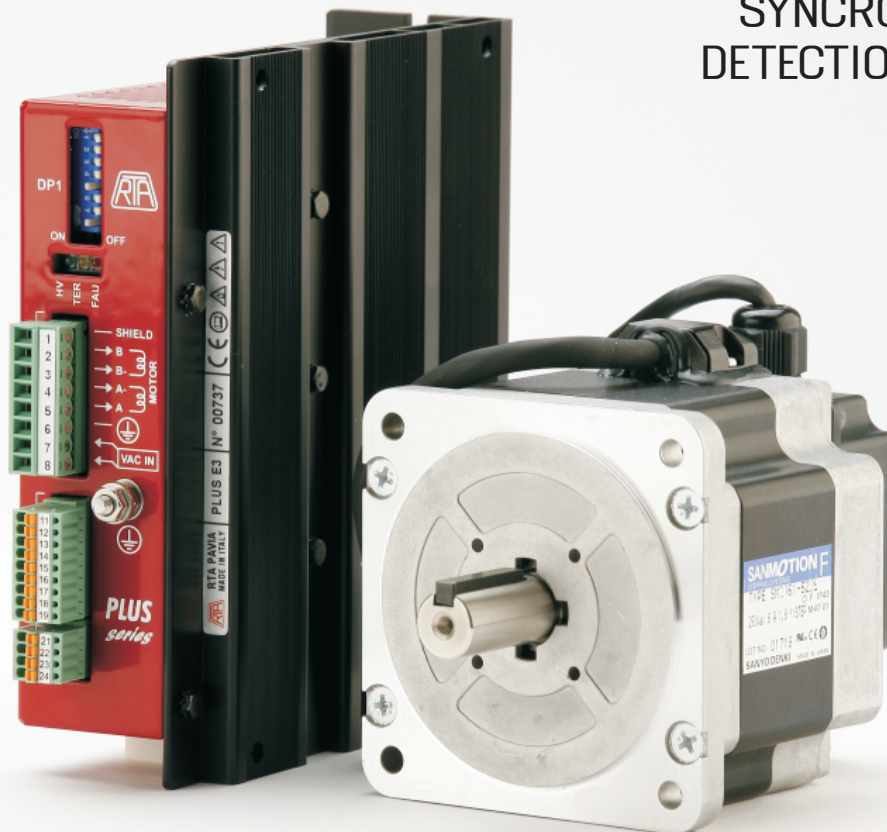
PLUS E is the name of a series of *ministep* bipolar chopper drives intended for driving R.T.A. EM series stepping motors with encoder.

PLUS E series drives can control EM stepping motors in a standard way but also give an alarm in case of loss of synchronism.

The drives are housed in a metallic box, 152 x 129 x 46 mm format, suitable for wall mounting. They do not need external fans: accordingly, they are ideal for mounting inside a metallic electrical cabinet as well as for stand-alone applications.

R.T.A. experience, together with a thorough design of both hardware and software, has led to a product offering high reliability, premium performances and great ease of use at competitive costs.

SYNCRONISM LOSS DETECTION FUNCTION



Motion Control Systems

PRELIMINARY

TECHNICAL FEATURES

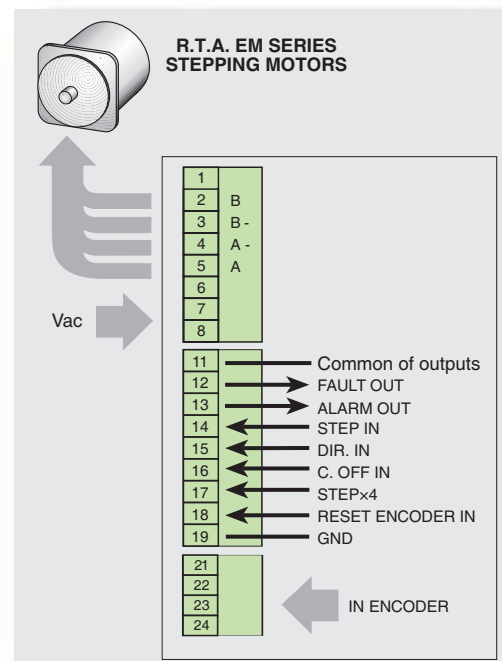
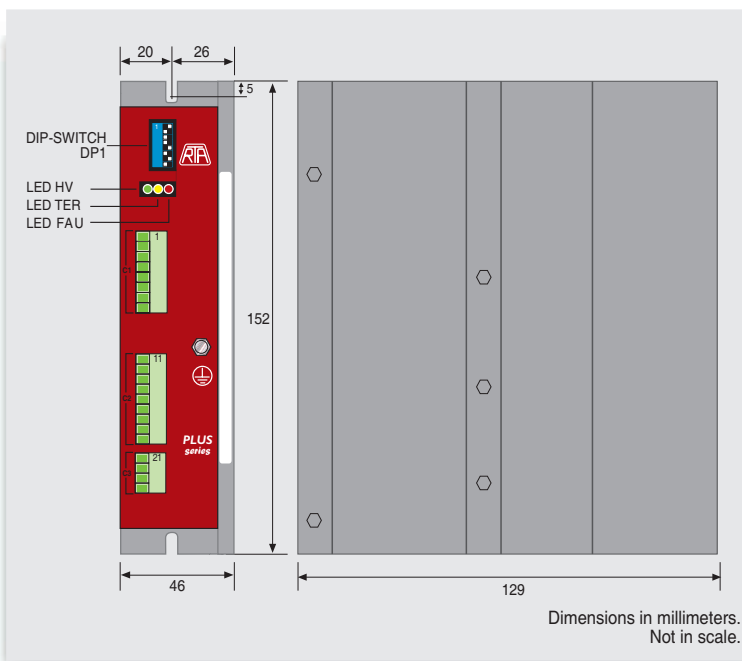
PLUS SERIES DRIVES FEATURES

- ▶ Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- ▶ Electronic resonance damping circuit to ensure acoustic noise and mechanical vibrations reduction at low and medium speed.
- ▶ Wide range of operating voltages and motor phase currents setting. Up to eight possible equidistant values between I_{NF} min. and I_{NF} max. can be set by means of DIP-SWITCH.
- ▶ Automatic current reduction at motor standstill and possibility to switch off motor current with an external logic signal.
- ▶ Protection against a short circuit at motor outputs and protection against under-voltage and over-voltage.
- ▶ Overheating protection with thermal sensor.
- ▶ Alarm memory by use of yellow blinking led.
- ▶ High efficiency CHOPPER with MOSFET final stage output.
- ▶ AC power supply: internal rectifier.

MOTOR LOSS OF SYNCHRONISM CONTROL FUNCTION

- ▶ Inputs for the connection of the EM motors encoder.
- ▶ Output for the loss of synchronism alarm.
- ▶ Setting, by means of DIP-SWITCH, of the sensitivity of the loss of synchronism alarm system.

Models	V _{AC} range	I _{NF} min.	I _{NF} max.	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
PLUS E3	from 28 to 62	2.4	8	152x129x46



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