

PLUS E *Series Drives*

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 (86 mm and 60 mm flange sizes).

PLUS E series drives can control EM stepping motors in a standard way ("OPEN LOOP") but also give an alarm in case of loss of synchronism ("CLOSED LOOP").

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.



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



Motion Control Systems

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R.T.A. STEPPING MOTOR DRIVES catalogue

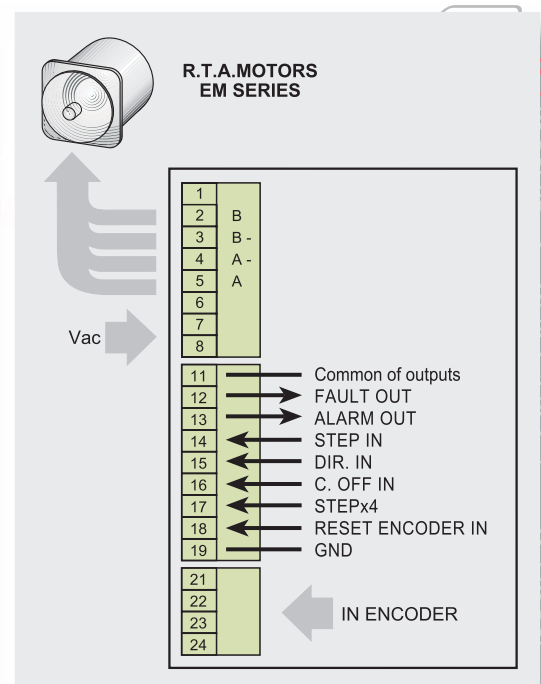
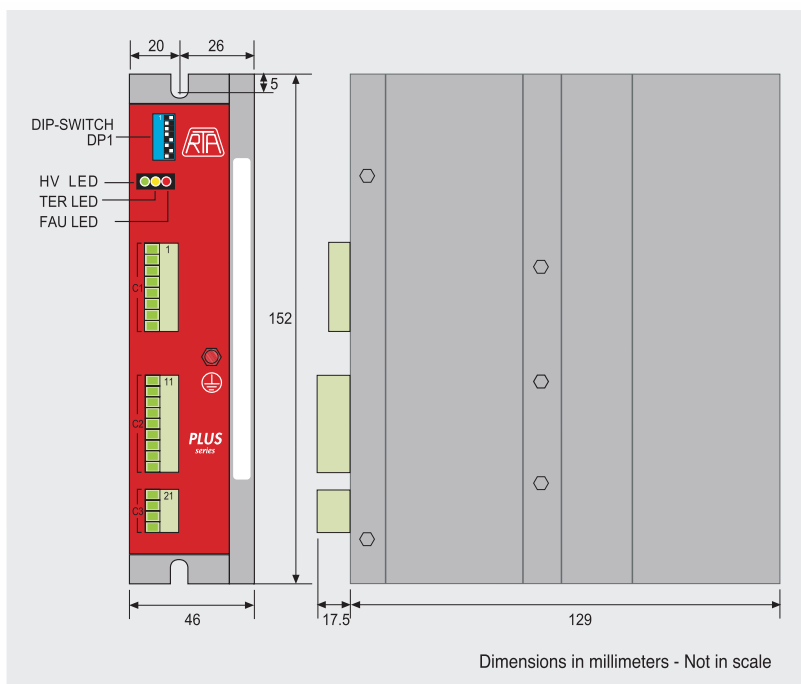
TECHNICAL FEATURES

- Wide range of operating voltages (in AC) and motor phase currents setting. Up to eight possible equidistant values between $I_{NF \text{ min.}}$ and $I_{NF \text{ max.}}$ can be set by means of DIP-SWITCH.
- Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- 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.
- Electronic resonance damping circuit to ensure acoustic noise and mechanical vibrations reduction at low and medium speed.

MOTOR LOSS OF SYNCHRONISM CONTROL FUNCTION

- Inputs for the connection of the R.T.A. motors EM series encoder (NEMA 34 and 60 mm flange sizes).
- Output for the loss of synchronism alarm.
- Setting, by means of DIP-SWITCH, of the sensitivity of the loss of synchronism alarm system.

Model	V _{AC} range	I _{NF} min. (Peak value)	I _{NF} max. (Peak value)	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
PLUS E3	28 to 62	2.4	8	152x129x46
PLUS E4	55 to 100	1.9	6	152x129x46



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