

# PLUS *Series Drives*

## GENERAL DESCRIPTION

**PLUS** is the name of a series of *ministep* bipolar chopper drives, suitable for driving two-phase stepping motors with four, six or eight terminals.

**PLUS** series 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 both for mounting inside a metallic electrical cabinet and for stand-alone applications.

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

The wide range of available current/voltage values optimizes the use of **PLUS** series drives with a wide variety of stepping motors and in a large number of applications.



Motion Control Systems

# R.T.A. STEPPING MOTOR DRIVES catalogue

## TECHNICAL 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 8 possible equidistant values between  $I_{NF \text{ min.}}$  and  $I_{NF \text{ max.}}$  can be set by means of DIP-SWITCH.
- ▶ Optically insulated inputs compatible with differential control signals.
- ▶ Automatic current reduction at motor standstill.
- ▶ Possibility to switch off motor current with an external logic signal.
- ▶ Protection against a short circuit at motor outputs.
- ▶ Protection against under-voltage and over-voltage.
- ▶ Overheating protection with thermal sensor.
- ▶ High efficiency CHOPPER with MOSFET final stage output.
- ▶ Operation with built-in oscillator with speed range from 14 to 450 rpm setting by means of DIP-SWITCH.
- ▶ Alarm memory by use of yellow blinking led.

Models	$V_{AC}$ range	$V_{DC}$ range	$I_{NF \text{ min.}}$	$I_{NF \text{ max.}}$	Dimensions
	(VOLT)	(VOLT)	(AMP)	(AMP)	(mm.)
PLUS A3		35 to 85	2.4	8	152x129x46
PLUS A4		70 to 140	1.9	6	152x129x46
PLUS B3	25 to 62		2.4	8	152x129x46
PLUS B4	50 to 100		1.9	6	152x129x46

