

# PLUS K *Series Drives*

## GENERAL DESCRIPTION

**PLUS K** is the name of a series of ministep bipolar chopper drives with an on-board programmable motion controller that can be used:

- for the interfacing, through RS485 serial line, with a central control system.
- as an independent unit.

**PLUS K** 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.

A broad range of available current/voltage values, specific instructions set and the availability of programmable inputs and outputs optimize the use of **PLUS K** series drives with a wide variety of stepping motors and in a large number of applications.



**Motion Control Systems**

[www.automotsys.com.au](http://www.automotsys.com.au)

# R.T.A. STEPPING MOTOR DRIVES catalogue

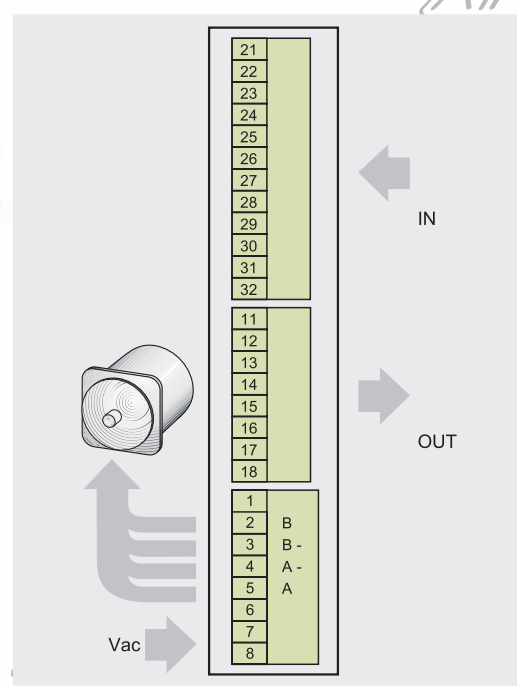
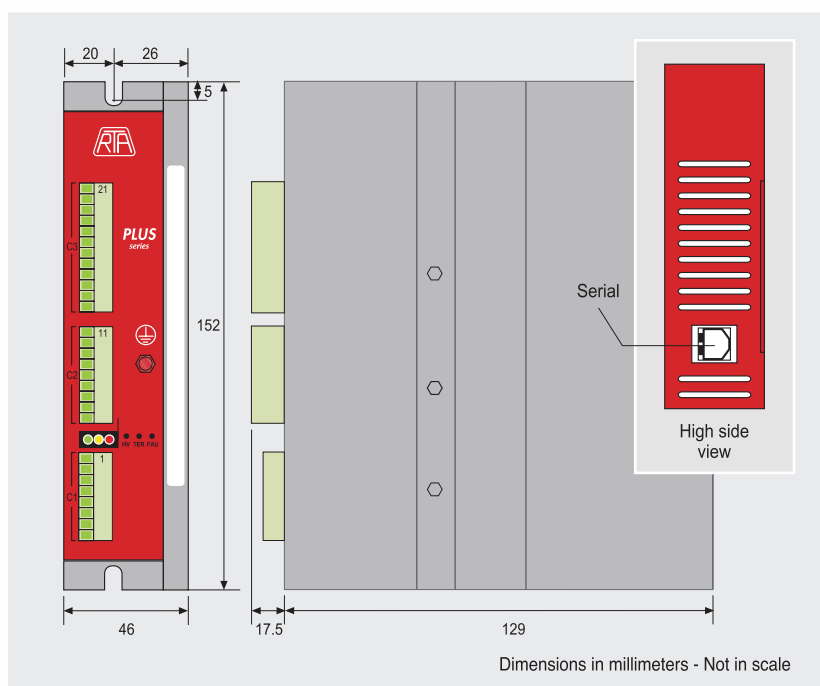
## TECHNICAL FEATURES

- Wide range of operating voltages (in AC) and motor phase current setting. Up to 4 possible equidistant values, between  $I_{NF \text{ min.}}$  and  $I_{NF \text{ m.}}$ , can be set by means of a serial line.
- Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution set by means of serial line.
- Electronic resonance damping circuit to ensure acoustic noise and mechanical vibrations reduction at low and medium speed.

## PROGRAMMABLE MOTOR CONTROLLER FEATURES

- Communication through RS485 serial line; up to 48 drives can be connected on a single serial line. One instruction can be broadcasted to all drives.
- Possibility to control the execution of 16 previously stored motion programs through hardware inputs. Accordingly, the drive can be used in stand-alone applications, without serial connection.
- Various types of available instructions, as for example: indexed run with ramp, free run with ramp, indexed run without ramp, run with a programmable braking distance, zero research. Space can be programmed in relative or absolute mode (linear or circular).
- Number of steps for indexed ramp up to  $\pm 8.338.607$  in relative or absolute mode, speed from 1 to 24.000 Hz in standard and increased resolution, ramp times from 16 to 1440 msec.
- Availability of instructions to develop motion programs as, for example: conditional jump, time delay, program block and recovery, I/O management, FOR NEXT loop.
- 11 inputs and 6 outputs, all optically insulated. Among them 3 inputs and 4 outputs are freely programmable.
- Memory of 128 instructions kept also at drive switched-off and three run time instructions.
- A utility working in Windows® is available in order to ease motion programs development by the user.
- Alarm memory by use of yellow blinking led.

Model	V <sub>AC</sub> range	I <sub>NF</sub> min. (Peak values)	I <sub>NF</sub> max. (Peak values)	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
PLUS K4	55 to 100	3.4	6	152x129x46
PLUS K5	28 to 62	4.4	8	152x129x46



## AUTOMATED MOTION SYSTEMS PTY. LTD.

MAILING ADDRESS:  
P.O. BOX 1240  
WANGARA DC  
W.A. 6947

PHONE: (08) 9309 1896  
FAX: (08) 9309 5671  
EMAIL: sales@automotsys.com.au  
INTERNET: http://www.automotsys.com.au

OFFICE ADDRESS:  
UNIT 2, 7 BARETTA RD.  
WANGARA, PERTH  
WESTERN AUSTRALIA