

NEW!

PLUS J Series Drives

GENERAL DESCRIPTION

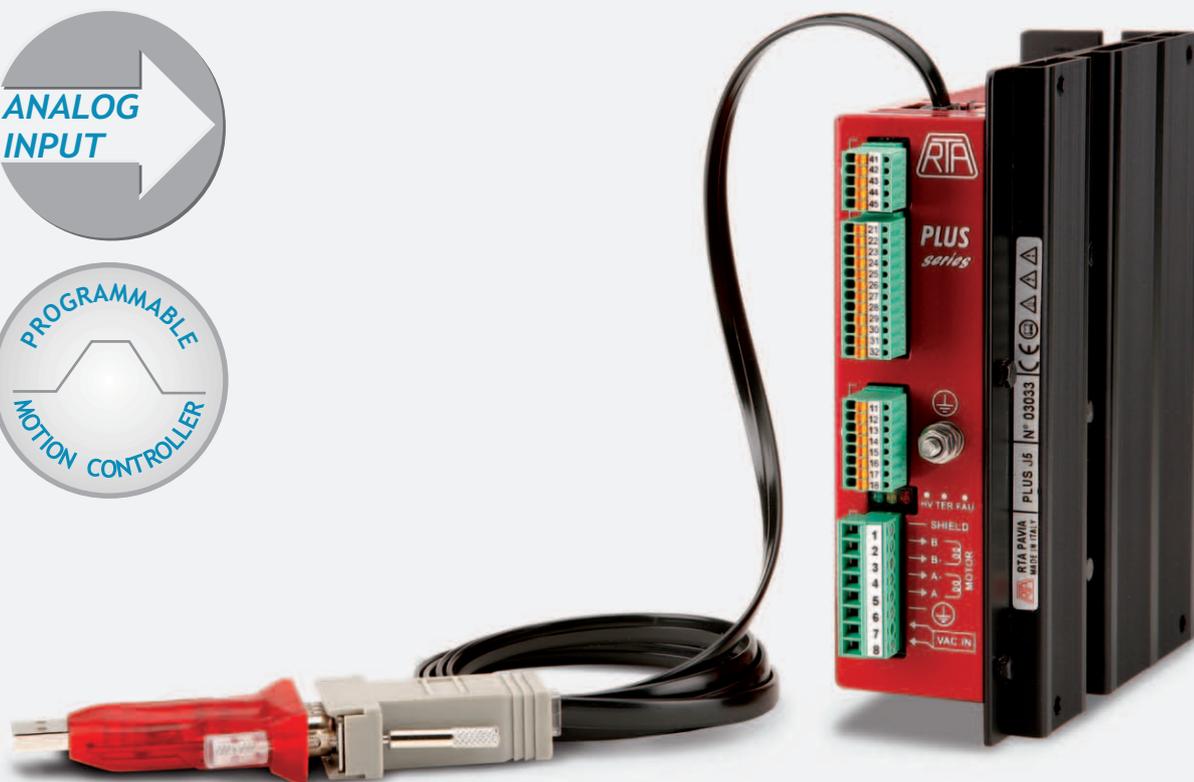
PLUS J is the name of a series of ministepped bipolar chopper drives with an on-board programmable controller that can be used:

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

The distinctive feature of **PLUS J** series drives is the presence of a dedicated analog input for the setting of motor target speed.

PLUS J series drives are housed into 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 J** series drives with a wide variety of stepping motors and in a large number of applications.



Motion Control Systems

www.automotsys.com.au

R.T.A. STEPPING MOTOR DRIVES catalogue

TECHNICAL FEATURES

- Wide range of operating voltages (AC) and motor phase current setting. Up to 4 possible equidistant values, between I_{NF} min. and I_{NF} max., 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.

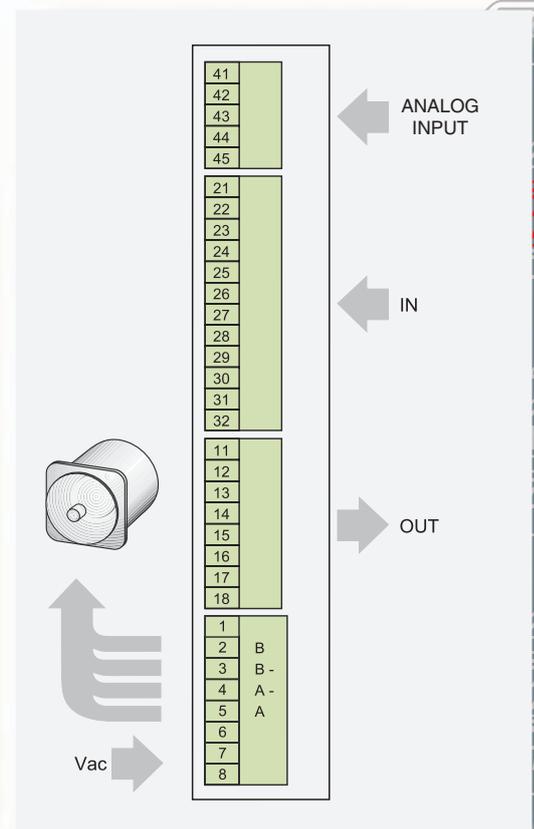
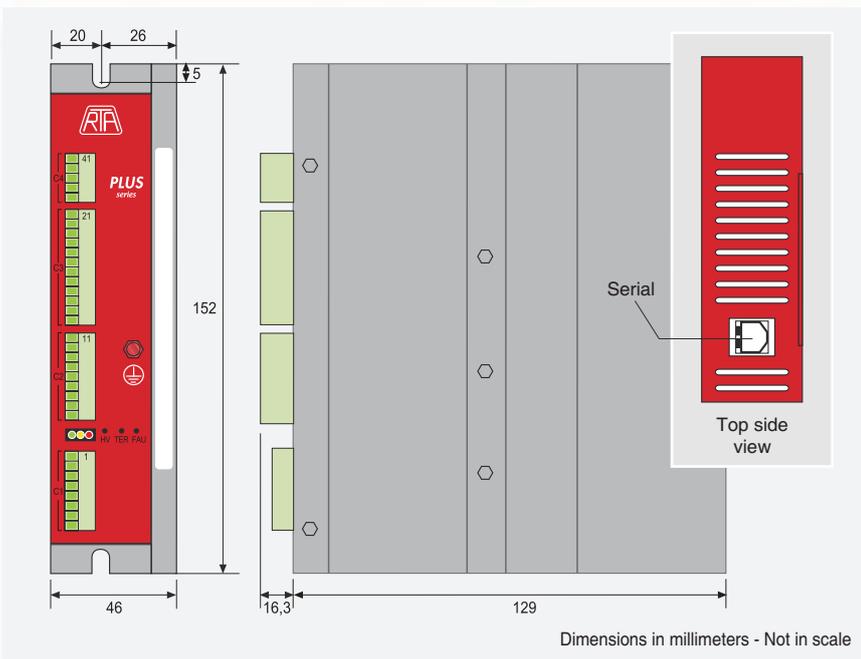
PROGRAMMABLE MOTOR CONTROLLER FEATURES

- 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.
- 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 resolution and from 1 to 48.000 Hz in high 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.
- 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.
- Possibility to control all programs previously stored or single instructions through the serial line.
- 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.

ANALOG INPUT TO CONTROL MOTOR SPEED

- Target speed setting by means of analog input sampled at the beginning of the motion sequence (before motor starts running).
- Input setting: 0-5 V_{DC} or 0-10 V_{DC}
- Frequency range:
 - 3000 Hz - 48000 Hz (with ramp)
 - 0 Hz - 4100 Hz or 0 Hz - 510 Hz (without ramp)
- Possibility of matching with potentiometers of 2.2 KOhm.

Model	V_{AC} range	I_{NF} min. (Peak value)	I_{NF} max. (Peak value)	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
PLUS J5	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