

INTRODUCTION

- Series of ministep bipolar chopper drives with an onboard programmable motion controller that can be used:
 - for the interfacing, through RS485 serial line, with a central control system
 - as an independent unit.
- Compact system equipped with dedicated instructions optimized for advanced motion control applications.
- Target: medium power applications needing AC power supply and a programmable motion controller.

HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Communication through RS485 serial line.
- Programmable motion controller allowing connection up to 48 drives on a single serial line.
- External fans not needed: ideal both for mounting inside a metallic electrical cabinet and for stand-alone applications.

Series	Model	V _{AC} range	I _№ min. (Peak value)	I _{NP} max. (Peak value)	Dimensions
		(Volt)	(Amp)	(Amp)	(mm)
PLUS	K4	55 to 100	3.4	6.0	152x129x46
PLUS	К5	28 to 62	4.4	8.0	152x129x46

TECHNICAL FEATURES

- Range of operating voltage: 28-100 V_{AC.}
- Range of current: 3.4-8.0 Amp. Setting up to four possible values by means of a serial line.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps/revolution. Setting by means of a serial line.
- Automatic current reduction at motor standstill.
- Protections:

-Protection against under-voltage and over-voltage. -Protection against a short-circuit at motor outputs. -Overtemperature protection.

- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- Optoinsulated inputs.
- External fans not needed.
- Version: boxed, equipped with crimp-type connectors. Maximum compactness.

ARRAN

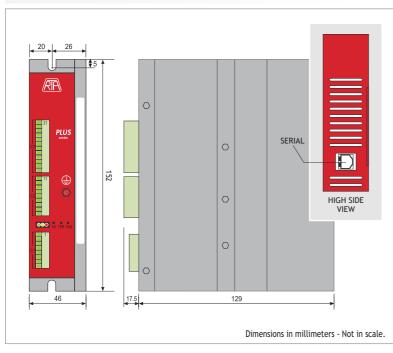
RANT

Warranty: 24 months.

PROGRAMMABLE MOTION CONTROLLER

- 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 ± 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.
- 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.
- 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 switchedoff 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.

MECHANICAL DIMENSIONS



POWER AND LOGIC CONNECTIONS

