CSD J Series Drives

NEW!

GENERAL DESCRIPTION

CSD J is the name of a series of ministep 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 ***CSD J*** series drives is the presence of a dedicated analog input for the setting of motor target speed.

CSD J series drives are housed into a metallic box, 90 x 99 x 30 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 availabilityof programmable inputs and outputs optimize the use of ***CSD J*** series drives with a wide variety of stepping motors and in a large number of applictaions.

ANALOG INPUT

PROGRAMMABLE MOTION CONTROLLER

RTA Motion Control Systems

www.automotsys.com.au

TECHNICAL FEATURES

- Wide range of operating voltages (DC) 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.

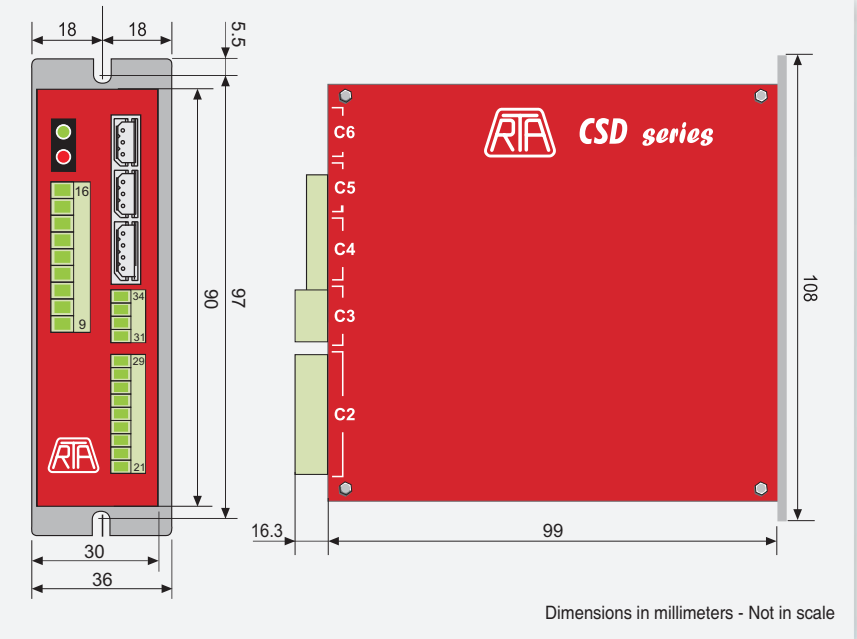
PROGRAMMABLE MOTOR CONTROLLER FEATURES

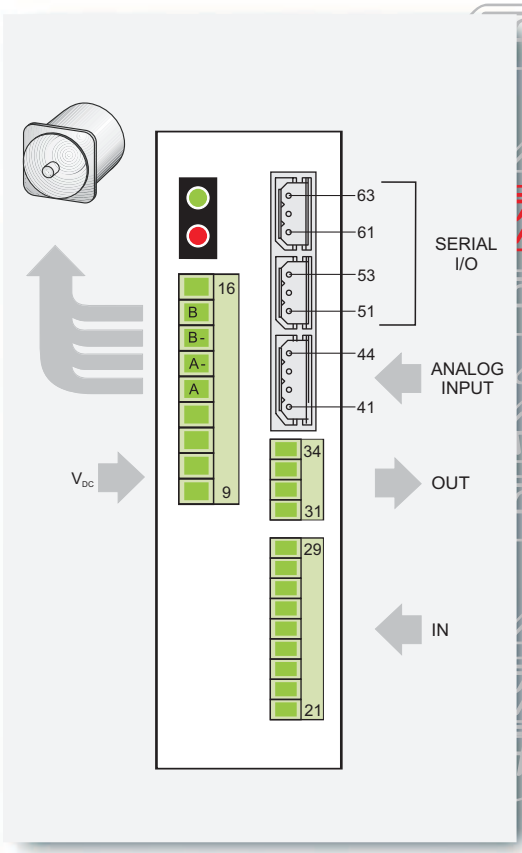
- Communication through RS485 serial line; up to 48 drives can be connected on a single serial line. One instruction can be broadcasted to all drives.
- Various types of available instructions, as for example: indexed run with ramp, free run with ramp, indexed run without ramp, run with a programmable braking distance, zero research. Space can be programmed in relative or absolute mode (linear or circular).
- Number of steps for indexed ramp up to ± 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 8 previously stored motion programs through hardware inputs. Accordingly, the drive can be used in stand-alone applications, without serial connection.
- Possibilty to control all programs previously stored or single instructions through the serial line.
- 8 inputs and 3 outputs, all optically insulated. Among them 1 input and 1 output 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_{DC} range	I_{NF} min. (Peak value)	I_{NF} max. (Peak value)	Dimensions
	(VOLT)	*(AMP)*	*(AMP)*	*(mm.)*
CSD J4	*24 to 48*	*2.6*	*4.4*	*90x99x30*





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