

# CSD Series Drives

## GENERAL DESCRIPTION

**CSD 92** and **CSD 94** is the name of a series of **ministep** bipolar chopper drives, suitable for driving two-phase stepping motors, with four, six or eight terminals.

**CSD 92** and **CSD 94** series drives are housed in a metallic box, 90 x 99 x 21 mm format suitable for wall mounting, by means of screws or mounting brackets separately supplied by R.T.A. as an option. They require a single DC supply voltage and do not need external fans: accordingly, they are ideal both for mounting inside a metallic electrical cabinet and for stand-alone applications.

The **ministep** operation, connected with a further electronic resonance damping facility, ensures excellent operating smoothness and low acoustic noise.

Pull-up and pull-down input signals ease interfacing with the most commonly used control systems.

R.T.A. experience, together with a careful design for these specific purposes, has led to a high reliability component, in spite of its very competitive cost.



Motion Control Systems

## TECHNICAL FEATURES

- ▶ Range of operation voltages from 24 to 45 VDC.
- ▶ Operation at 400, 800, 1600, 3200 steps/revolution.
- ▶ Motor phase current setting by means of a DIP-SWITCH. Up to eight possible values, between **0.7 A** and **4.4 A**, can be set.
- ▶ Pull-up or Pull-down inputs can be set.
- ▶ Automatic current reduction at motor standstill.
- ▶ Possibility to switch off motor current with an external logic signal.
- ▶ Protection against short circuit at motor outputs, under-voltage and over-voltage.
- ▶ Operation with a single external supply voltage.
- ▶ High efficiency CHOPPER with MOSFET final stage output.
- ▶ Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- ▶ Compact, easy to use and cost effective solution.

Model	V <sub>DC</sub> range	I <sub>NF</sub> min.	I <sub>NF</sub> max.	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
<b>CSD 92</b>	from 24 to 45	0.7	2.4	90x99x21
<b>CSD 94</b>	from 24 to 45	2.6	4.4	90x99x21

