



A-CSD 02/04

A-CSD 02.V/04.V



A-CSD 92/94



INTRODUCTION

- A series of bipolar microstep stepping motor drives, specifically developed for applications sensitive to acoustic noise and vibration.
- Significant evolution of the CSD series, preserving backward mechanical, electrical and applicative compatibility.
- Target: advanced applications requiring high precision, smoothness of movement and low acoustic noise.

HIGHLIGHTS

- Full digital microstepping drive.
- Adaptive microstepping up to a 3.200 step/rev.
- Intelligent management of the current profile that achieves good results in terms of smoothness of movement, low noise and vibration control.
- A highly sophisticated operation system, preserving anyhow the traditional user friendly ease of use of R.T.A. drives.

Model	Driver Type	V _{DC} range	I _{NP} min. (Peak value)	I _{NP} max. (Peak value)	Micro Stepping	Dimensions
<i>ADVANCED CSD</i>		(VOLT)	(AMP)	(AMP)	(steps/rev)	(mm.)
A-CSD 02 (A-CSD 02.V)*	Step & Direction	24 to 48	0.7	2.4	3.200	card 92x85x22
A-CSD 04 (A-CSD 04.V)*	Step & Direction	24 to 48	2.6	4.4	3.200	card 92x85x23
A-CSD 92	Step & Direction	24 to 48	0.7	2.4	3.200	box 99x90x21
A-CSD 94	Step & Direction	24 to 48	2.6	4.4	3.200	box 99x90x21

* A-CSD 02.V and A-CSD 04.V versions are equipped with screw-type connectors.

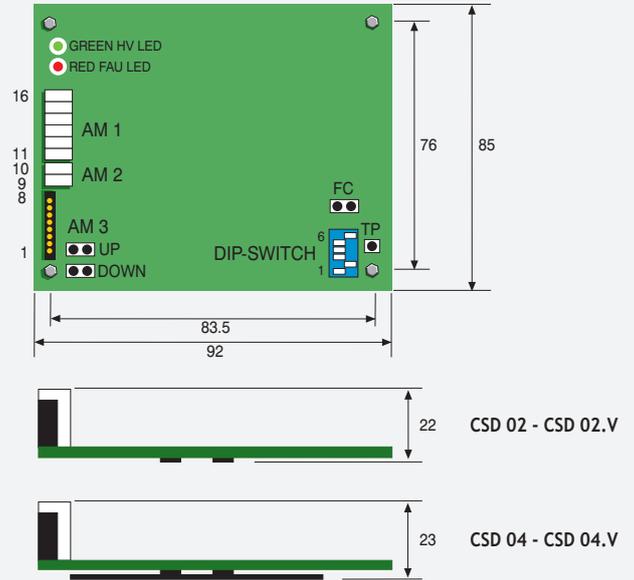
TECHNICAL FEATURES

- Range of operating voltage: 24-48 V_{dc}.
- Range of current: 0.7-4.4 Amp. Setting up to eight possible values by means of a dip-switch.
- Microstepping: 400, 800, 1.600 and 3.200 steps/revolution. Setting by means of a dip-switch.
- Automatic current reduction at motor standstill.
- Management of the current profile setting by means of a dip-switch.
- Protections:
 - Protection against under-voltage and over-voltage.
 - Protection against a short-circuit at motor outputs.
 - Overtemperature protection with thermal sensor.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction.
- Available versions: boxed/open frame, crimp-type/screw-type connectors. Maximum compactness.
- Warranty: 24 months.

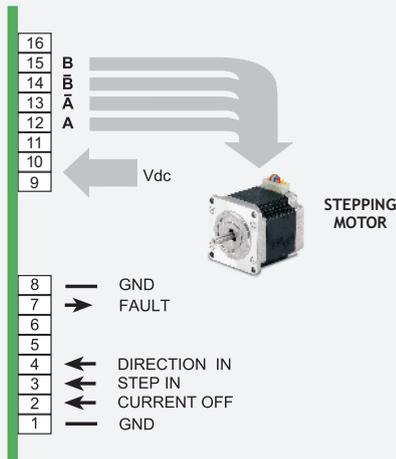


MECHANICAL DIMENSIONS

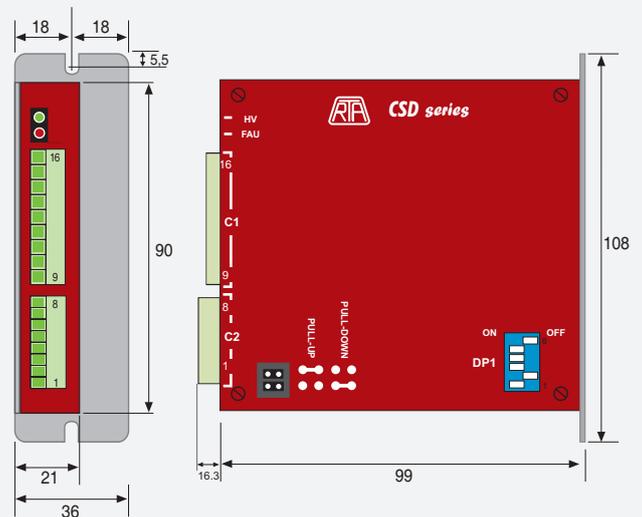
A-CSD 02 / 04



POWER AND LOGIC CONNECTIONS



A-CSD 92 / 94



Dimensions in millimeters - Not in scale.

R.T.A. PRODUCTS STRENGTHS

- Great reliability, highly recognized in the field.
- Ease of use combined with great simplicity in the setup phase.
- A track record of over 30 years in stepping drives production, with over 650,000 units sold in 39 countries worldwide.
- Excellent pre and post sales support through qualified staff and strict corporate procedures.

