

## INTRODUCTION

- A series of bipolar microstep stepping motor drives, specifically developed for applications sensitive to acoustic noise and vibration.
- Significant evolution of the NDC 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 12.800 step/rev (1/64).
- 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 <sub>DC</sub> range	I <sub>NP</sub> min. (Peak value)	I <sub>NP</sub> max. (Peak value)	Micro Stepping	Dimensions
<i>ADVANCED</i> NDC		(VOLT)	(AMP)	(AMP)	(steps/rev)	(mm.)
A-NDC 04 (A-NDC 04.V)*	Step & Direction	24 to 85	0.6	2.0	12.800	card 101x94x25
A-NDC 06 (A-NDC 06.V)*	Step & Direction	24 to 85	1.9	6.0	12.800	card 101x94x25
A-NDC 94	Step & Direction	24 to 85	0.6	2.0	12.800	box 110x108x34
A-NDC 96	Step & Direction	24 to 85	1.9	6.0	12.800	box 110x108x34

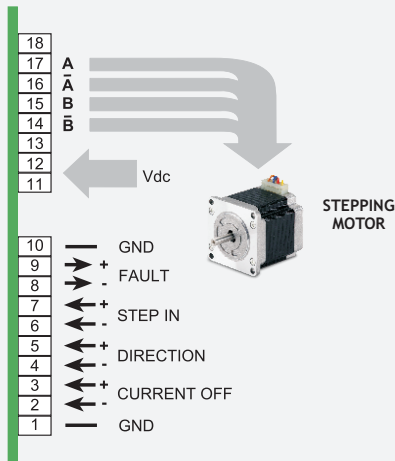
\* A-NDC 04.V and A-NDC 06.V versions are equipped with screw-type connectors.

## TECHNICAL FEATURES

- Range of operating voltage: 24-85 V<sub>dc</sub>.
- Range of current: 0.6-6 Amp. Setting up to eight possible values by means of a dip-switch.
- Microstepping: 400, 800, 1.600, 3.200, 6.400 and 12.800 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.
- Optoinsulated inputs to ensure best EM noise immunity.
- Warranty: 24 months.

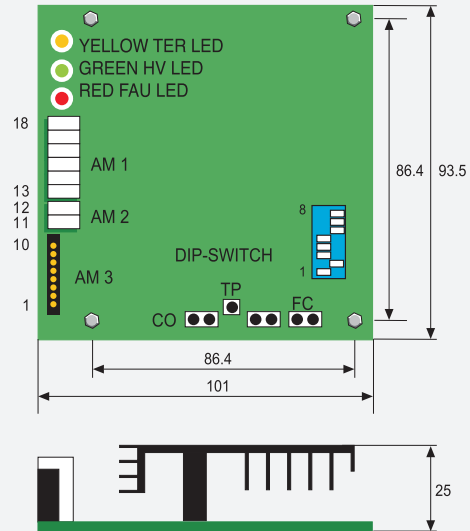


## POWER AND LOGIC CONNECTIONS

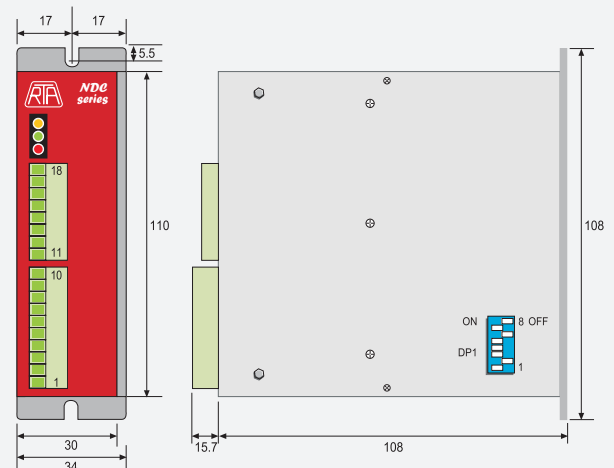


## MECHANICAL DIMENSIONS

### A-NDC 04 / 06



### A-NDC 94 / 96



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.

