

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 _{DC} range | I _{NP} min. (Peak value) | I _{NP} 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 |

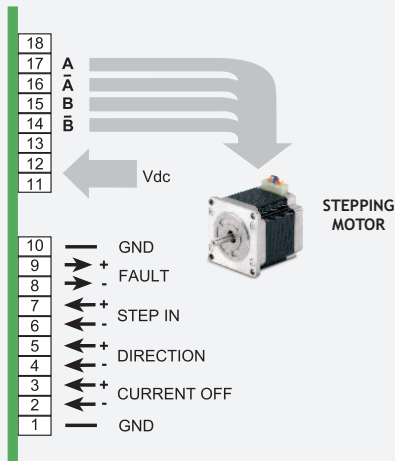
* A-NDC 04.V and A-NDC 06.V versions are equipped with screw-type connectors.

TECHNICAL FEATURES

- Range of operating voltage: 24-85 V_{dc}.
- 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.

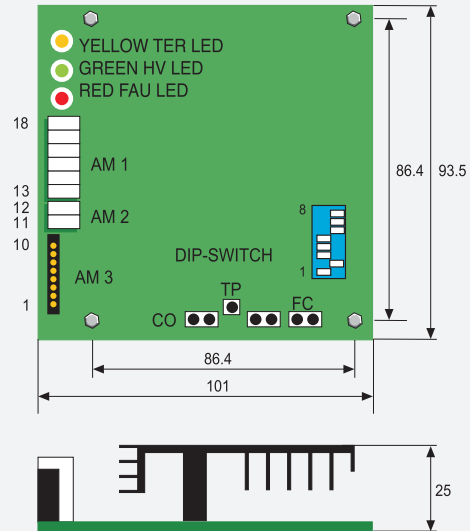


POWER AND LOGIC CONNECTIONS

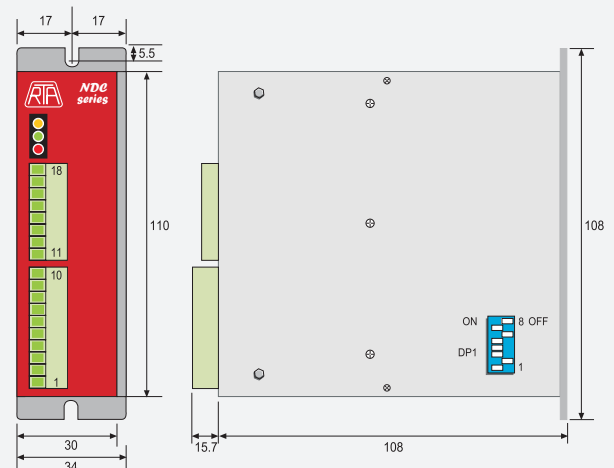


MECHANICAL DIMENSIONS

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.

