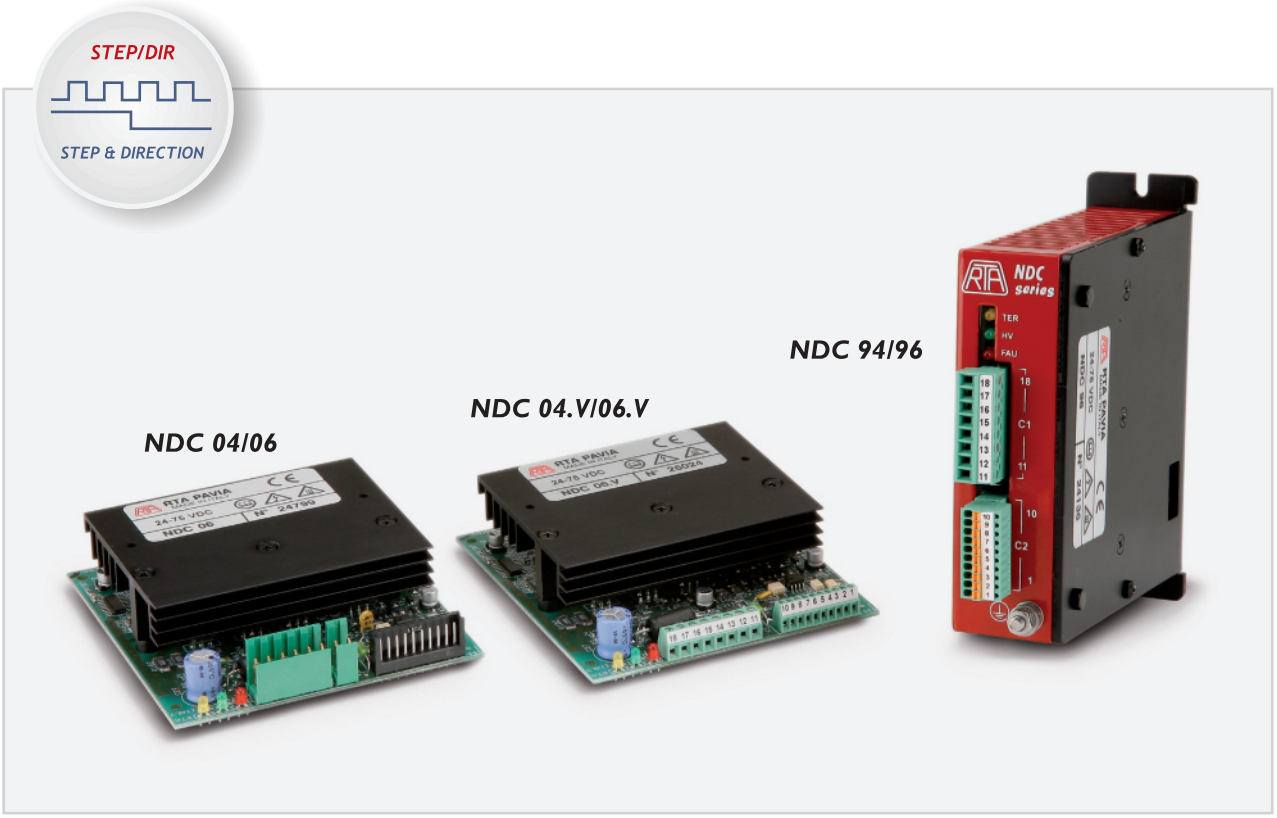
NDC Series Drives



INTRODUCTION

- Series of ministep bipolar chopper drives, suitable for driving medium power two-phase stepping motors, with four, six or eight terminals.
- Compact, easy to use and cost effective solution. This system is designed for easy mounting inside a metallic electrical cabinet.
- Target: medium and medium-low power applications without special configuration requirement, but needing great dynamic performance, high reliability, low acoustic noise and mechanic vibrations reduction.

HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- Separated connectors for logic signals and power connections.
- Optoinsulated and differential input and output signals ease interfacing with the most commonly used control systems.

Series	Model	V_{DC} range	I_{NP} min. (Peak value)	I_{NP} max. (Peak value)	Dimensions
		(Volt)	(Amp)	(Amp)	(mm)
NDC	04 - 04.V*	24 to 75	0.6	2.0	101x94x25
NDC	06 - 06.V*	24 to 75	1.9	6.0	101x94x25
NDC	94	24 to 75	0.6	2.0	110x108x34
NDC	96	24 to 75	1.9	6.0	110x108x34

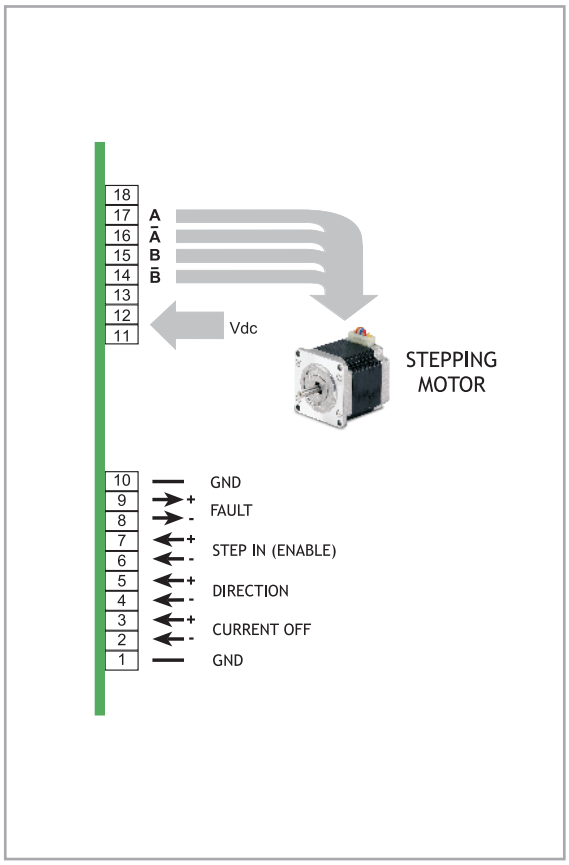
* NDC 04.V and NDC 06.V versions are equipped with screw-type connectors.

TECHNICAL FEATURES

- Range of operating voltages: 24-75 $V_{DC.}$
- Range of current: 0.6-6.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Protections:

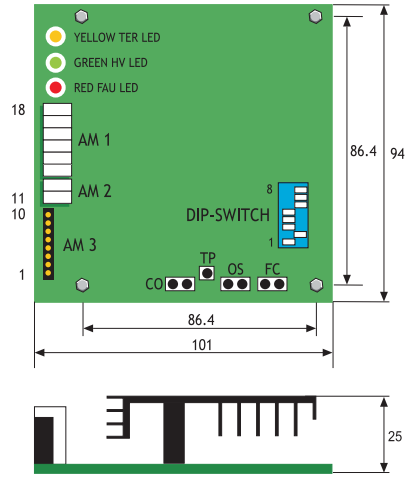
  -Protection against under-voltage and over-voltage.
  -Protection against a short-circuit at motor outputs.
  -Overtemperature protection with thermal sensor.
- Optoinsulated inputs compatible with differential control signals.
- Possibility to switch off motor current with an external logic signal.
- High efficiency CHOPPER with MOSFET final stage output.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- Available a version with built-in oscillator, with speed range from 14 to 450 rpm. Setting by means of dip-switches.
- Version: boxed/open frame, equipped with crimp-type or screw-type connectors. Maximum compactness.
- Warranty: 24 months.

POWER AND LOGIC CONNECTIONS

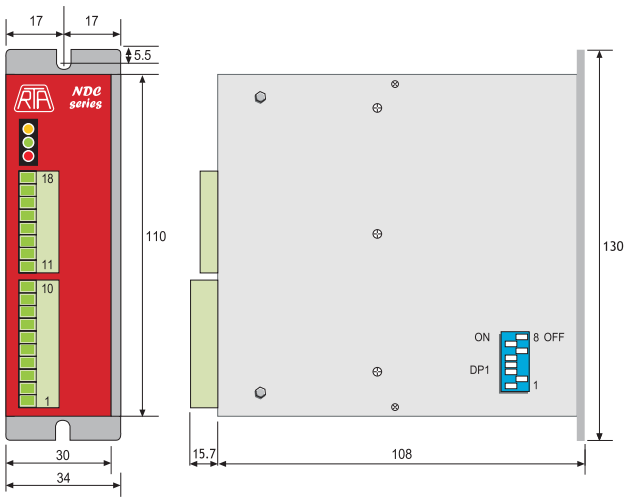


MECHANICAL DIMENSIONS

NDC 04 / NDC 06



NDC 94 / NDC 96



Dimensions in millimeters - Not in scale.

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