

# NDC Series Drives

## GENERAL DESCRIPTION

**NDC** is the name of a series of ministep bipolar chopper drives, suitable for driving medium-low power two-phase stepping motors, with four, six or eight terminals.

They are offered in two versions:

- **NDC 04/06**: open frame drives in 101 x 94 x 25 mm format.
- **NDC 94/96**: drives housed in a metallic box, 110 x 108 x 34 mm format.

**NDC** series drives are equipped with separated connectors for logic signals and power connections. They are designed for easy mounting inside a metal electrical cabinet.

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

Optoinsulated and differential input and output signals ease interfacing with the most commonly used control systems and ensure high noise immunity.

**NDC 04/06**



**NDC 04.V/06.V**



**NDC 94/96**



**Motion Control Systems**

[www.automotsys.com.au](http://www.automotsys.com.au)

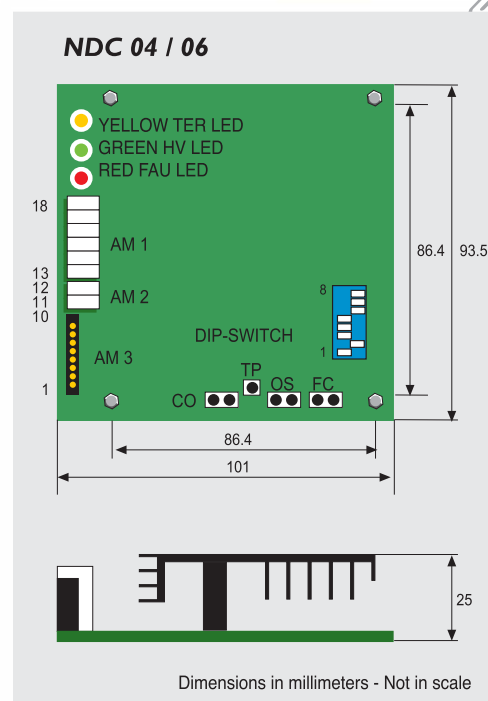
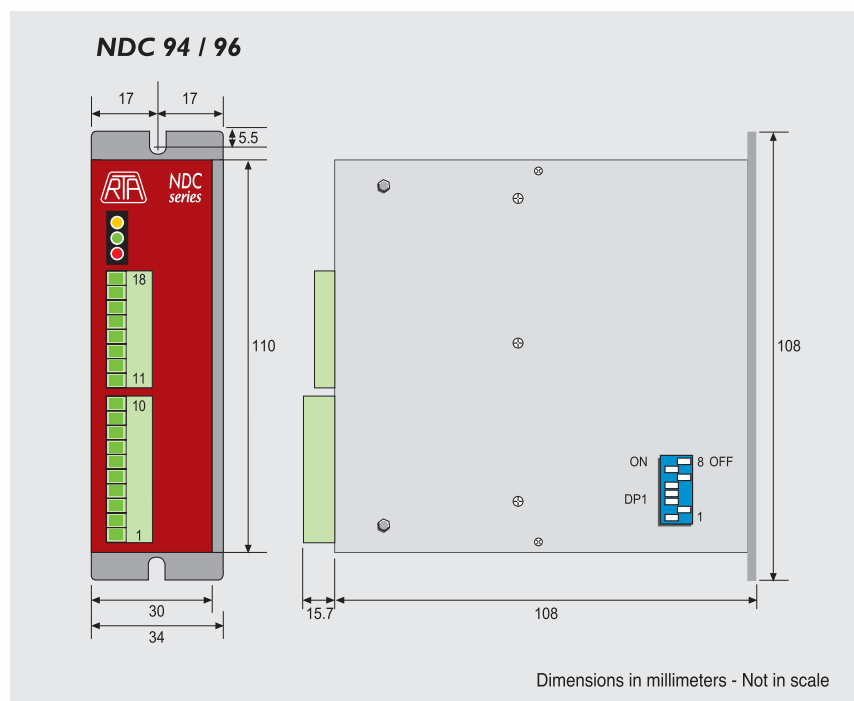
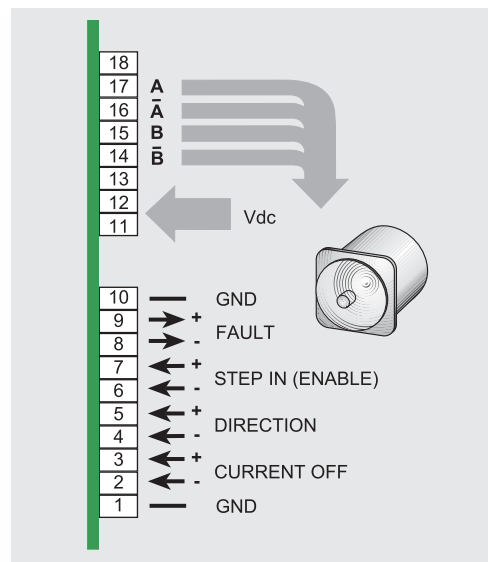
# R.T.A. STEPPING MOTOR DRIVES catalogue

## TECHNICAL FEATURES

- Extended range of operation voltages from 24 to 75 V<sub>DC</sub>. Operation with a single external supply voltage.
- Motor phase current setting by means of a DIP-SWITCH. Up to eight possible values, between **I<sub>NF</sub> min.** and **I<sub>NF</sub> max.** can be set.
- Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- Automatic current reduction at motor standstill.
- Protection against short circuit at motor outputs, under-voltage and over-voltage.
- Overtemperature protection with thermal sensor.
- Optoinsulated inputs compatible with differential control signals.
- Two versions are available: with quick connection, crimp-type, or screw-type connectors.
- Possibility to reduce 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-SWITCH.

Model	V <sub>DC</sub> range	I <sub>NF</sub> min. (Peak value)	I <sub>NF</sub> max. (Peak value)	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
NDC 04 (NDC 04.V)*	24 to 75	0.6	2.0	101x94x25
NDC 06 (NDC 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.



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