

NDC Series Drives

GENERAL DESCRIPTION

NDC 94 and **NDC 96** is the name of a series of *ministep* bipolar chopper drives, suitable for driving two-phase stepping motors, with four, six or eight terminals.

NDC 94 and **NDC 96** series drives are housed in a metallic box, 110 x 108 x 34 mm format suitable for wall mounting, by means of screws or mounting brackets separately supplied by R. T.A. as an option. They require a single DC supply voltage and do not need external fans: accordingly, they are ideal both for mounting inside a metallic electrical cabinet and for stand-alone applications.

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

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

R.T.A. experience, together with a careful design for these specific purposes, has led to a high reliability component, in spite of its very competitive cost.



Motion Control Systems

TECHNICAL FEATURES

- ▶ Extended range of operation voltages from 24 to 75 VDC.
- ▶ Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- ▶ Motor phase current setting by means of a DIP-SWITCH. Up to eight possible values, between **0.6 A** and **6.0 A**, can be set.
- ▶ Optoinsulated inputs compatible with differential control signals.
- ▶ Automatic current reduction at motor standstill.
- ▶ Possibility to switch off motor current with an external logic signal.
- ▶ Protection against short circuit at motor outputs, under-voltage and over-voltage.
- ▶ Overtemperature protection with thermal sensor.
- ▶ Operation with a single external supply voltage.
- ▶ High efficiency CHOPPER with MOSFET final stage output.
- ▶ Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- ▶ Built-in oscillator available, with speed range from 14 to 450 rpm setting by means of DIP-SWITCH.

Model	V _{DC} range	I _{NF} min.	I _{NF} max.	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
NDC 94	from 24 to 75	0.6	2.0	110x108x34
NDC 96	from 24 to 75	1.9	6.0	110x108x34

