

NDC Series Drives

GENERAL DESCRIPTION

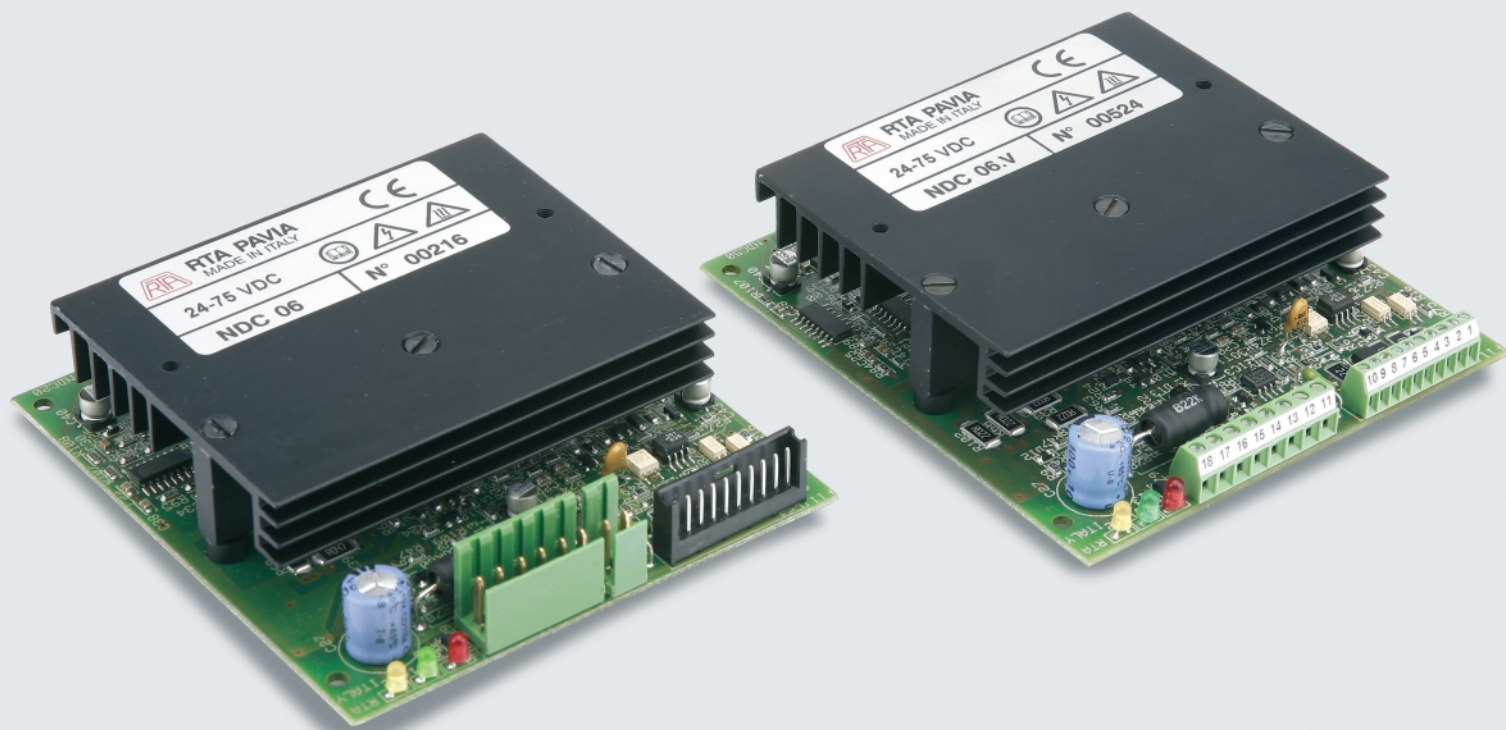
NDC is the name of a series of *ministep* bipolar chopper drives, suitable for driving medium-low power two-phase stepping motors, with four, six or eight terminals.

NDC drives are realized in 101 x 94 x 25 mm format and are equipped with separated connectors for logic signals and for power connections. They are designed for easy mounting inside a metal electrical cabinet, by means of spacers or brackets separately supplied by R.T.A. as an option.

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.

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.



Motion Control Systems

R.T.A. STEPPING MOTOR DRIVES catalogue

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 equidistant values, between I_{NF} min. and I_{NF} max. can be set.
- ▶ Optoinsulated inputs compatible with differential control signals.
- ▶ Two versions are available, with quick connection, crimp-type, or screw-type connectors.
- ▶ 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 a further acoustic noise and mechanic vibrations reduction at low and medium speed.
- ▶ Built-in oscillator available, with speed range from 14 to 450 rpm.

Models	V _{DC} range	I _{NF} min.	I _{NF} max.	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 04.V and NDC 06.V versions are equipped with screw-type connectors.

