NDC *Series Drives*

PRELIMINARY

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.

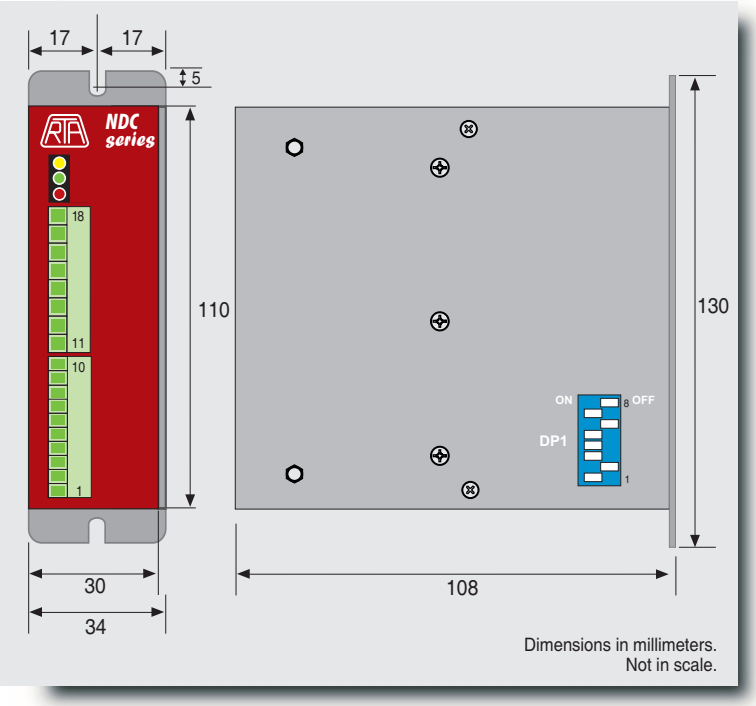
RTA Motion Control Systems

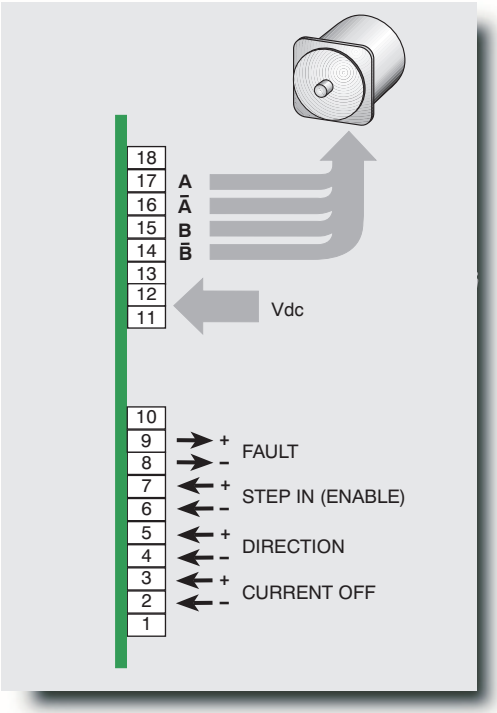
PRELIMINARY

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*





R.T.A. s.r.l.
Via E. Mattei - Fraz. Divisa
27020 Marcignago (PV) ITALY
Tel. +39.0382.929.855 - Fax +39.0382.929.150
www.rta.it

R.T.A. Deutschland GmbH
Bublitzer Straße, 34
40599 DÜSSELDORF (Germany)
Tel. +49.211.749.668.60 - Fax +49.211.749.668.66
www.rta-deutschland.de

R.T.A. IBERICA-Motion Control Systems S.L.
C/Generalitat 22, 1° 3°
08850 GAVA - BARCELONA (Spain)
Tel. +34.936.388.805 - Fax +34.936.334.595
www.rta-iberica.es