

# X-MIND B Series Drives

## GENERAL DESCRIPTION

**X-MIND B** is the name of a series of *ministep* bipolar chopper drives suitable for driving two-phase stepping motors with four, six or eight terminals.

**X-MIND B** series drives are housed in a metallic box, 180 x 173 x 53 mm format, suitable for wall mounting.

They can be connected directly to the main AC supply (110 to 230 V) normally avoiding the need for a transformer.

The wide supply range eases the use of this drive in different applications and countries.

**X-MIND B** is UL CSA certified.

The *ministep* operation, connected with a further electronic resonance damping facility, ensures low acoustic noise and a reduced amount of motor mechanical vibrations.

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

R.T.A. experience, together with a careful design for these specific purposes, has led to a component offering high reliability, best performances, great ease of use at competitive costs.



File Number: E306454



Motion Control Systems

# R.T.A. STEPPING MOTOR DRIVES catalogue

## TECHNICAL FEATURES

- ▶ Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- ▶ Operation directly from the main AC supply (extended range from 110 to 230 V).
- ▶ Motor phase currents setting by means of DIP-SWITCHES. Up to four possible equidistant values between  $I_{NF \text{ min.}}$  and  $I_{NF \text{ max.}}$  can be set.
- ▶ Optically insulated inputs compatible with differential control.
- ▶ Automatic current reduction at motor standstill.
- ▶ Possibility to switch off motor current with an external logic signal.
- ▶ Protection against a short circuit at motor outputs.
- ▶ Protection against under-voltage and over-voltage.
- ▶ Overheating protection.
- ▶ High efficiency CHOPPER with IGBT final stage output.
- ▶ Electronic resonance damping circuit to ensure acoustic noise and mechanical vibrations reduction at low and medium speed.

Models	V <sub>AC</sub> range	I <sub>NF</sub> min.	I <sub>NF</sub> max.	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
X-MIND B4	110 to 230 +/- 15%	2.3	4	180x173x53
X-MIND B6	110 to 230 +/- 15%	3.4	6	180x173x53

