

X-MIND B Series Drives

INTRODUCTION

- Stepping motor drives series with Step & Direction interface and direct input from the main AC power supply (from 110 V_{AC} to 230 V_{AC}).
- The drive is equipped with an internal rectifier able to transfer more than 330 V_{DC} (230 V_{AC}) to the motor, to ensure the maximum power for the application as well as a significant cost saving on transformer and rectifier, together with the related cabling activity.
- Target: advanced application requiring great dynamic performance, high reliability and simplified power supply.
- UL/CSA certified.



HIGHLIGHTS

- Microstepping function up to 4.000 step/rev.
- Connection directly to the main AC supply (110 to 230 V_{AC}) normally avoiding the need for a transformer.
- Electronic damping facility for further acoustic noise and mechanic vibrations reduction at low and medium speed.
- External fans not needed: 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.
- Coupling with stepping motors rated for high voltage and equivalent or bigger than NEMA 34 is mandatory.



FILE NUMBER: E306454



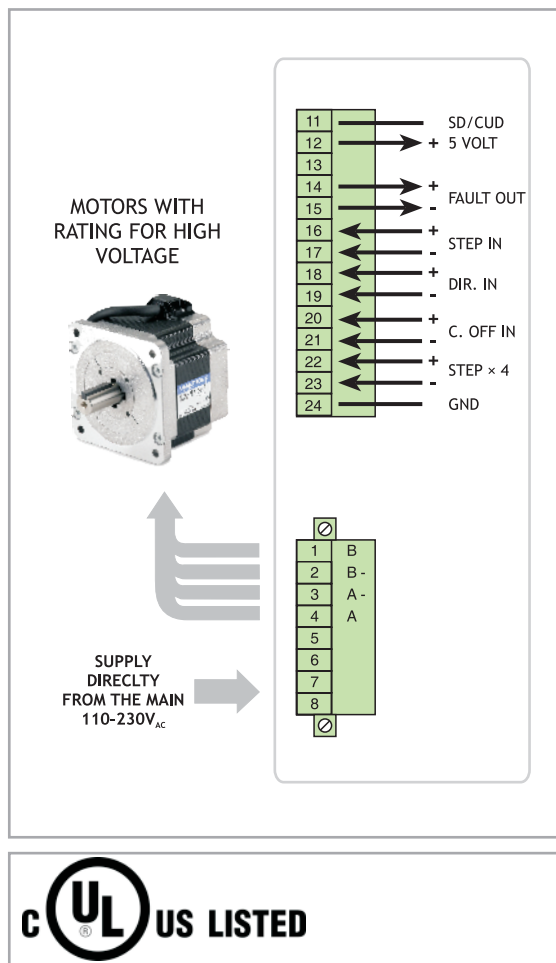
Series	Model	V _{AC} range (Volt)	I _{NP} min. (Peak value) (Amp)	I _{NP} max. (Peak value) (Amp)	Dimensions (mm)
X-MIND	B4	110 to 230 +/- 15%	2.3	4.0	180x173x53
X-MIND	B6	110 to 230 +/- 15%	3.4	6.0	180x173x53

TECHNICAL FEATURES

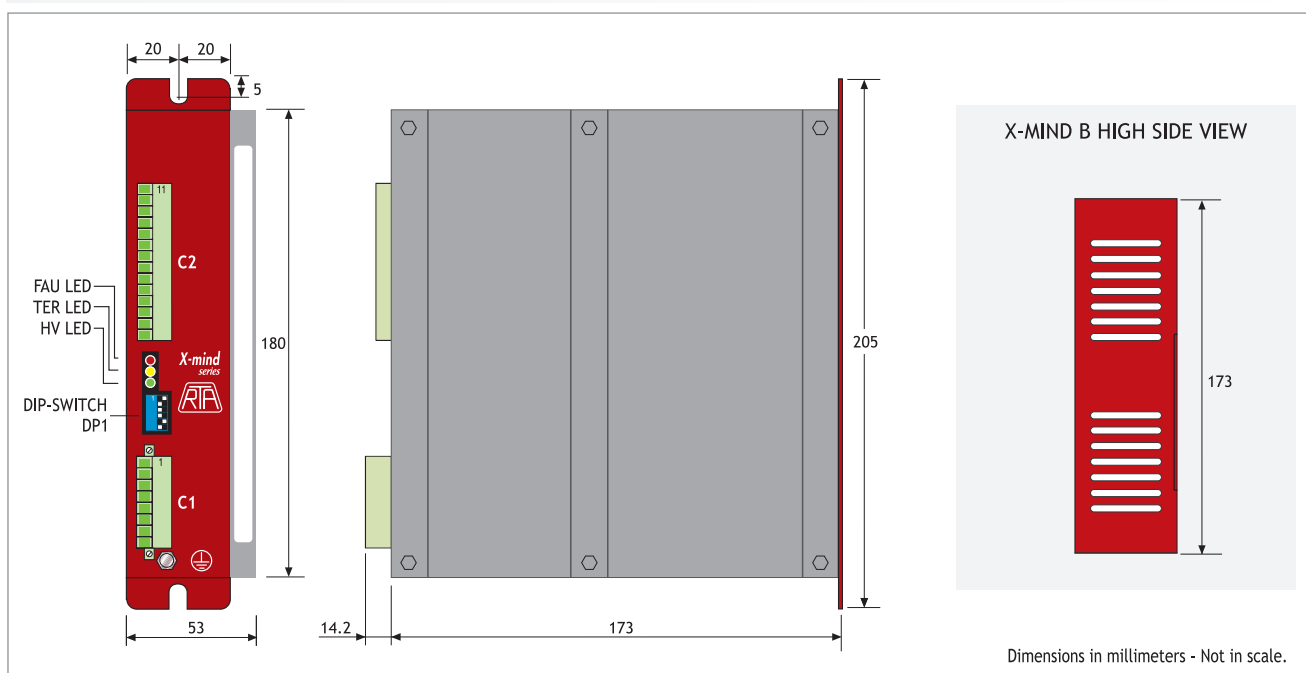
- Range of operating voltages: 110-230 V_{AC}.
- Range of current: 2.3-6.0 Amp. Setting up to eight possible values by means of dip-switches.
- Microstepping: 400, 800, 1.600, 3.200 and 500, 1.000, 2.000, 4.000 steps /revolution. Setting by means of dip-switches.
- Automatic current reduction at motor standstill.
- Protections:
 - Protection against under-voltage and over-voltage.
 - Protection against a short-circuit at motor outputs.
 - Overheating protection with thermal sensor.
- Optoinsulated inputs compatible with differential control signals.
- Possibility to switch off motor current with an external logic signal.
- High efficiency CHOPPER with IGBT final stage output.
- Electronic resonance damping circuit to ensure acoustic noise and mechanic vibrations reduction at low and medium speed.
- External fans not needed.
- Coupling with stepping motors rated for high voltage and equivalent or bigger than NEMA 34 is mandatory.
- Version: boxed, equipped with crimp-type connectors.
- Maximum compactness.
- UL/CSA certified.
- Warranty: 24 months.



POWER AND LOGIC CONNECTIONS



MECHANICAL DIMENSIONS



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
Bublitzter 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, 1º 3º
08850 GAVA - BARCELONA (Spain)
Tel. +34.936.388.805 - Fax +34.936.334.595
www.rta-iberica.es