

X-MIND K *Series Drives*

GENERAL DESCRIPTION

X-MIND K is the name of a series of ministep bipolar drives with directly from the main AC supply. They have an on-board programmable motion controller that can be used:

- for the interfacing through RS485 serial line with a central control system
- as an independent unit.

X-MIND K 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 drive usage in different applications and countries.

A broad range of available current/voltage values, specific instructions set and the availability of programmable inputs and outputs optimize the use of **X-MIND K** series drives with a wide variety of stepping motors and in a large number of applications.



Motion Control Systems

www.automotsys.com.au

R.T.A. STEPPING MOTOR DRIVES catalogue

TECHNICAL FEATURES

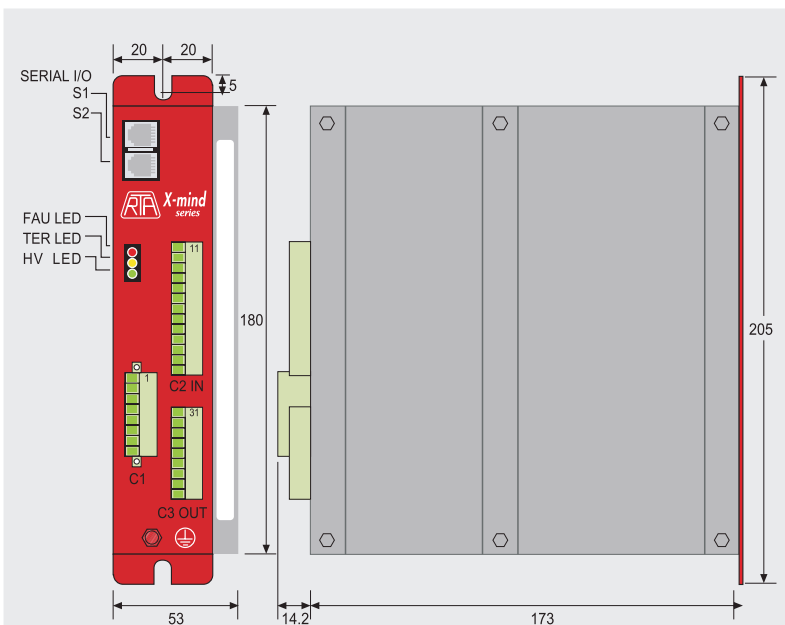
- Operation directly from the main AC supply (from 110 to 230 V_{AC}). No need of external transformer and rectifier.
- High voltage DC bus: direct rectifier from main AC supply.
- Wide range of operating voltages and motor phase currents setting. Up to 4 possible equidistant values, between I_{NF min.} and I_{NF max.}, can be set by means of a serial line.
- Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution set by means of serial line.
- Electronic resonance damping circuit to ensure acoustic noise and mechanical vibrations reduction at low and medium speed.

PROGRAMMABLE MOTOR CONTROLLER FEATURES

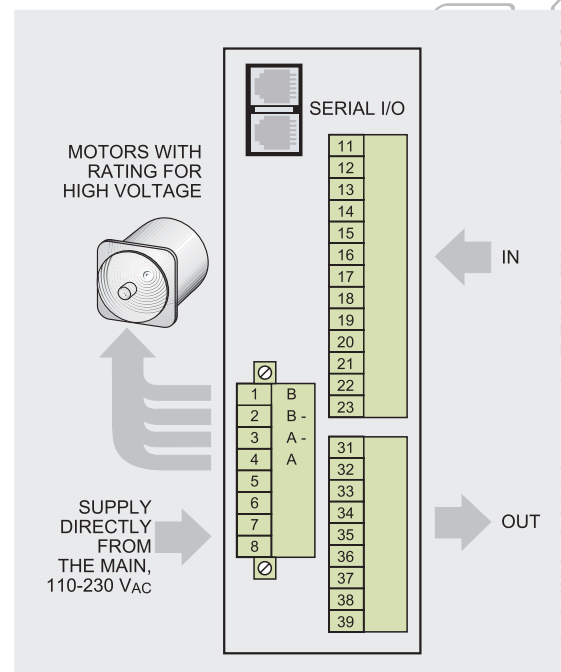
- Communication through RS485 serial line; up to 48 drives can be connected on a single serial line. One instruction can be broadcasted to all drives.
- Possibility to control the execution of 16 previously stored motion programs through hardware inputs. Accordingly, the drive can be used in stand-alone applications, without serial connection.
- Various types of available instructions, as for example: indexed run with ramp, free run with ramp, indexed run without ramp, run with a programmable braking distance, zero research. Space can be programmed in relative or absolute mode (linear or circular).
- Number of steps for indexed ramp up to $\pm 8.338.607$ in relative or absolute mode, speed from 1 to 24.000 Hz in standard and increased resolution, ramp times from 16 to 1440 msec..
- Availability of instructions to develop motion programs as, for example: conditional jump, time delay, program block and recovery, I/O management, FOR NEXT loop.
- 11 inputs and 6 outputs, all optically insulated. Among them 3 inputs and 4 outputs are freely programmable.
- Memory of 128 instructions kept also at drive switched-off and three run time instructions.
- A utility working in Windows® is available in order to ease motion programs development by the user.

NOTE: Motors with rating for high voltage must be used in coupling with this drive.

Model	V _{AC} range	I _{NF min.} (Peak value)	I _{NF max.} (Peak value)	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
X-MIND K4	110 to 230 +/- 15%	2.3	4.0	180x173x53
X-MIND K6	110 to 230 +/- 15%	3.4	6.0	180x173x53



Dimensions in millimeters - Not in scale



AUTOMATED MOTION SYSTEMS PTY. LTD.

MAILING ADDRESS:
P.O. BOX 1240
WANGARA DC
W.A. 6947

PHONE: (08) 9309 1896
FAX: (08) 9309 5671
EMAIL: sales@automotsys.com.au
INTERNET: http://www.automotsys.com.au

OFFICE ADDRESS:
UNIT 2, 7 BARETTA RD.
WANGARA, PERTH
WESTERN AUSTRALIA