



Motion Control Systems

X-PLUS B and X-MIND B Series

110Vac/230Vac Stepping Motor Drives and Related Motors

PRODUCT DESCRIPTION

- X-PLUS B and X-MIND B are the new ministep bipolar chopper drives from RTA with direct connection to the main AC power supply (110 Vac to 230 Vac).
- The wide AC power supply range eases the use of this drive in different applications and Countries. The internal high voltage bus ensures a high performance in terms of torque/speed.
- The ministep operation, connected with a further electronic resonance damping facility, grants low acoustic noise and a reduced amount of motor mechanical vibrations. Optically insulated and differential input/output signals ensure interfacing with the most commonly used control systems and ensure high noise immunity.
- X-PLUS B and X-MIND B, like all RTA products, are entirely designed and produced in Italy and directly available in 39 Countries thanks to the wide RTA Sales Distribution Network. (Distributor and dealer list available www.rta.it).
- RTA products are certified 100% defect-free by the complete double functional tests executed on all drives before delivery.
- 24-months warranty is granted for all items purchased worldwide.
- **INFO:** Technical data sheets of all RTA drives can be downloaded at: www.rta.it
For motor couplings please refer to information overleaf.

TECHNICAL FEATURES

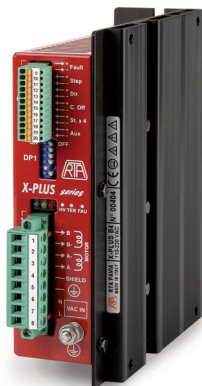
- Operation at 400, 800, 1600, 3200 and 500, 1000, 2000, 4000 steps/revolution.
- Direct connection to the main AC power supply. No external transformer needed. (Extended range 110 Vac to 230 Vac).
- High voltage DC bus (direct rectifier from AC voltage).
- Motor phase currents easy setting by DIP-SWITCHES.
- Optically insulated inputs compatible with differential control units.
- Automatic current reduction at motor standstill.
- Protection against a short circuit at motor outputs.
- Protection against under-voltage and over-voltage.
- Overheating protection.
- Electronic resonance damping circuit.

Model	V _{AC} range	I _{NF} min.	I _{NF} max.	Dimensions
	(VOLT)	(AMP)	(AMP)	(mm.)
X-PLUS B4	110 to 230 +/-15%	2.4	4	152x129x46
X-MIND B4	110 to 230 +/-15%	2.3	4	180x173x53
X-MIND B6	110 to 230 +/-15%	3.4	6	180x173x53

X-MIND B4/B6



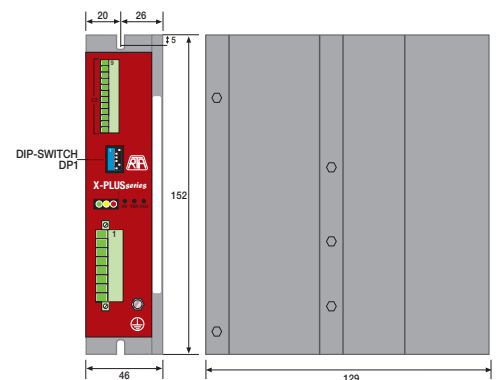
X-PLUS B4



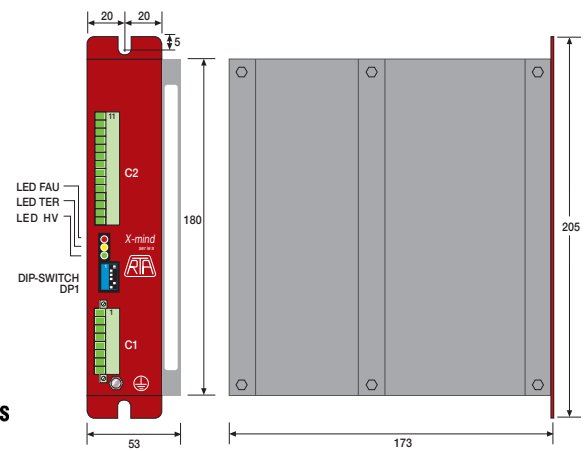
SANYO DENKI

SANMOTION
STEPPING SYSTEMS

X-PLUS B4



X-MIND B4/B6



Select your motor + drive combination

- X-Plus B and X-Mind B Series, having high voltage DC bus, must be used in combination with stepping motors especially designed for High Voltage Ratings (250Vac) and able to sustain a direct connection to the main AC supply.
- Please find below the mandatory combinations with Sanyo Denki stepping motors and the related Torque/Speed diagrams at 110Vac and 230Vac.

NEMA 34 flange size motors

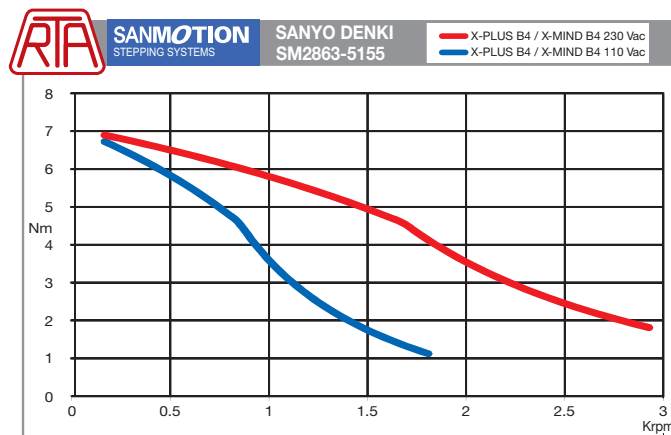
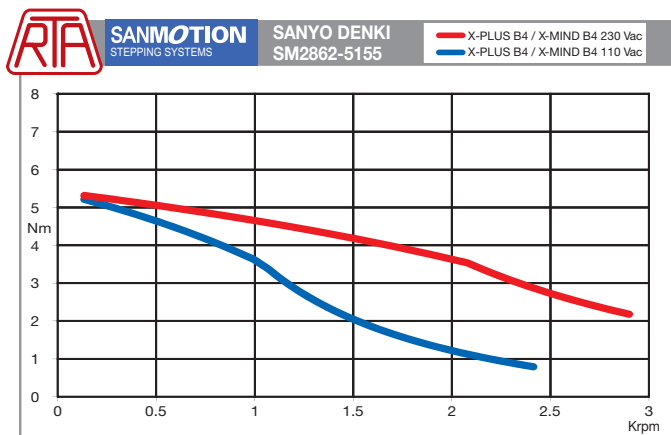
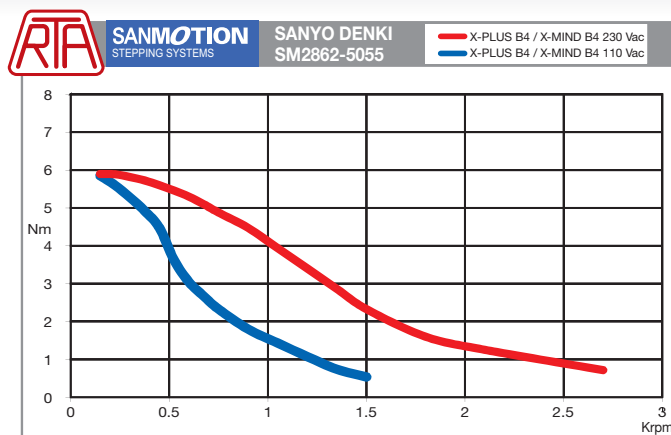
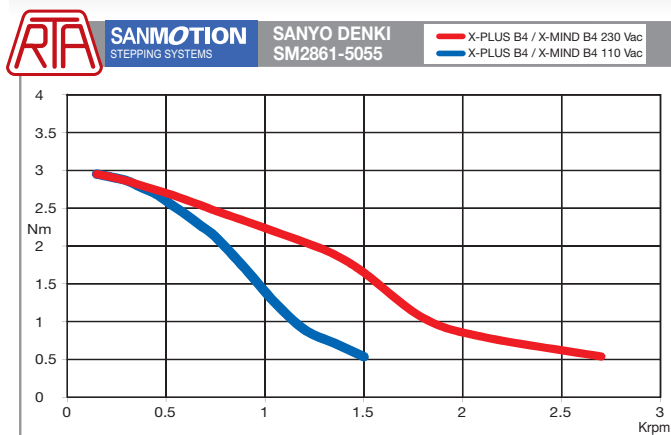
X-PLUS B4 X-MIND B4	SM2861-5055	Holding torque: 3.6 Nm Bipolar parallel current: 2 Amp
	SM2862-5055	Holding torque: 7.0 Nm Bipolar parallel current: 2 Amp
	SM2862-5155	Holding torque: 7.0 Nm Bipolar parallel current: 4 Amp
	SM2863-5155	Holding torque: 9.2 Nm Bipolar parallel current: 4 Amp

NEMA 42 flange size motors

X-MIND B6	103-H89222-6341	Holding torque: 16.2 Nm Bipolar parallel current: 6 Amp
	103-H89223-6341	Holding torque: 24.6 Nm Bipolar parallel current: 6 Amp

INFO: Electrical and mechanical data sheets of indicated motors can be downloaded at: www.rta.it

TORQUE/SPEED DIAGRAMS - NEMA 34 FLANGE SIZE



TORQUE/SPEED DIAGRAMS - NEMA 42 FLANGE SIZE

