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Find the *Axor B17 BOX 300* at our website: ***Click HERE***



B17 BOX®

AC BRUSHLESS SERVODRIVE

AXOR INDUSTRIES
MOTORS SERVO DRIVES

B17 BOX®

Digital stand alone brushless servodrive for AC sinusoidal servomotors up to 20Nm (2860 oz.-in.) encoder and resolver feedback

Typical Applications are : Conveyors, Medical, Textile Equipment, Packaging Machinery, Positioners, Converting Machinery, Feeders.



CE Pb RoHS COMPLIANT

STANDARD FEATURES

- ✔ Internal power supply and dumping circuit
- ✔ 32 Bit RISC Micro-controller
- ✔ Two feedback modes:
  1) from incremental encoder (max 200 KHz) emulation resolution divided by 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 (IAW original)
  2) from resolver (2 - 4 - 6 - 8 poles) encoder emulation (standard setting) 4096-2048-1024-512-256-128 P/r (2 poles resolver-14 bit-4000 Rpm Max Motor Speed)
- ✔ Positive / Negative Limit Switches
- ✔ Two programmable digital inputs (alternative with limit switches)
- ✔ Parameter setting by keys on the front panel or RS232/485
- ✔ Available software interface (windows 95/98 based)
- ✔ Enable inputs available with both positive/negative logical levels
- ✔ Completely protected from: Over/Under supply voltage
  Over temperature/External short circuit motor polarity
  Absence or improper connection of speed feedback

SPECIFICATIONS

✔ Supply voltage range:	(B17 BOX 200)	52÷145 VAC
	(B17 BOX 300)	85÷240 VAC
✔ Operating frequency:		16 (KHz)
✔ Operating temperature:		0 ÷ 40 °C (32÷104°F)
✔ Motor current monitor (Iq component):		±10VDC (at peak current)
✔ Motor speed monitor:		
- encoder feedback		±10VDC (at 200 KHz))
- resolver feedback (2 poles)		±10VDC (at 6000 Rpm motor)
✔ Auxiliary external input supply voltage:		24VDC
✔ Enable signals:		+10÷30VDC
✔ Analog input reference (differential):		±10 VDC (16 bit resolution)
✔ Output voltage supply:		+10/-10V @ 2.5mA
✔ Humidity (%) (without condensation):		10 ÷ 85%

DESCRIPTION

*The **B17 Box® Digital** amplifier, is a stand alone four quadrant converter with sinusoidal wave suitable for driving AC Brushless Servomotors. Comes complete with its own internal power supply, dumping circuit and detachable plug-in terminals for easy installation. The power stage is made by power Mos-fet or Igbt.*

ACCESSORIES
(see specific data sheets for details)

✔ SERVOMOTORS
- Super Sax: 0.35÷17Nm (50÷2428 oz.-in.)

✔ TRANSFORMERS
- TM/TT: single/3ph 100÷8000 VA

✔ NET FILTERS (for CE compliance)
- FRM/FRT: single/3ph, 2÷16 Arms

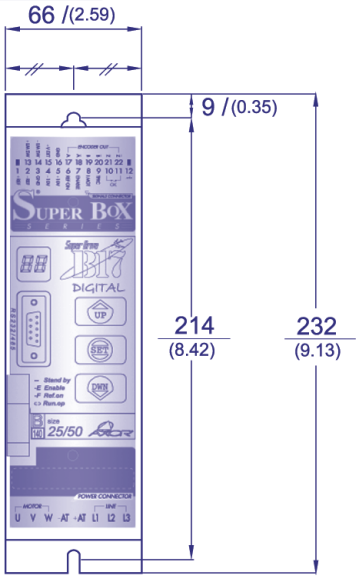
MODEL	B17 BOX 200					B17 BOX 300 °ϟ				
SIZE	**4/8**	**8/16**	**10/20**	**14/28**	**20/40**	**4/8**	**8/16**	**10/20**	**14/28**	**20/40**
Rated Current (Arms)	**4**	**8**	**10**	**14**	**20**	**4**	**8**	**10**	**14**	**20**
Peak Current (Arms) x 2 sec.	8	16	20	28	40*	8	16	20	28	40*
F2: Supply Line Fuses (T-type = time-lag)	4 A 250 V	8 A 250 V	10 A 250 V	14 A 250 V	20 A 250 V	4 A 250 V	8 A 250 V	10 A 250 V	14 A 250 V	20 A 250 V
Supply (VAC) (3PH)	**145 VAC ▲**					**230 VAC ▲**				

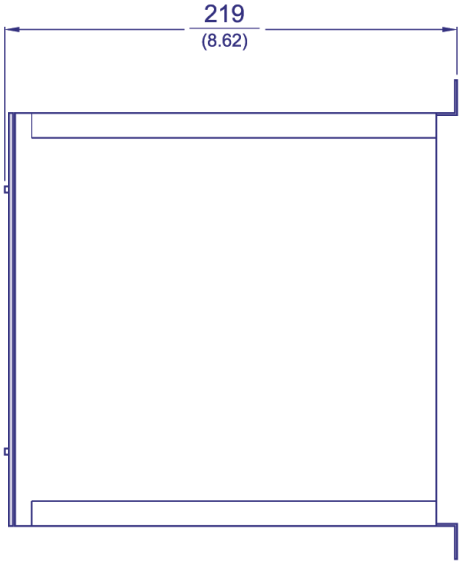
▲: *Recommended AC power supply* *: *Peak current= x 1 second* °ϟ: *Optocoupled*

MECHANICAL DIMENSIONS

Drawings are not to scale (see quotations)

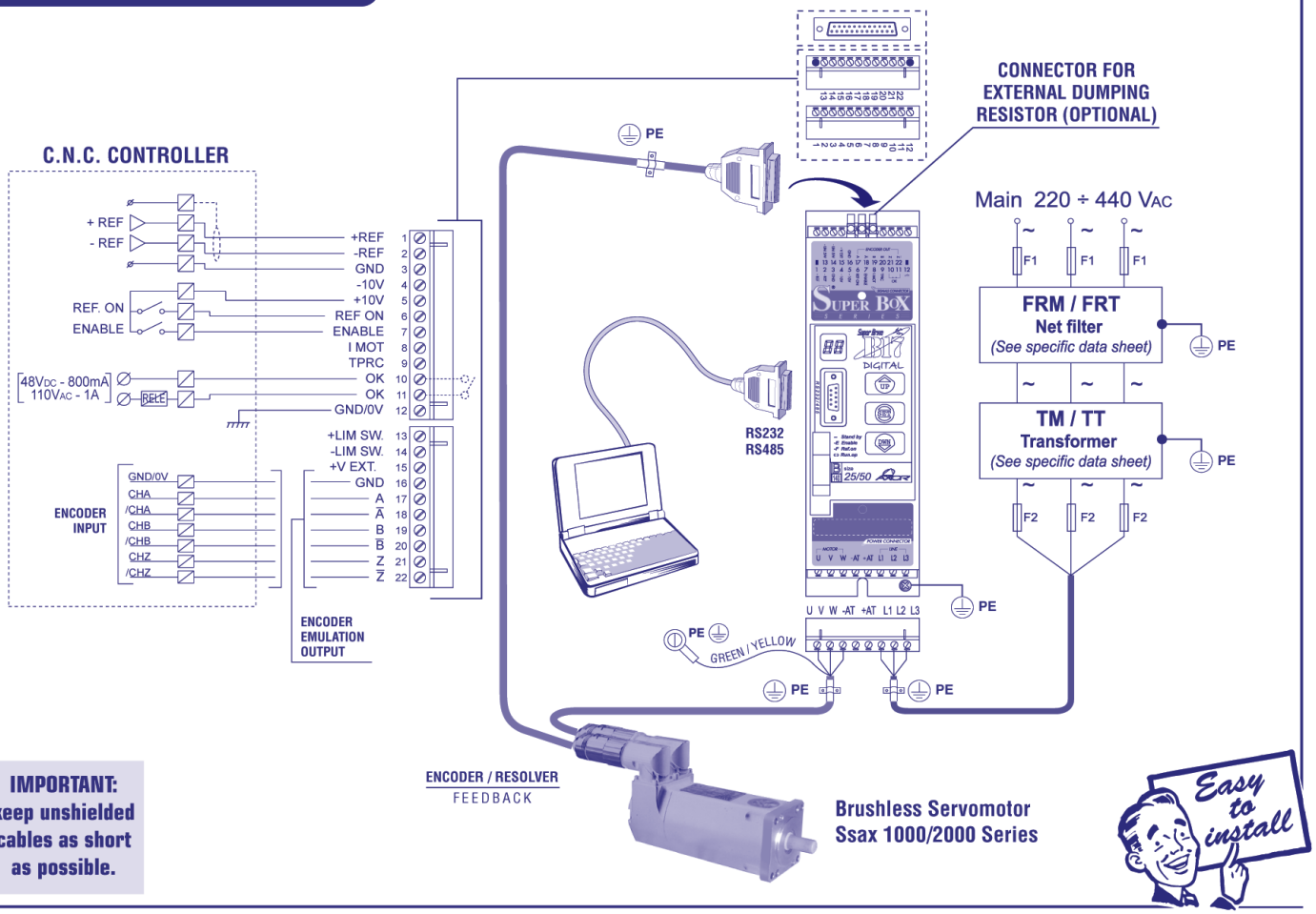
mm (INCHES)





Weight: 2.9 Kg

CONNECTION DIAGRAM



IMPORTANT: keep unshielded cables as short as possible.

ORDERING CODE
Example:

B17 BOX - 200 - 20 / 40 - RX - S - D - 1000 / RO - RD

NAME: Ac Brushless Servodrive

AMPLIFIER TYPE: 200 - 300

SIZE: 04/08 - 08/16 - 10/20 - 14/28 - 20/40

DUMPING SIZE:
RX = internal standard resistors
R4 = 400W external resistors (optional)
R8 = 800W external resistors (optional)

PROTECTION:
S= Standard
T= Tropicalized

TYPE:
D = Digital
A = Analog

AXOR: adjustment identification number

FEEDBACK:
EC = Commutation encoder
RO= Resolver
EH = Encoder+external hall

CONTROL MODE:
RD= Differential reference
IO = Demand current (torque mode)

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Part number D.S./09.00/B17BOX/05

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