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B17®

AC BRUSHLESS SERVODRIVE

AXOR INDUSTRIES
MOTORS SERVO DRIVES

B17 ®

Digital eurocard brushless servodrive for AC sinusoidal servomotors up to 20Nm (2860 oz.-in.)

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



STANDARD FEATURES

- ✔ Single DC Power Supply
- ✔ Three phase sinusoidal - four quadrant operation
- ✔ 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

✔ 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 (for logic only)
✔ Enable signals:	+10÷30VDC
✔ Analog input reference (differential):	±10VDC (16 bit resolution)
✔ Output voltage supply:	+10/-10VDC @ 2.5mA
✔ Humidity (%) (without condensation):	10 ÷ 85%

DESCRIPTION

*The **B17 ® Digital** amplifiers are eurocard formatted servodrives for sinusoidal brushless servomotors. They have a very flexible design and can be supplied to accomodate rack mount (up to 6 axis slots). The power stage is made by power Mos-fet or Igbt.*

ACCESSORIES

(see specific data sheets for details)

- ✔ SERVOMOTORS
  - Super Sax: 0.35÷17Nm
- ✔ RACK MULTIAXIS (with internal power supply)
  - RKB: 2÷6 axis + dumping slot
- ✔ DUMPING CARDS (for all rack systems)
  - SHR : braking power 50÷800 W
- ✔ TRANSFORMERS
  - TM/TT: single/3ph, 100÷8000 VA
- ✔ NET FILTERS (for CE compliance)
  - FRM/FRT: single/3ph, 2÷16 Arms

MODEL	B17 A60						B17 B140						B17 C200						B17 D300 °ϟ					
SIZE	4/8	8/16	10/20	14/28	20/40	25/50	4/8	8/16	10/20	14/28	20/40	25/50	4/8	8/16	10/20	14/28	20/40	25/50	4/8	8/16	10/20	14/28	20/40	25/50
WIDTH (TE) STANDARD	13	13	13	13✇	13✇	13✇	13	13	13	13✇	13✇	13✇	13	13	13✇	13✇	17✇	17✇	13	13	13✇	13✇	17✇	NA
WIDTH (TE) OPTION	–	–	–	17	–	–	–	–	–	17	–	–	–	–	17	–	–	–	–	–	17	–	–	NA
Rated Current (Arms)	4	8	10	14	20	25	4	8	10	14	20	25	4	8	10	14	20	25	4	8	10	14	20	NA
Peak Current (Arms) x 2 sec.	8	16	20	28	40*	50*	8	16	20	28	40*	50*	8	16	20	28	40*	50*	8	16	20	28	40*	NA
FDC: Supply Line Fuse (type F, M or T)•	15 A / 250 V (5x20 mm) (F, M, T-TYPE)			25 A / 500 V (6.3x32 mm) (T-TYPE)			15 A / 250 V (5x20 mm) (F, M, T-TYPE)			25 A / 500 V (6.3x32 mm) (T-TYPE)			15 A / 250 V (5x20 mm) (F, M, T-TYPE)			25 A / 500 V (6.3x32 mm) (T-TYPE)			25 A / 500 V (6.3x32 mm=0.25x1.25') (T-TYPE)					
Supply (VDC)	63 VDC ▲						140 VDC ▲						200 VDC ▲						300 VDC ▲					

•: ***FDC Fuse Type***: ***F***=Quick-acting ***M***= Medium time-lag ***T***=Time-lag

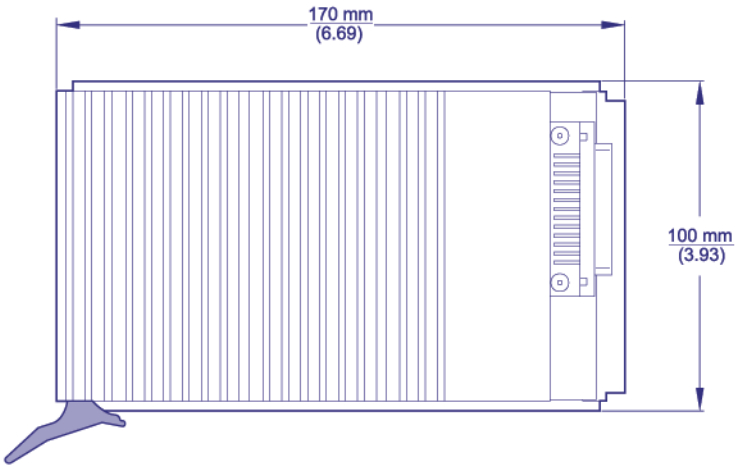
✇: Forced cooling required ▲: Recommended DC power supply

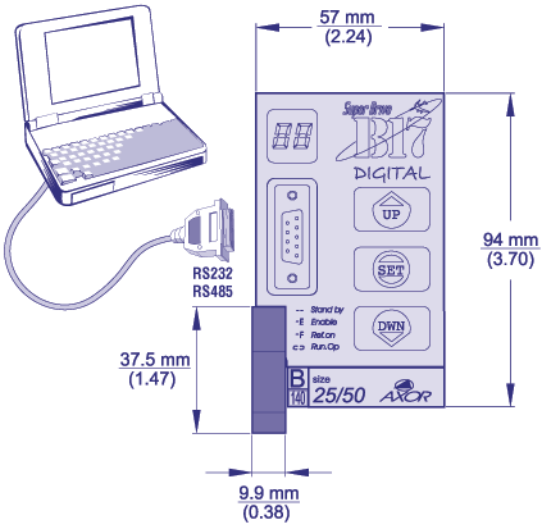
*: Peak current= x 1 second °ϟ : Optocoupled

MECHANICAL DIMENSIONS

Drawings are not to scale (see quotations)

mm
(INCHES)

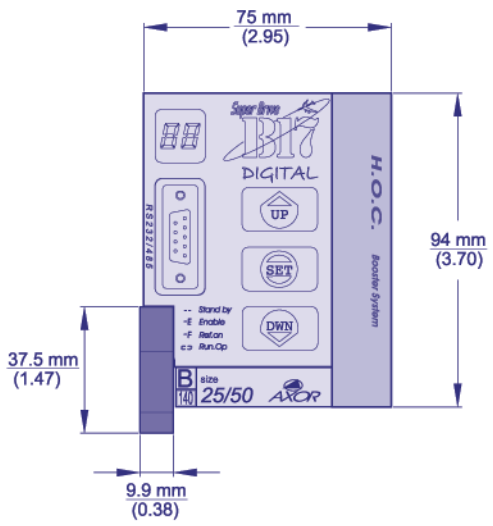




Standard version

13 TE

Weight: 0.8 Kg



Booster version
(Heatsink powered)

17 TE

Weight: 1.35 Kg



For the connection diagram, please see RKB (multiaxis power supply) system Data Sheet

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ORDERING CODE
Example: **B17 - B140 - 20/40 - B - S - D - 1000 - EC - RD**

NAME: Line of Brushless Servodrives

AMPLIFIER TYPE: A60 - B140 - C200 - D300

SIZE: 04/08 - 08/16 - 10/20 - 14/28 - 20/40 - 25/50•
(• =not available for B17 D 300 type)

HEATSINK VERSIONS:
N =Without Booster 13TE
B = Booster 17TE (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)

Part number D.S./09.00/B17/02

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