MICRO B NET Digital BRUSHLESS SERVODRIVE



MICRO B NET Digital® (MCBNetD)

Digital Stand alone brushless servodrive for AC sinusoidal servomotors up to 6 Nm (856 oz.-in.) encoder and resolver feedback

Typical Applications are : Conveyors, Medical, Textile Equipment, Packaging Machinery, X-Y Stages, Automated Assembly Machinery, Robotics, Component Insertion Machines.

STANDARD FEATURES

- ✓ Surface Mount Technology
- ✓ Cost effective, compact design, ease to install and use
- ✓ On-Board single ph. power supply 110/230 VAC with EMC line filter
- ✓ Optical isolation
- ✓ Three phase sinusoidal- four quadrant operation
- ✓ Can Bus / RS232
- ✓ Available software interface (windows 95/98 based)
- ✓ Two velocity feedback modes:
 - from resolver (2 4 6 8 poles) encoder emulation (opto isolated)
 - encoder feedback (max 250 KHz) emulation resolution divided by 1 - 2 - 4 - 8 - 16 - 32 - 64 - 128 (IAW original) (opto isolated)
- ✓ Digital display indicating operating status
- ✓ Fully protected against:
 - external short circuit (motor polarity)
 - over/under voltage (supply) / overtemperature
- absence or improper connection of speed feedback
- ✓ Wide load inductance range (0.5 30 mH)
- ✓ Extractable screw terminal
- ✓ Differential encoder input

SPECIFICATIONS

22 (KHz)

110÷230 Vac (150÷380) Vpc

0 ÷ 40 °C (32÷104°F)

+5V @ 250 mA

+14 Vpc @ 50mA

±5 VDC (at peak current)

± 8 Vpc (at max velocity)

+24 Vpc (for back-up only)

- ✓ Supply voltage range
- ✓ Operating frequency
- ✓ Operating temperature
- ✓ Motor current monitor
- ✓ Motor speed monitor
- ✓ Output supply for encoder
- Output voltage supply
- ✓ Auxiliary external supply voltage
- ✓ Operating mode:
 - ±10V velocity control (32 bit)
 - Pulse/direction input (for stepper motor controls)
 - Torque control
 - Position control
 - Encoder follower
- ✓ 8 digital input opto isolated (10 ÷ 30 Vpc)
- ✓ 2 digital output opto isolated (5 ÷ 30 Vpc)



DESCRIPTION

The MCBNet Digital® amplifier, is a really compact stand alone four quadrant converter with sinusoidal wave suitable for driving Ac Brushless Servomotors.

Comes complete with its own internal power supply with EMC line filter, dumping circuit and detachable plug-in terminals for easy installation. The power stage is made by power Mos-fet or lgbt.

ACCESSORIES

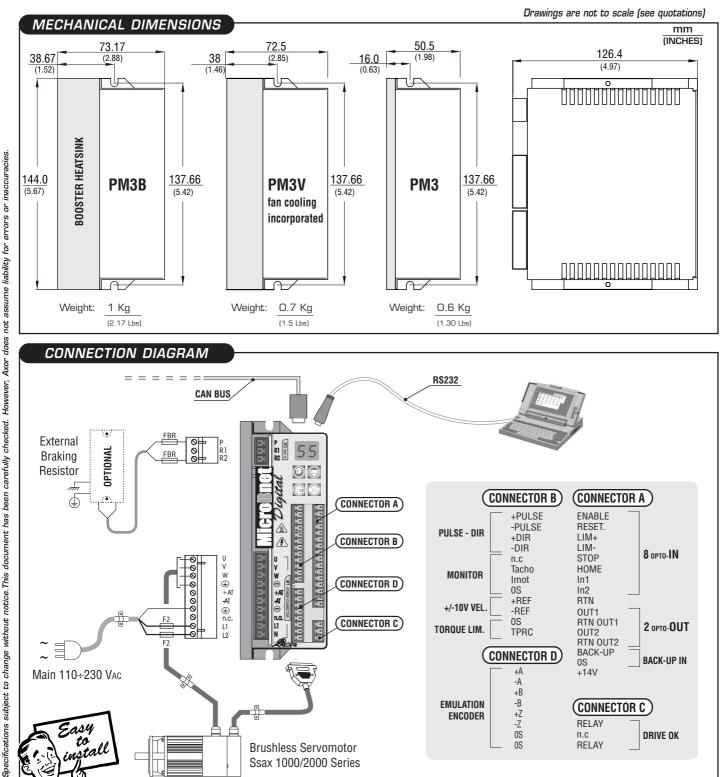
(see specific data sheets for details)

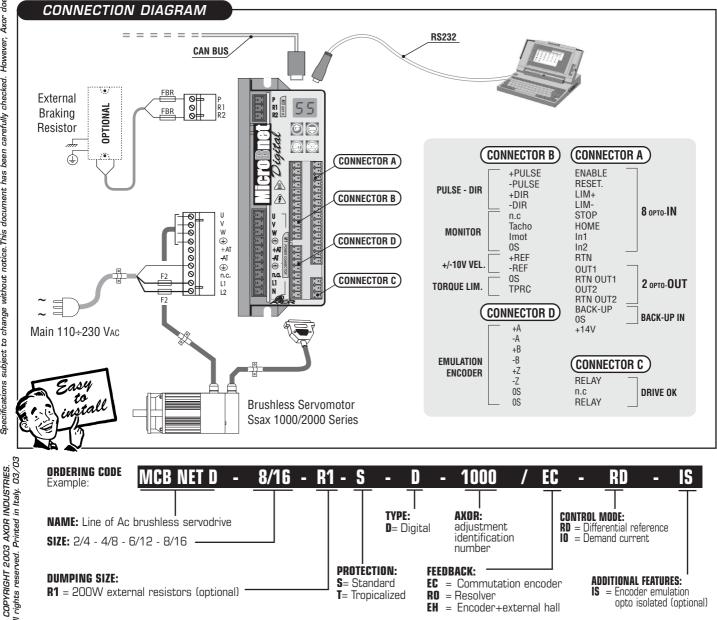
- ✓ SERVOMOTORS
- Ssax 1000: 0.35÷32 Nm
- Ssax 2000: 0.35÷17 Nm
- ✓ GERABOXES
- 5 flange sizes - Rex 100:

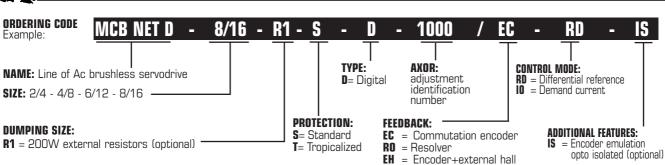
R ratios 1/3 ÷1/216

MODEL	MCB NET D°5				
SIZE	1/2	2/4	4/8	6/12	8/16
Case	PM3	PM3	PM3	PM3B	PM3V
Rated Current (Arms)	1	2	4	6	8
Peak Current (Arms) x 2 sec.	2	4	8	12	16
F2: Supply Line Fuses (T-type=time-lag)	3 A / 250 V	3 A / 250 V	5 A / 250 V	8 A / 250 V	10 A / 250 V
Supply (Vac) (1PH)	110 ÷ 230 Vac ^				

▲: Recommended AC power supply range °£: Optocoupled









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