



MCB NET A[®]

Stand alone brushless servodrive 220 Vac power supply for AC sinusoidal SUPER SAX servomotors up to 7.5 Nm encoder or resolver feedback.

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

STANDARD FEATURES

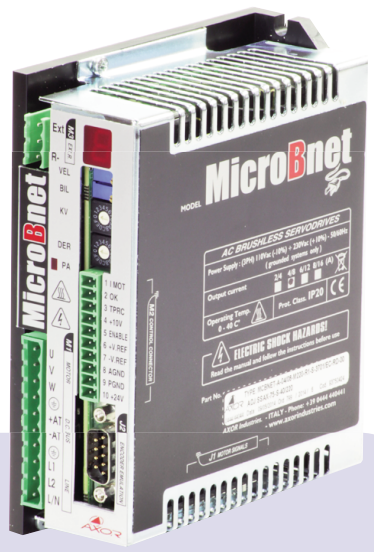
- ✓ 220 VAC - 3 PH power supply with EMC line filter and IN-RUSH circuit on board
- ✓ Three phase sinusoidal - four quadrant operation
- ✓ Optically isolated between power and signals
- ✓ Integrated regen circuit (external power resistor)
- ✓ Ventilation on-board when required
- ✓ Motor feedback from commutation encoder (max 250 KHz)
- ✓ Fully protected against:
 - external short circuit (motor polarity)
 - over/under voltage (supply)
 - over temperature
 - absence of feedback signals

OPTIONS

- ✓ Motor feedback from resolver
- ✓ **M 220**: 220 VAC single PH power supply
- ✓ **T 110**: 110 VAC 3 PH power supply
- ✓ **M 110**: 110 VAC single PH power supply
- ✓ **R 2** : 200W boosted dumping resistor

SPECIFICATIONS

- ✓ Operating frequency: 10 (KHz)
- ✓ Ambient temperature:
 - operating at rated data 0 ÷ 40°C (no derating)
 - storage -20 ÷ 55°C
- ✓ Humidity (W/OUT condensation): 85% max (operating & storage)
- ✓ Altitude A.M.S.L.:
 - operating at rated data 1000 m
 - rated and peak current derating 1000 ÷ 2500 m (-1.5%/100m)
- ✓ Input reference (differential): ±10V
- ✓ Motor current monitor: ± 6V (At peak current)
- ✓ Enable signals: +10 ÷ 30 Vdc
- ✓ Enclosure protection: IP20
- ✓ Storage duration: 1 year max*



DESCRIPTION

The **MCBNet**[®] 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, 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÷7.5 Nm
- ✓ **MOTOR CABLES**
 - CBLS: pre-assembled shielded power and feedback cables
- ✓ **TRANSFORMERS**
 - TM/TT: 3ph 100 ÷8000 VA

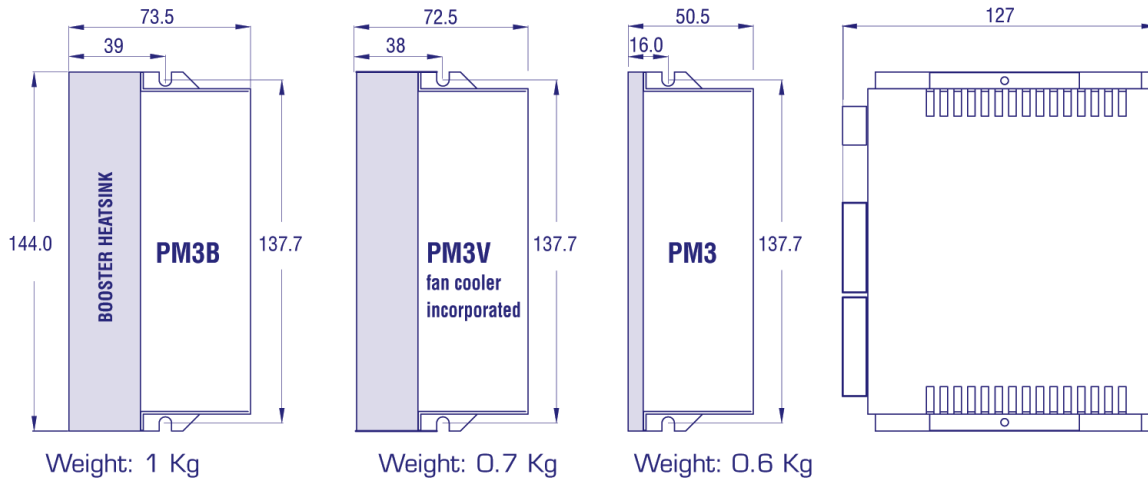
*: After 1 year storage duration the internal electrolytic power capacitors must be re-formed. Contact Axor's technical department for details

MODEL	MCB NET (° ÷ Optocoupled)			
SIZE	2/4	4/8	6/12	8/16
Case	PM3	PM3	PM3B	PM3V
Rated Current (Arms)	2	4	6	8
Peak Current (Arms) x 2 sec.	4	8	12	16
F2 Power Supply Line Fuses (T-type=time-lag)	3 A / 250 V	5 A / 250 V	8 A / 250 V	10 A / 250 V
Power Supply (3PH)	220 Vac (+10%) 50/60 Hz (3x110 Vac ± 10% as optional feature)			
Logic Supply (auxiliary for back-up only)	24 Vdc (±10% - 200mA)			

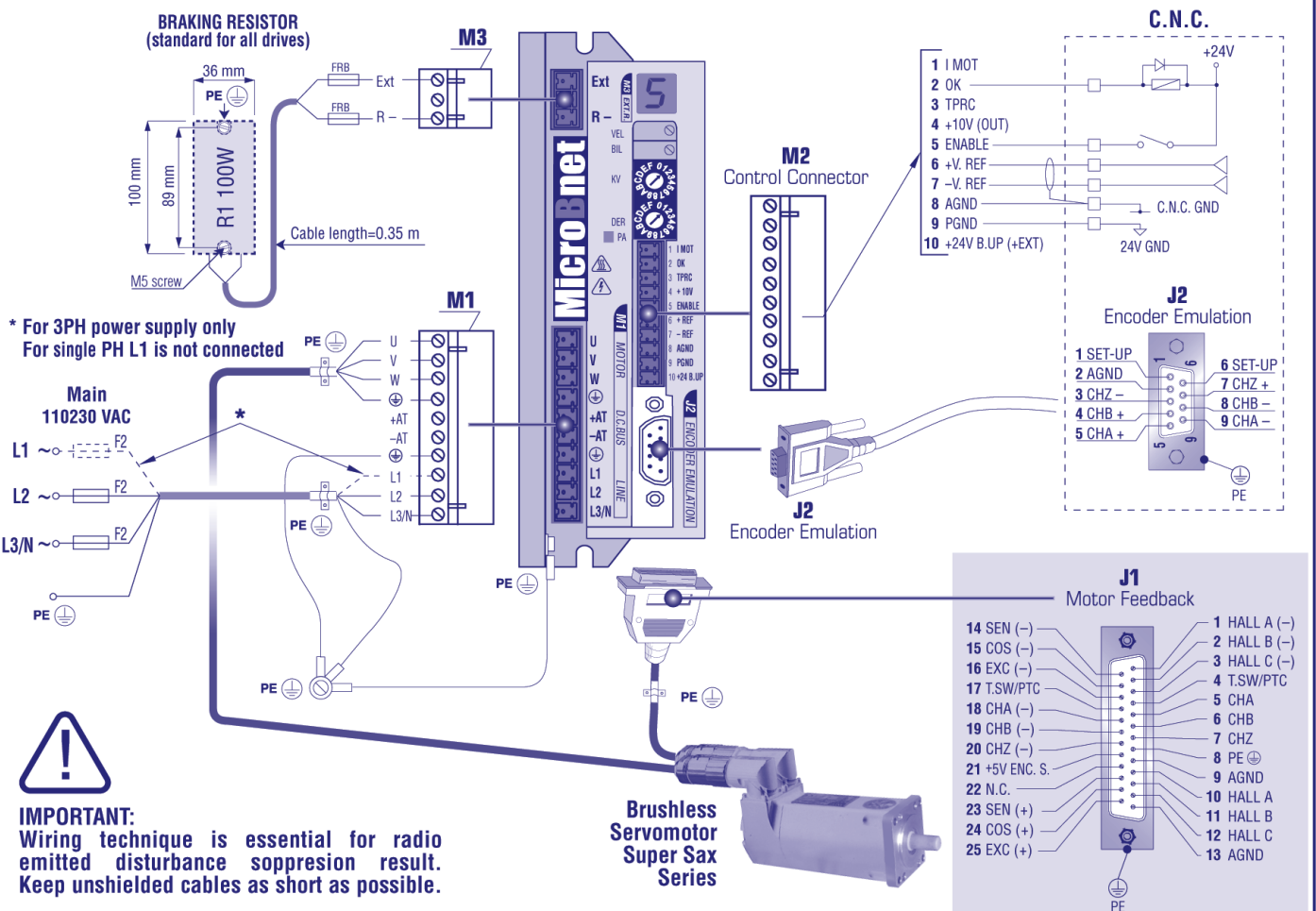
Drawings are not to scale

MECHANICAL DIMENSIONS

Quotes in mm



CONNECTION DIAGRAM



ORDERING CODE

Example:

MCB NET A - 8 / 16 - T 220 - R1 - S - 1000 / EC - RD - 00

NAME: Line of Ac brushless servodrive

TYPE: A= Analog

SIZE: 2/4 - 4/8 - 6/12 - 8/16

POWER SUPPLY MODE:

T = three phase (standard)

M = single phase (optional)

POWER SUPPLY:

220= 200 VAC (std)

110= 110 VAC (opt)

PROTECTION:

S= Standard

T= Tropicalized

AXOR:

adjustment

identification

number

ADDITIONAL FEATURES:

CONTROL MODE:

RD= Differential reference

IO = Demand current

FEEDBACK:

EC = Commutation encoder

EH = Encoder+external hall

RO= Resolver

DUMPING SIZE:

R1 = 100W external resistors (std for all sizes)

R2 = 200W external resistors (optional)