



**MCB NET A<sup>®</sup>**

*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**

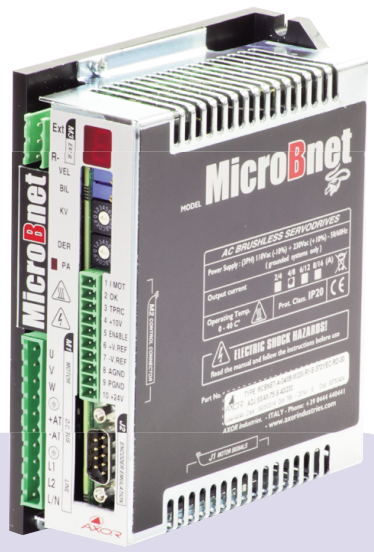
- ✓ 220 VAC - 3 PH power supply with EMC line filter and IN-RUSH circuit on board
- ✓ Three phase sinusoidal - four quadrant operation
- ✓ Optically isolated between power and signals
- ✓ Integrated regen circuit (external power resistor)
- ✓ Ventilation on-board when required
- ✓ Motor feedback from 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<sup>®</sup>** 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

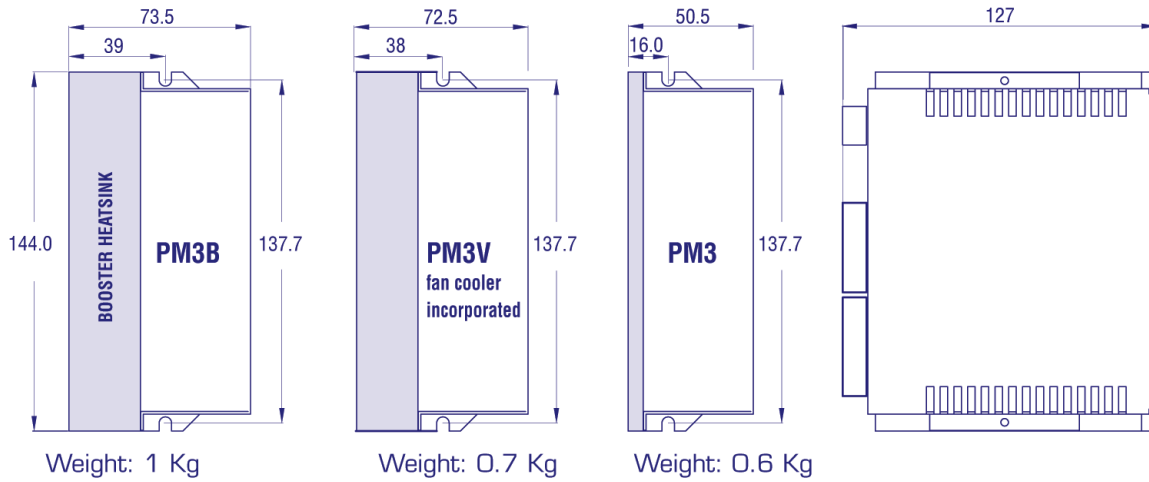
\*: After 1 year storage duration the internal electrolytic power capacitors must be re-formed. Contact Axor's technical department for details

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)			

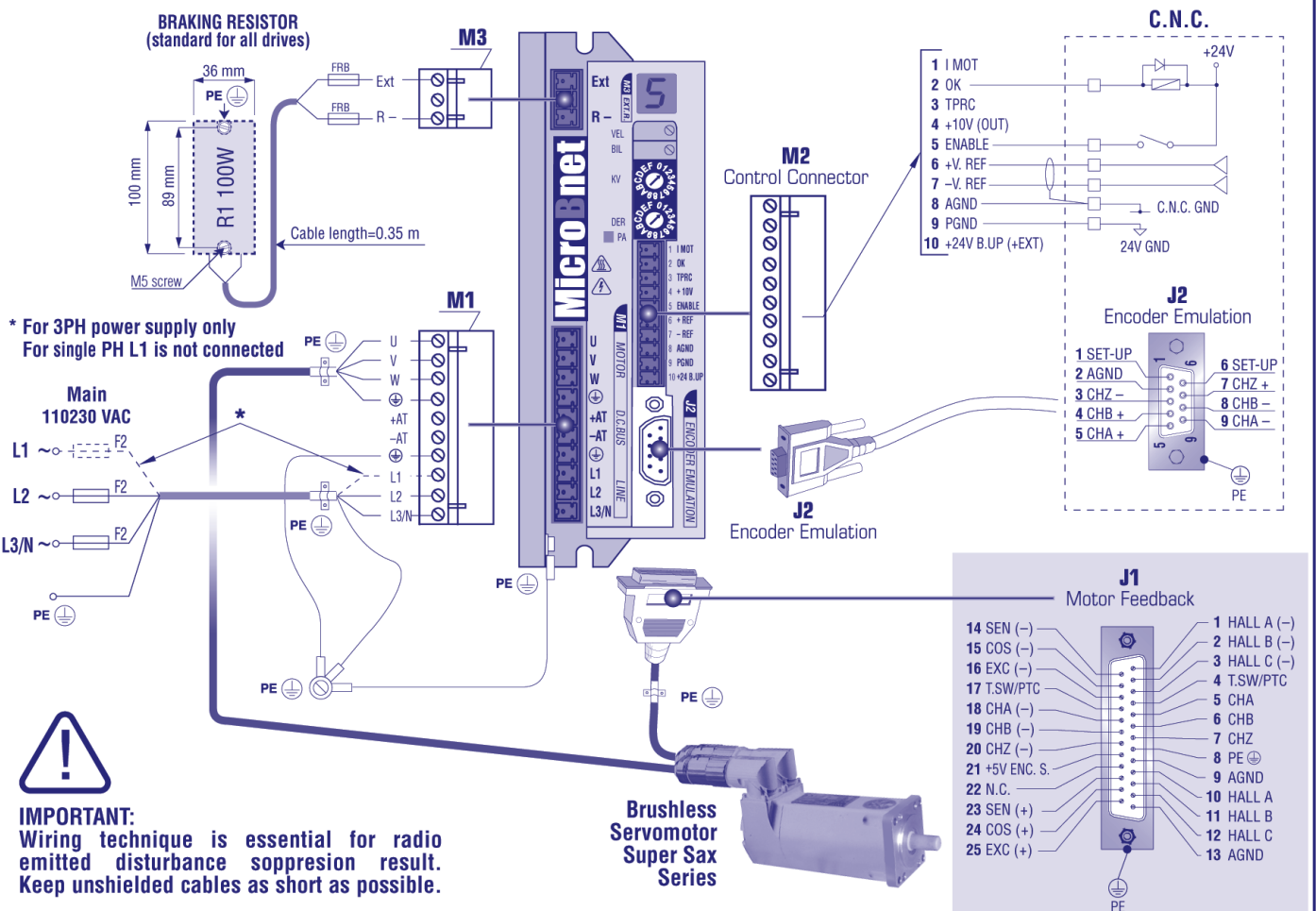
Drawings are not to scale

## 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)