

MICRO B NET®

AC BRUSHLESS SERVODRIVE

MICRO B NET® (MCBNet)

Stand alone brushless servodrive 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

- ✓ Cost effective, compact design, easy to install and use
- ✓ On-board 3 PH. power supply 110/230 VAC with integrated EMI line filter
- ✓ Optically isolated between power and signals
- ✓ Integrated regen circuit (external power resistor)
- ✓ Ventilation on-board when required
- ✓ Encoder emulation resolution divided by 1 - 2 - 4 - 8
- ✓ Fully protected against:
 - external short circuit (motor polarity)
 - over/under voltage (supply)
 - over temperature
 - absence of hall signals
- ✓ Digital input/output opto isolated

OPTIONS

- ✓ Single Phase power supply
- ✓ Boosted dumping resistors: 200 W (external)

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)

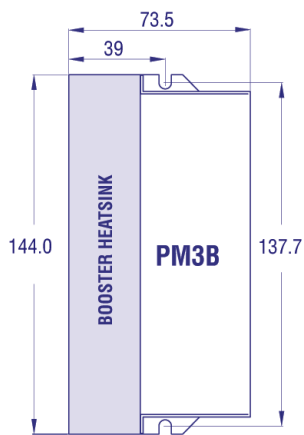
- ✓ SERVOMOTORS
 - SUPER SAX: 0.35÷7.5 Nm
- ✓ MOTOR CABLES
 - CBLS: pre-assembled shielded power and feedback cables
- ✓ TRANSFORMERS
 - TM/TT: 3ph 100 ÷ 8000 VA

*: After 1 year storage duration the internal electrolytic power capacitors must be re-formed.

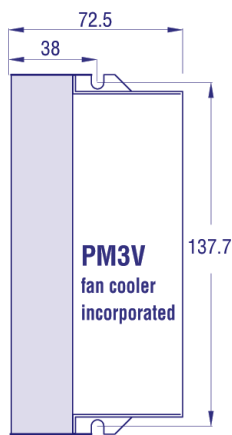
MODEL	MCB NET (° / Optocoupled)			
SIZE	2/4	4/8	6/12	8/16
Case	PM3	PM3	PM3B	PM3V
Rated Current (Arms)	2	4	6	8
Peak Current (Arms) x 2 sec.	4	8	12	16
F2 Power Supply Line Fuses (T-type=time-lag)	3 A / 250 V	5 A / 250 V	8 A / 250 V	10 A / 250 V
Power Supply (3PH)	3 x 110 Vac (-10%) ÷ 230 Vac (+10%) 50/60 Hz (single-ph as optional feature)			
Logic Supply (auxiliary for back-up only)	24 Vdc (±10% - 200mA)			

MECHANICAL DIMENSIONS

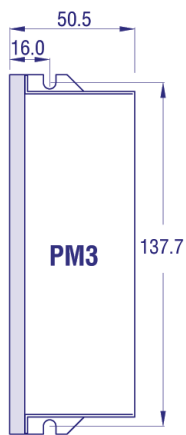
Quotation on mm



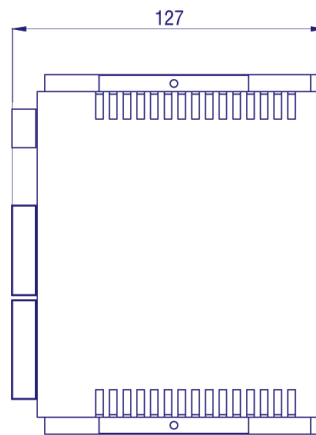
Weight: 1 Kg



Weight: 0.7 Kg



Weight: 0.6 Kg



CONNECTION DIAGRAM

