# MICRO B PLUS ® (MCBPlus)

Small servodrive for Brushless servomotors up to 8 Nm (1150 oz-in).

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

#### STANDARD FEATURES

- Three phase trapezoidal brushless, four quadrant operation  $\checkmark$
- ✓ Panel mount
- 1 Highly efficient and reliable POWER MOSFET output stage
- ✓ Single DC power supply
- ✓ Four velocity feedback modes:
  - Hall Feedback
  - Encoder Feedback + Hall Signals
    - PWM+DIR Feedback

- Armature Feedback

- Five LEDS (Red/Green) indicating operating status
- Fully protected against
  - External short circuit (motor polarity)
  - Over/under voltage (supply)
  - Overtemperature, Hall Signal absence
- Wide load inductance range (0,2-30 mH)
- 120 degrees commutation phase setting
- $\checkmark$ Four adjusting potentiometers
- Extractable screw terminals (for signals only)
- Positive / Negative Limit Switches
- Enable input available with both positive/negative logical levels

#### **OPTIONS**

- Resolver feedback
- Tachogenerator feedback
- Clock and direction mode for stepper drive replacement
- Encoder loss

# SPECIFICATIONS

Supply voltage range: (MCB PLUS 60) 20÷82 VDC (MCB PLUS 140) 40÷182 VDC (MCB PLUS 200) 55÷274 VDC Operating frequency: 22KHz Operating temperature: 0÷40°C (32÷104°F) Input reference (differential): ±10V Motor current monitor: ±7.5V (At peak current) Auxiliary output supply for encoder: +5V/12V@250mA Enable signals: +10 ÷ 30VDC Output voltage supply : +10/-10VDC@4mA





# DESCRIPTION

The **MICRO B Plus<sup>®</sup>** Servodrives have been designed as ultra compact modules, ideal solution for incremental motion control, velocity loop and positioning systems which require fast response, high torque at low speed, smooth speed control and high reliability.

#### ACCESSORIES (see specific data sheets for details)

# ✓ TRANSFORMERS

single/3ph, 100+8000 VA - TM/TT:

- ✓ NET FILTERS (for CE compliance)
- FRM/FRT: single/3ph, 2+16 Arms

MODEL		MCB PLUS 60		MCB PLUS 140						MCB PLUS 200					
SIZE (A)		14/28	20/40	2.5/5	5/10	8/16	10/20	14/28	20/40	2.5/5	5/10	8/16	10/20	14/28	20/40
CASE	STANDARD	PM2	PM2 <sup>®</sup>	PM2	PM2	PM2	PM2	PM2 <sup>®</sup>	PM2 <sup>®</sup>	PM2	PM2	PM2	PM2®	PM2 <sup>®</sup>	PM2B <sup>®</sup>
	OPTION							PM2B					PM2B	PM2B	
Nominal C	<b>urrent</b> (Adc)	14	20	2.5	5	8	10	14	20	2.5	5	8	10	14	20
<b>Peak Current</b> (Apc) x 2 sec.		28	40*	5	10	16	20	28	40*	5	10	16	20	28	40*
FDC: Supply Line Fuse (type F, M or T)*		15 A 250 V	25 A 500 V	15 A / 250 V					25 A 500 V	15 A / 250 V 25 A 500 V					
Supply (Voc)		63 Voc <b>^</b>		140 Voc^						200 Voc*					
•: FDC Fuse	Type: F=0				*: External forced cooling required *: Peak current= x 1second										

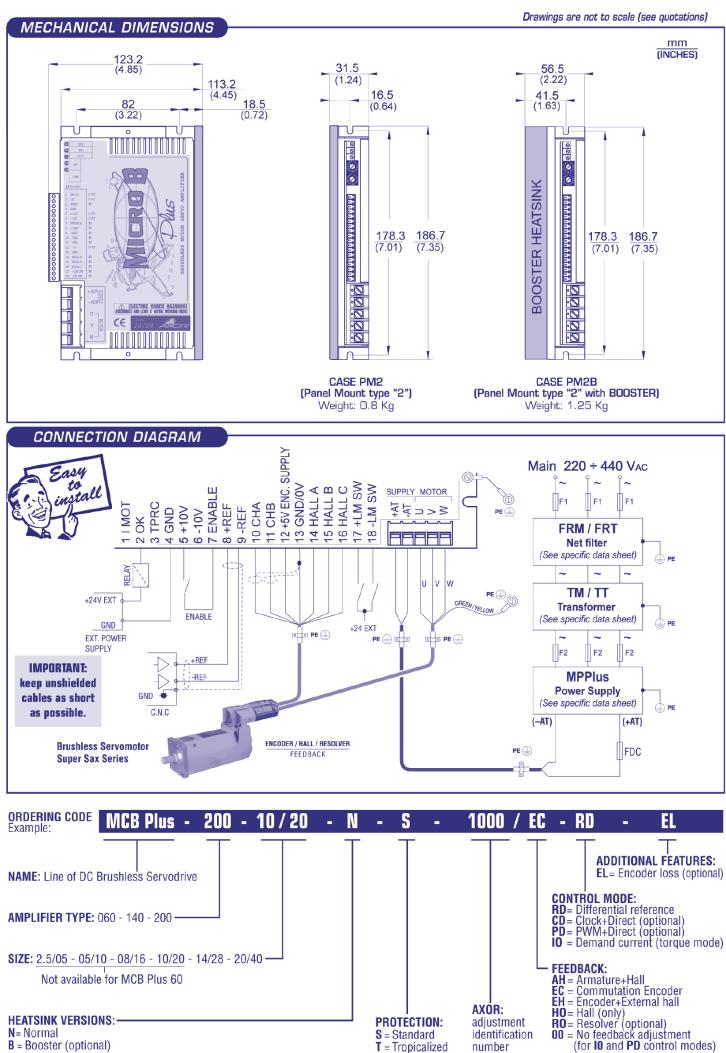
M= Medium time-laa T=Time-lag

(геглаг югсео iing require A: Recommended DC power supply

; Реак сигтепь= х т second

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B = Booster (optional)

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T = Tropicalized

number

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