



Micro B Plus

(MCB PLUS)

DC BRUSHLESS
SERVO DRIVE



P. N. : D.S. / 10.05.16 / MCBPlus / 05

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 ☹	PM2	PM2	PM2	PM2	PM2 ☹	PM2 ☹	PM2	PM2	PM2	PM2 ☹	PM2 ☹	PM2B ☹
	OPTION							PM2B					PM2B	PM2B	
Nominal Current (ADC)		14	20	2.5	5	8	10	14	20	2.5	5	8	10	14	20
Peak Current (ADC) x 2 sec.		28	40*	5	10	16	20	28	40*	5	10	16	20	28	40*
FDC: Supply Line Fuse type T (time-lag)		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 (VDC)		63 VDC ¹		140 VDC ¹						200 VDC ¹					

☼ : External forced cooling required ¹ : Recommended DC power supply * : Peak current = x 1 second

STANDARD FEATURES

- Driving motor range up to 8 Nm
- Three phase trapezoidal brushless, four quadrant operation
- Panel mount
- Highly efficient and reliable power MOSFET output stage
- Single DC power supply
- **EC** Commutation encoder Feedback
- **RD** Differential reference Control Mode
- Five LED (Red/Green) operating status signals
- Fully protected against:
 - External short circuit
 - Over/under voltage
 - Overtemperature
 - Hall Signal absence
- Wide load inductance range (0.2 - 30 mH)
- 120 degree commutation phase setting
- Five calibration potentiometers
- Extractable screw terminals
- Enable input available with both positive / negative logic level

SPECIFICATIONS

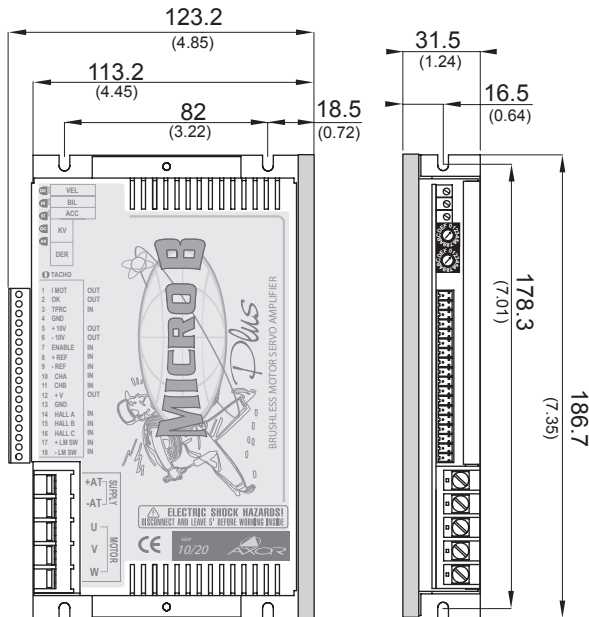
- Supply voltage range: (MCB PLUS 60) = 20 - 82 Vdc
(MCB PLUS 140) = 40 - 182 Vdc
(MCB PLUS 200) = 55 - 274 Vdc
- Operating frequency:..... 22 KHz
- Operating temperature:..... 0 - 40 °C (32 - 104 °F)
- Input reference (differential):..... ± 10Vdc
- Motor current monitor:..... ±7,5V (At peak current)
- Auxiliary output supply for encoder:..... +5V / 12V @ 250mA
- Enable signals:..... +10 - 30Vdc
- Output voltage supply:..... +10 / -10Vdc @ 4mA

OPTIONS

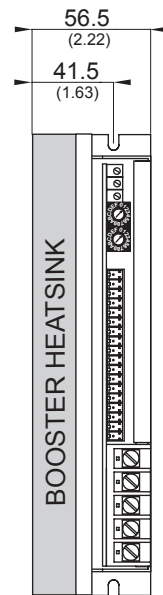
- **AH** Armature + hall Feedback
- **EH** Encoder + external hall Feedback
- **HO** Hall (only) Feedback
- **RO** Resolver Feedback
- **CD** Clock + Direct
- **PD** PWM + Direct
- **IO** Demand current (torque mode)
- **EL** Encoder Less



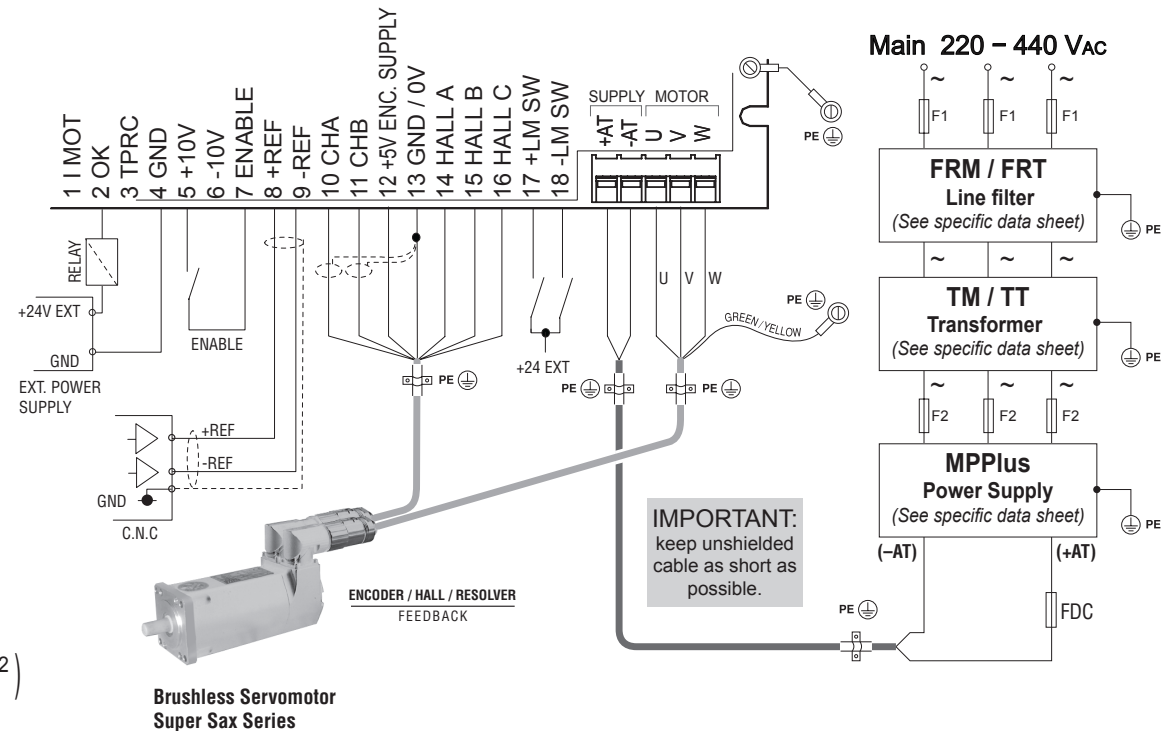
Dimensions in $\frac{mm}{(inches)}$



CASE PM2
(Panel Mount Type 2)
Weight: 0.8 Kg



CASE PM2B
(Panel Mount Type 2)
with BOOSTER
Weight: 1.25 Kg



**Brushless Servomotor
Super Sax Series**

MCB Plus - 140 - 10 / 20 - N - S - 1000 / EC - RD - EL

DRIVE LINE	PROTECTION:	FEEDBACK:	CONTROL MODE:	ADDITIONAL FEATURES:
POWER SUPPLY: 060 = 60 Vdc 140 = 140 Vdc 200 = 200 Vdc SIZE: 2.5/05 - 05/10 - 08/16 - 10/20 - 14/28 - 20/40 Not available for MCB Plus 60 HEATSINK VERSIONS: N = Normal (std), B= Booster (opt)	S = Standard T = Tropicalized AXOR adjustment identification number	EC = Commutation encoder (std) AH = Armature+hall (opt) EH = Encoder+external hall (opt) HO = Hall (only) (opt) RO = Resolver (opt) 00 = No feedback (for IO and PD control modes) (opt)	RD = Differential reference (std) CD = Clock + Direct (opt) PD = PWM + Direct (opt) IO = Demand current (torque mode) (opt)	EL = Encoder loss (opt)