



Micro B

(MCB - MCB PLUS)

DC BRUSHLESS
SERVO DRIVE



P. N. : D.S. / 15.01.18 / MCBP / 00

MODEL	MCB 60			MCB PLUS 60	MCB PLUS 140				MCB PLUS 200		
SIZE (A)	5/10	8/16	10/20	20/40	5/10	10/20	14/28	20/40	5/10	10/20	20/40
CASE	STANDARD	PM1	PM1	PM1	PM2 ☼	PM2	PM2	PM2 ☼	PM2 ☼	PM2	PM2 ☼
	OPTION							PM2B		PM2B	
Nominal Current (ADC)	5	8	10	20	5	10	14	20	5	10	20
Peak Current x 2" (ADC)	10	16	20	40*	10	20	28	40*	10	20	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
- ♦ Ixt function
- ♦ Five LED (Red/Green) operating status signals
- ♦ Fully protected against:
 - External short circuit
 - Over/under voltage
 - Overtemperature
 - Hall Signal absence
- ♦ Five calibration potentiometers
- ♦ Enable input available with both positive / negative logic level

SPECIFICATIONS

- ♦ Supply voltage range: (MCB / MCB PLUS 60) = 20 - 82 Vdc
(MCB PLUS 140) = 40 - 182 Vdc
(MCB PLUS 200) = 55 - 275 Vdc
- ♦ Operating frequency:..... 22 KHz
- ♦ Operating temperature:..... 0 - 40 °C (32 - 104 °F)
- ♦ Input reference (differential):..... ± 10 Vdc
- ♦ Motor current monitor:..... ±7,5 V (At peak current)
- ♦ Auxiliary output supply for encoder:..... +5 Vdc / 12 Vdc
- ♦ Enable signals:..... +10 - 30 Vdc
- ♦ Output voltage supply:..... +10 V / -10 V @ 4mA

OPTIONS

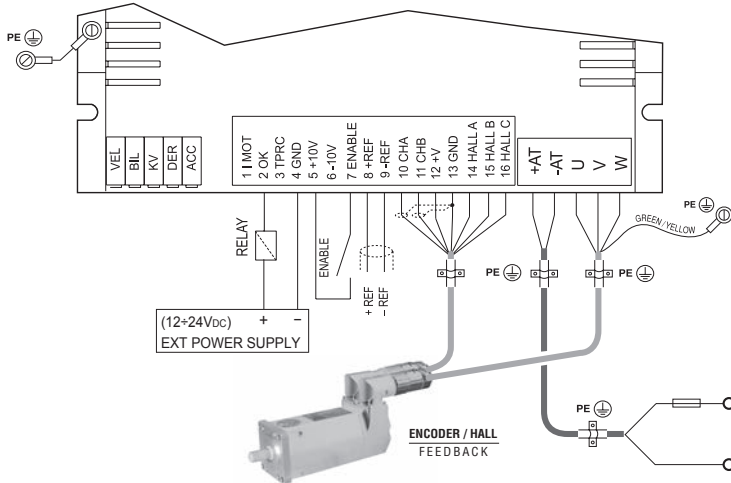
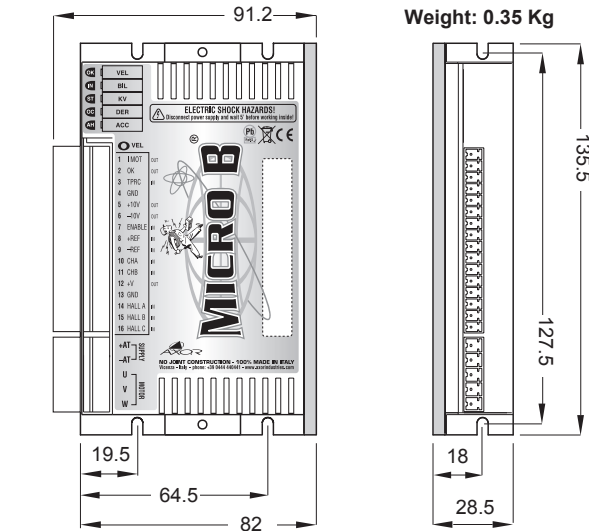
- ♦ **AH** Armature + hall Feedback
 - ♦ **EH** Encoder + external hall Feedback
 - ♦ **H0** Hall (only) Feedback
 - ♦ **IO** Demand current (torque mode)
 - ♦ **RO** Resolver Feedback
 - ♦ **CD** Clock + Direct
 - ♦ **PD** PWM + Direct
 - ♦ **EL** Encoder Less
- For MCB PLUS only



Dimensions in mm

CASE PM1

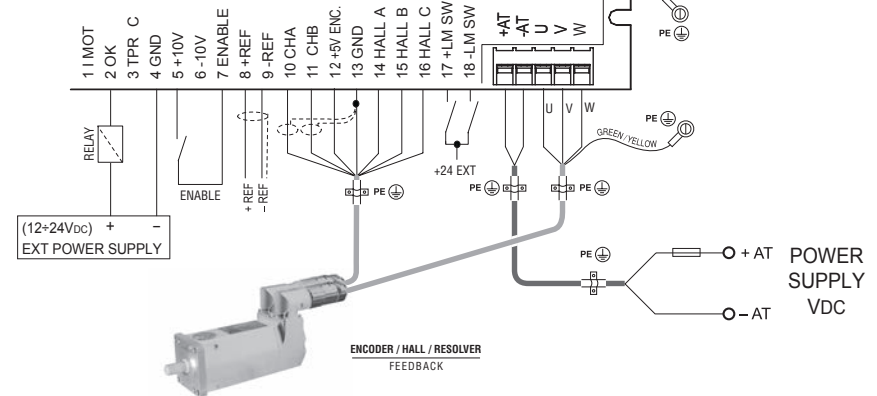
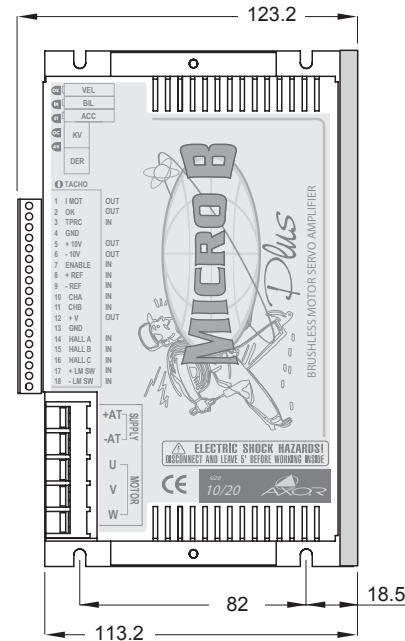
Weight: 0.35 Kg



IMPORTANT:
keep unshielded
cable as short as
possible.

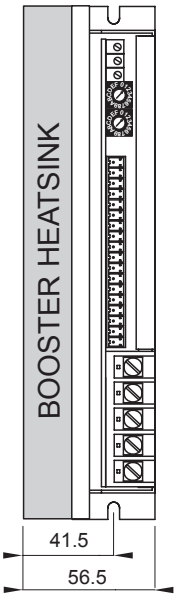
CASE PM2

Weight: 0.8 Kg



CASE PM2B

Weight: 1.25 Kg



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

DRIVE MODEL:

MCB - 60
MCB PLUS - 60 / 140 / 200

SIZE: see table on reverse

HEATSINK VERSIONS: N = Normal (std), B= Booster (opt)

PROTECTION:

S = Standard
T = Tropicalized

AXOR adjustment

FEEDBACK:

EC = Commutation encoder (std)
AH = Armature+hall (opt)
EH = Encoder+external hall (opt)
HO = Hall (only) (opt)
RO = Resolver (MCB Plus only) (opt)

CONTROL MODE:

RD = Differential reference (std)
IO = Demand current (torque mode) (opt)
CD = Clock + Direct (MCB Plus only) (opt)
PD = PWM + Direct (MCB Plus only) (opt)

ADDITIONAL FEATURES:

EL = Encoder loss
(MCB Plus only) (opt)