



MICROSPEED PLUS

DC SERVO AMPLIFIERS



MICROSPEED PLUS® (MCSPPlus)

Very compact servo amplifier for DC servomotors.
Driving range up to 11 Nm (1600 oz.-in.)

Typical applications are:
Robotics, X-Y Tables, Medical Equipment,
Textile Equipment, Conveyors, Graphic Machinery,
Packaging Machinery, Positioners,
Converting Machinery, Feeders.

STANDARD FEATURES

- ✓ Ultra compact design
- ✓ Extremely favorable cost to performance ratio
- ✓ Extremely suitable for personalization
- ✓ Simple installation and use
- ✓ SMT technology
- ✓ Panel mount
- ✓ Single DC power supply
- ✓ Armature feedback
- ✓ Tachogenerator feedback
- ✓ Torque mode (demand current)
- ✓ Positive / Negative Limit Switches

OPTIONS

- ✓ Encoder feedback
- ✓ PWM + DIR mode

SPECIFICATIONS

- ✓ Supply voltage range:
 - (MCS Plus 60) 20÷82 Vdc
 - (MCS Plus 140) 40÷182 Vdc
 - (MCS Plus 200) 55÷275 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 (optional) +5V/+12V@250mA
- ✓ Enable and LIM sw, signals +10÷30Vdc
- ✓ Output voltage supply +10/-10V@4mA



DESCRIPTION

MICROSPEED PLUS® Dc amplifiers are the 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. There are many different velocity modes: tachogenerator feedback, armature feedback, encoder feedback, torque mode and PWM+ Direction.

ACCESSORIES (see specific data sheets for details)

- ✓ **SERVOMOTORS**
 - Sax 100: 0.045÷2.7Nm (6.4÷386 oz.-in.)
 - Sax 350: 0.7÷1.8Nm (100÷257 oz.-in.)
 - Sax 500: 2.8÷8Nm (400÷1143 oz.-in.)
 - Sax 700: 0.1÷8Nm (14÷1143 oz.-in.)
- ✓ **GEARBOXES**
 - Rex 100: 5 flange sizes, R ratios 1/3÷1/216
- ✓ **POWER SUPPLY** (stand alone)
 - MPPlus: 63÷200 Vdc out, 30 A dc, 100÷800W braking power
- ✓ **TRANSFORMERS**
 - TM/TT: single/3ph 100÷8000 Va
- ✓ **NET FILTERS** (for CE compliance)
 - FRM/FRT: single/3ph, 2÷16 Arms

MODEL	MCS PLUS 60		MCS PLUS 140						MCS PLUS 200						
	SIZE (A)	14/28	20/40	1/2	2.5/5	6/12	10/20	14/28	20/40	1/2	2.5/5	6/12	10/20	14/28	20/40
CASE	STANDARD	PM2 [Ⓢ]	PM2 [Ⓢ]	PM2	PM2	PM2	PM2	PM2 [Ⓢ]	PM2 [Ⓢ]	PM2	PM2	PM2	PM2 [Ⓢ]	PM2 [Ⓢ]	PM2 [Ⓢ]
	OPTION	PM2B	PM2B					PM2B	PM2B				PM2B		
Rated Current (A dc)	14	20	1	2.5	6	10	14	20	1	2.5	6	10	14	20	
Peak Current (A dc) x 2 sec.	28	40*	2	5	12	20	28	40*	2	5	12	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					
Supply (Vdc)	63 Vdc ▲		140 Vdc ▲						200 Vdc ▲						

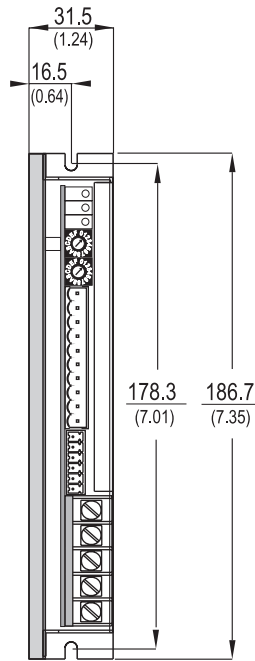
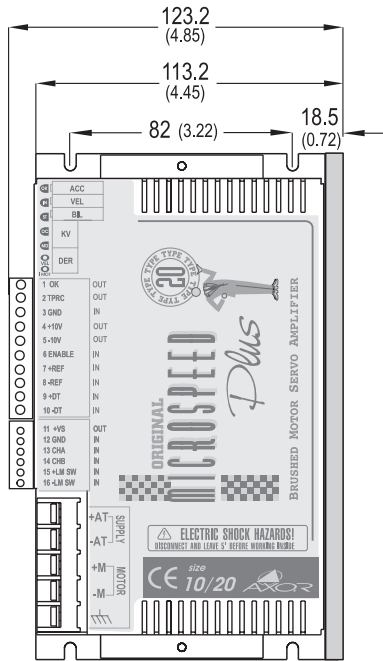
*: FDC Fuse Type: F=Quick-acting
M= Medium time-lag
T=Time-lag

Ⓢ: Forced cooling required
*: Peak current= x 1 second

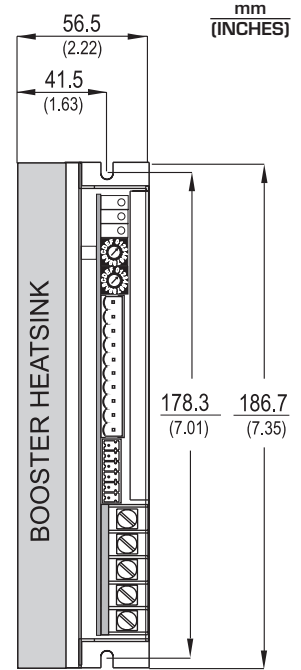
▲: Recommended DC power supply

Drawings are not to scale (see quotations)

MECHANICAL DIMENSIONS

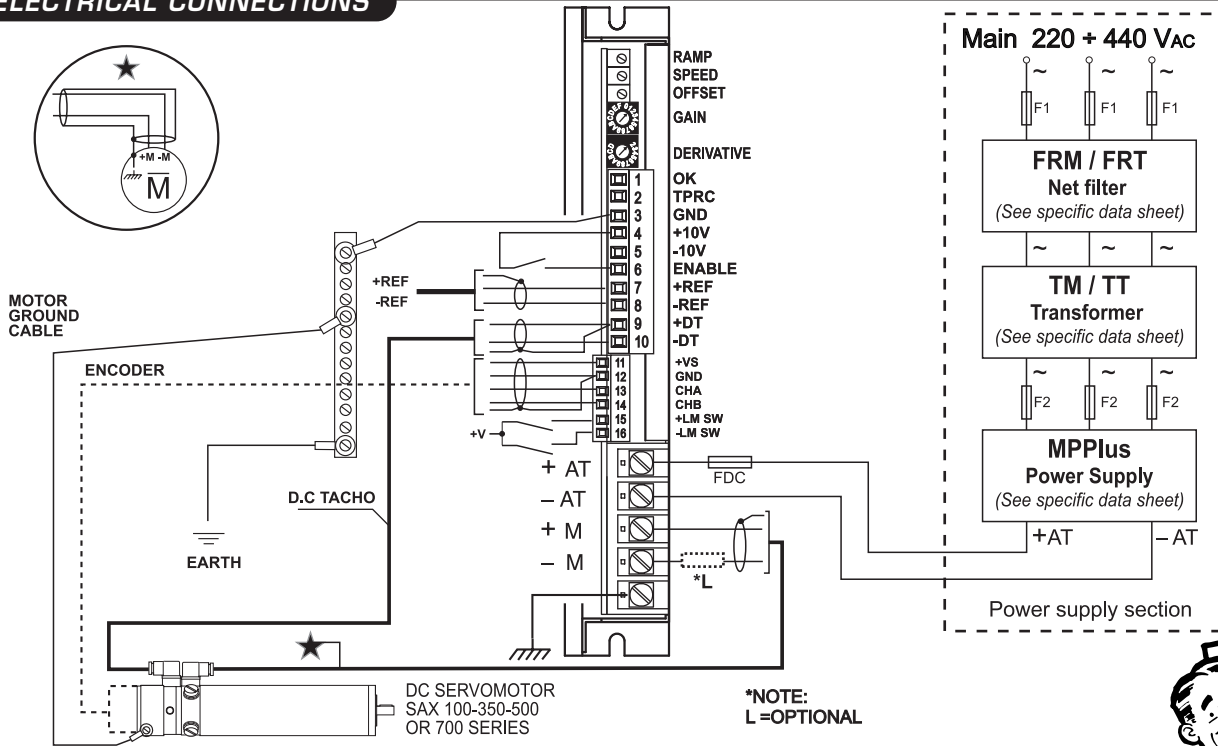


CASE PM2
(Panel Mount type "2")
Weight: 0.75 Kg
(1.63 Lbs)



CASE PM2B
(Panel Mount type "2 with BOOSTER")
Weight: 1.20 Kg
(2.62 Lbs)

ELECTRICAL CONNECTIONS



ORDERING CODE
Example:

MCS Plus - 200 - 10 / 20 - N - S - 1000 / TO - RD

NAME: Line of Servodrives

AMPLIFIER TYPE: 060 - 140 - 200

SIZE: 01/02 - 2.5/05 - 06/12 - 10/20 - 14/28 - 20/40

Not available for MCS Plus 60

HEATSINK VERSIONS:
N = Normal
B = Booster

PROTECTION:
S = Standard
T = Tropicalized

AXOR
adjustment
identification number

CONTROL MODE:
RD = Differential reference
IO = Demand current (torque mode)
PD = PWM+Direct (option)

FEEDBACK :
TO = Tachogenerator (DC)
AO = Armature
EO = Encoder (option)

Specifications subject to change without notice. This document has been carefully checked. However, Axor does not assume any liability for errors or inaccuracies.

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