



# MASTERSPEED®

## DC SERVODRIVE



### MASTERSPEED® (MTS)

Stand alone; four quadrant bidirectional servodrives for controlling DC Servomotors up to 15 Nm (2142.8 oz.-in.)

Typical applications are :  
**Medical Equipment, Milling Machines, Conveyors, Packaging Equipment, Storage Systems, Printing Machines, Feeders, Textile Equipment.**

#### STANDARD FEATURES

- ✓ Internal power supply and dumping circuit
- ✓ Ventilation on board when required
- ✓ Surface Mount Tecnology
- ✓ IGBT or POWER MOSFET bridge
- ✓ Removable power module
- ✓ High industrialization
- ✓ Torque mode
- ✓ Tachogenerator feedback
- ✓ Armature feedback

#### OPTIONS

- ✓ Encoder feedback
- ✓ External dumping resistor (P=400, 800W)

#### SPECIFICATIONS

- ✓ Supply voltage range
  - (MTS60) 22÷44 VAc
  - (MTS140) 30÷95 VAc
  - (MTS200) 45÷145 VAc
- ✓ Output voltage 1.35xVAc Supply
- ✓ Input reference (differential) ±10Vdc
- ✓ Input-output demand current ±10Vdc
- ✓ Out. voltage for external use +10/-10Vdc@2.5 mA
- ✓ Enable signals +10÷30Vdc
- ✓ PWM frequency 20 KHz
- ✓ Motor current monitor ±7.5 VDC (at peak current)
- ✓ Humidity (without condensation) 10÷95 (%)
- ✓ Operating temperature 0÷40°C (32÷104°F)



#### DESCRIPTION

The **Masterspeed®** Servodrive comes complete with its own power supply, regenerative circuit and with detachable plug-in terminals for easy installation.

The modular line makes the **Masterspeed®** the ideal solution for 1 to 3 axis applications. If required, fan cooling is incorporated into each amplifier module. Usually, the external choke isn't required.

#### ACCESSORIES

(see specific data sheets for details)

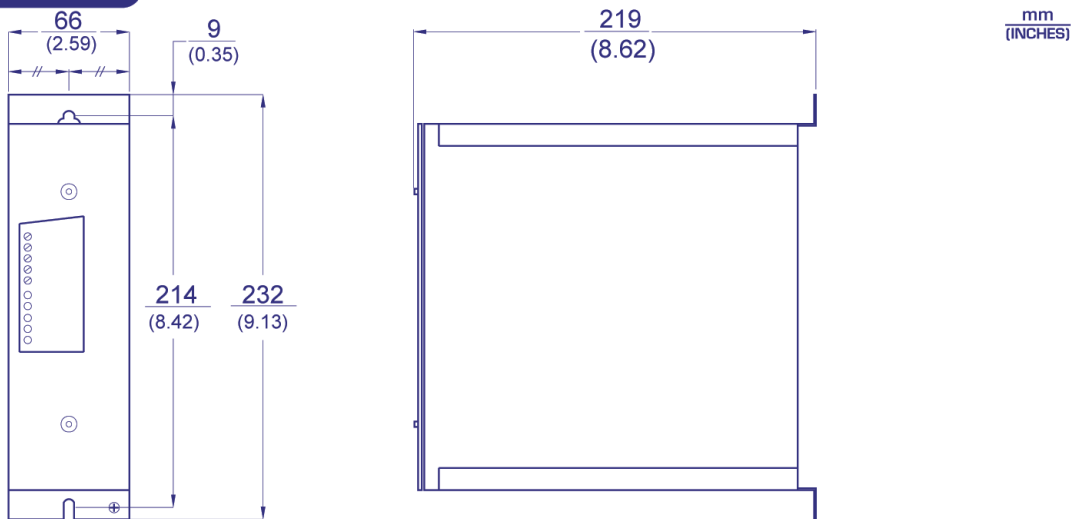
- ✓ **TRANSFORMERS**
  - TM/TT: single/3ph, 100÷8000 VA
- ✓ **NET FILTERS (for CE compliance)**
  - FRM/FRT: single/3ph, 2÷16 Arms

MODEL	MTS 60						MTS 140						MTS 200					
	4/8	8/16	10/20	14/28	20/40	25/50	4/8	8/16	10/20	14/28	20/40	25/50	4/8	8/16	10/20	14/28	20/40	25/50
<b>Rated Current</b> (Arms)	4	8	10	14	20	25	4	8	10	14	20	25	4	8	10	14	20	25
<b>Peak Current</b> (Arms) x 2 sec.	8	16	20	28	40*	50*	8	16	20	28	40*	50*	8	16	20	28	40*	50*
<b>F2:</b> <b>Supply Line Fuses</b> (T-type = time-lag)	4 250 V	8 A 250 V	10 A 250 V	14 A 250 V	20 A 250 V	25 A 250 V	4 A 250 V	8 A 250 V	10 A 250 V	14 A 250 V	20 A 250 V	25 A 250 V	4 A 250 V	8 A 250 V	10 A 250 V	14 A 250 V	20 A 250 V	25 A 250 V
<b>Supply</b> (VAc) (3PH)	<b>44 VAc ^</b>						<b>95 VAc ^</b>						<b>145 VAc ^</b>					

^: Recommended AC power supply \* : Peak current= x 1 second

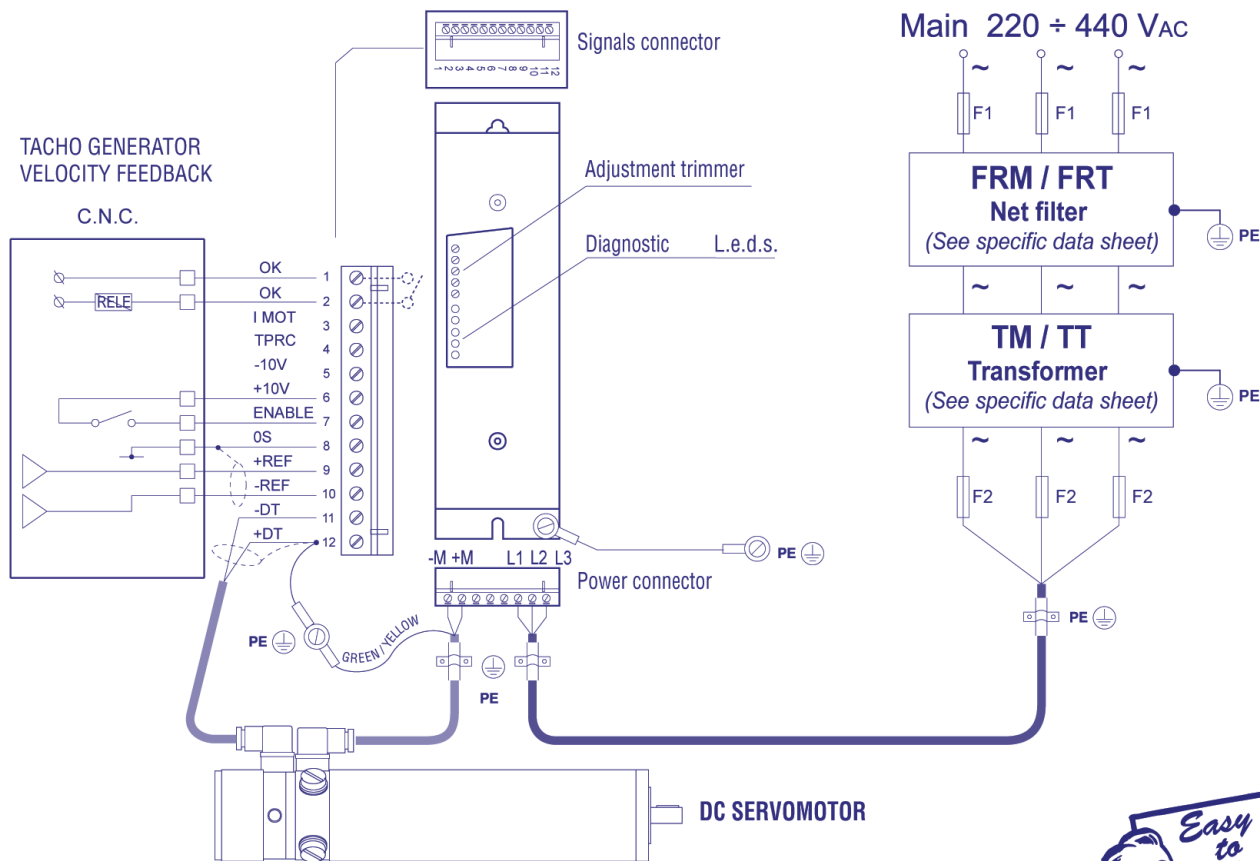
Drawings are not to scale (see quotations)

## MECHANICAL DIMENSIONS



Weight: 2.7 Kg

## CONNECTION DIAGRAM



**ORDERING CODE**  
Example:

**MTS - 200 - 10 / 20 - RX - S - 1000 / T0 - RD**

**NAME:** Dc Servodrive

**AMPLIFIER TYPE:** 060 - 140 - 200

**SIZE:** 04/08 - 08/16 - 10/20 - 14/28 - 20/40 - 25/50

**DUMPING SIZE:**

**RX** = internal standard resistors

**R4** = 400W external resistors (optional)

**R8** = 800W external resistors (optional)

**PROTECTION:**  
**S** = Standard  
**T** = Tropicalized

**AXOR:**  
adjustment identification number

**CONTROL MODE:**

**RD** = Differential reference  
**IO** = Demand Current (torque mode)  
**PD** = PWM+DIR (optional)

**FEEDBACK:**

**T0** = Tachogenerator (DC)  
**A0** = Armature  
**E0** = Encoder (optional)  
**00** = No feedback adjustment (for IO and PD control modes)