servo driver

MC-200-7220



Nippon Pulse

has provided a wide array of motion control solutions, including industry leading stepper motors, the innovative Linear Shaft Motor, controllers, drivers and networks.

A wide range of product offerings and expertise in application engineering makes NPM a discerning partner in motion control technology and implementation

Miniature AC servomotor with high torque and high-resolution

DDmotor has characterristics of low speed and high torque (compared to general servo motors) because this motor is assumed that it will drive directry without using a gear(a deceleration mechanism).
Its equipped sensor specialized in high-precision positioning, and It is possible to receive the shaft load directly by adopting high-load bearing as standard.
Advantages that can be generally obtained by using a gearless structure are described below.

- Silent: This motor leads to noise reduction since it has no vibraition sound.
- High precision: It is possible to determine high precision positioning by eliminating a machanical error due to backlash.
- Weight and spase saving
- Improving acceleration
- Backdrivability

Servo driver

we selected a number of suitable drivers for the miniature Servomotors

- MC-200-7220 (box version)
- MC-200C-6018D (Ultra-small servo driver)

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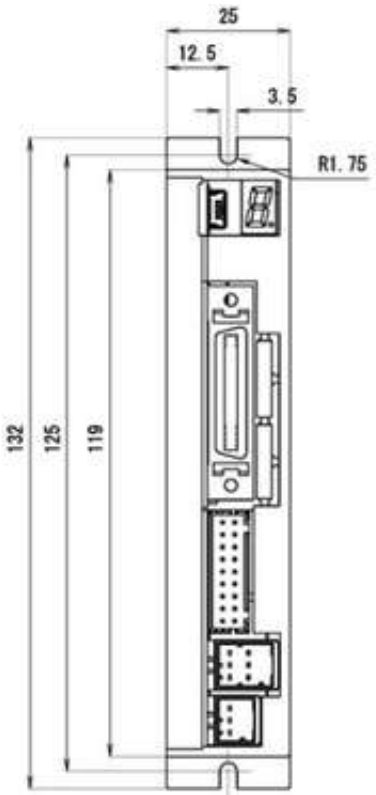
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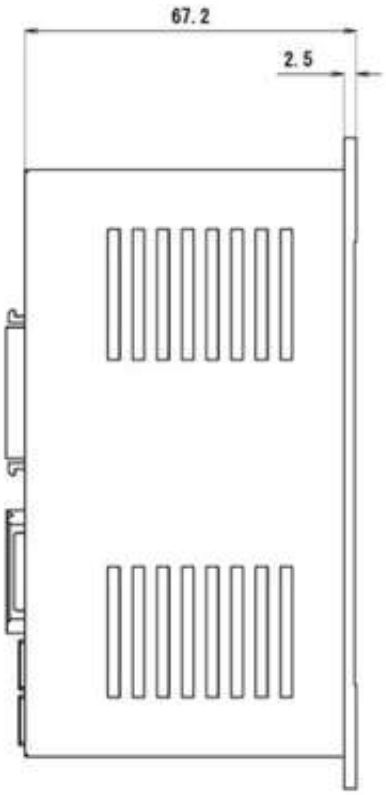
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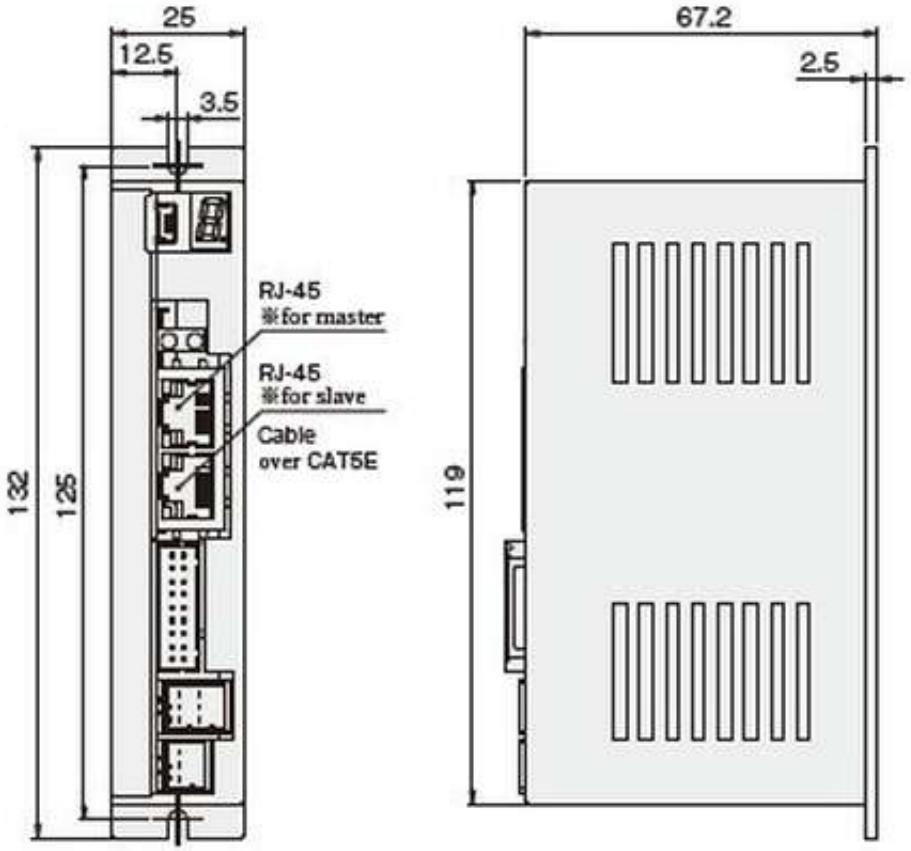
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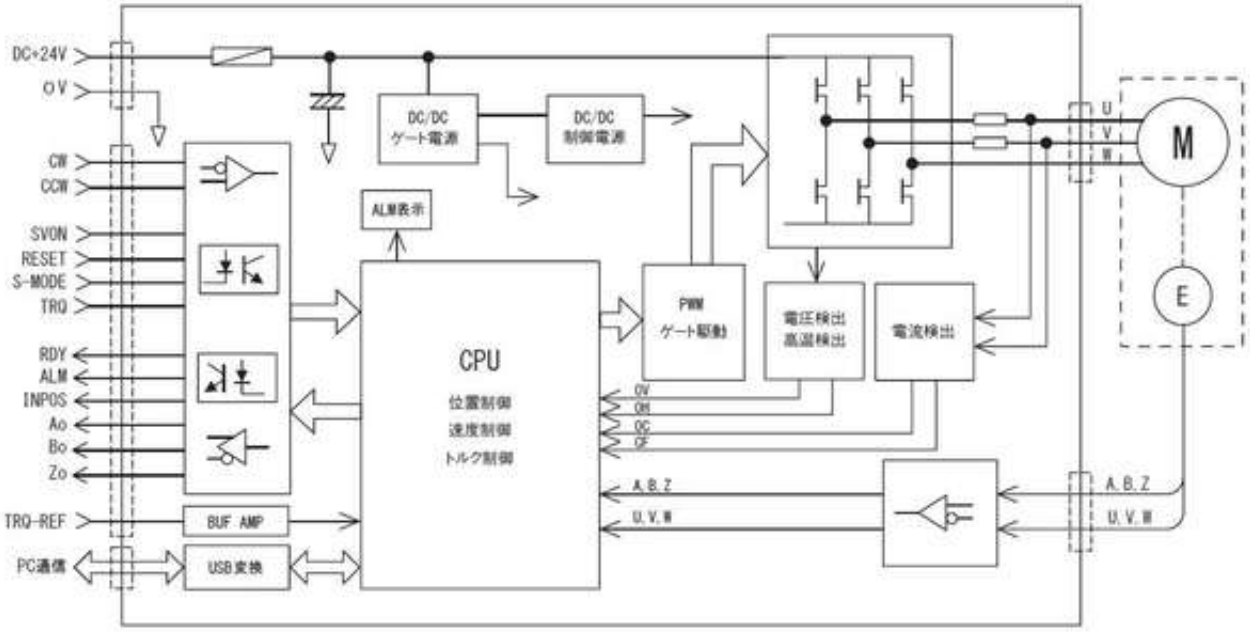
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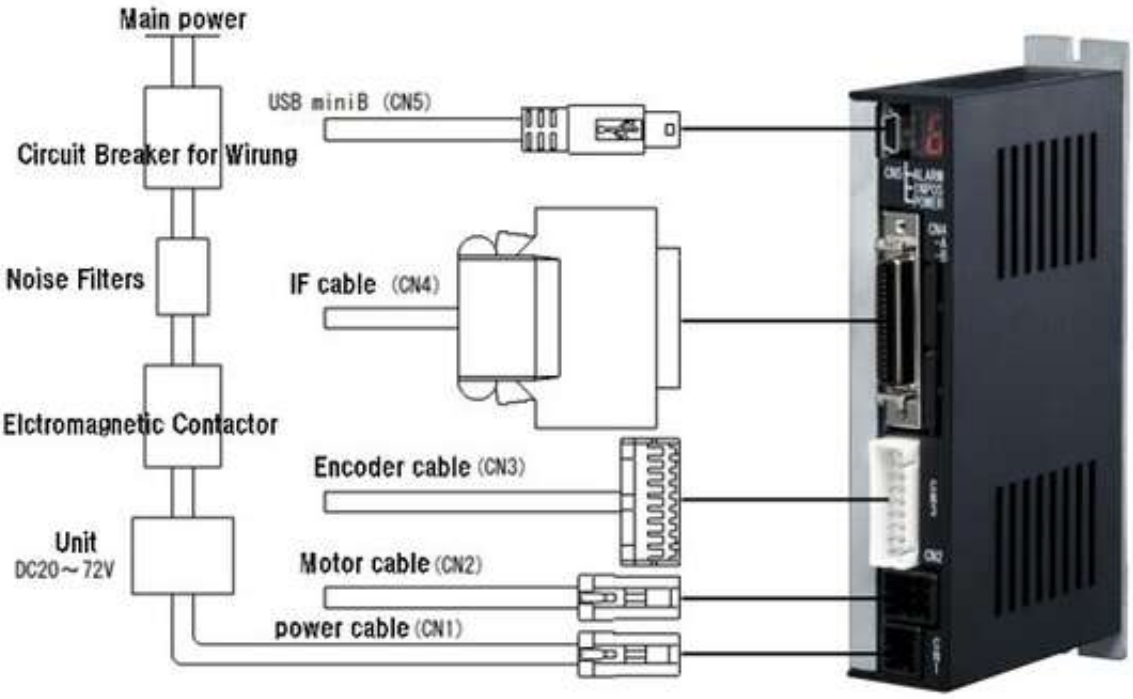
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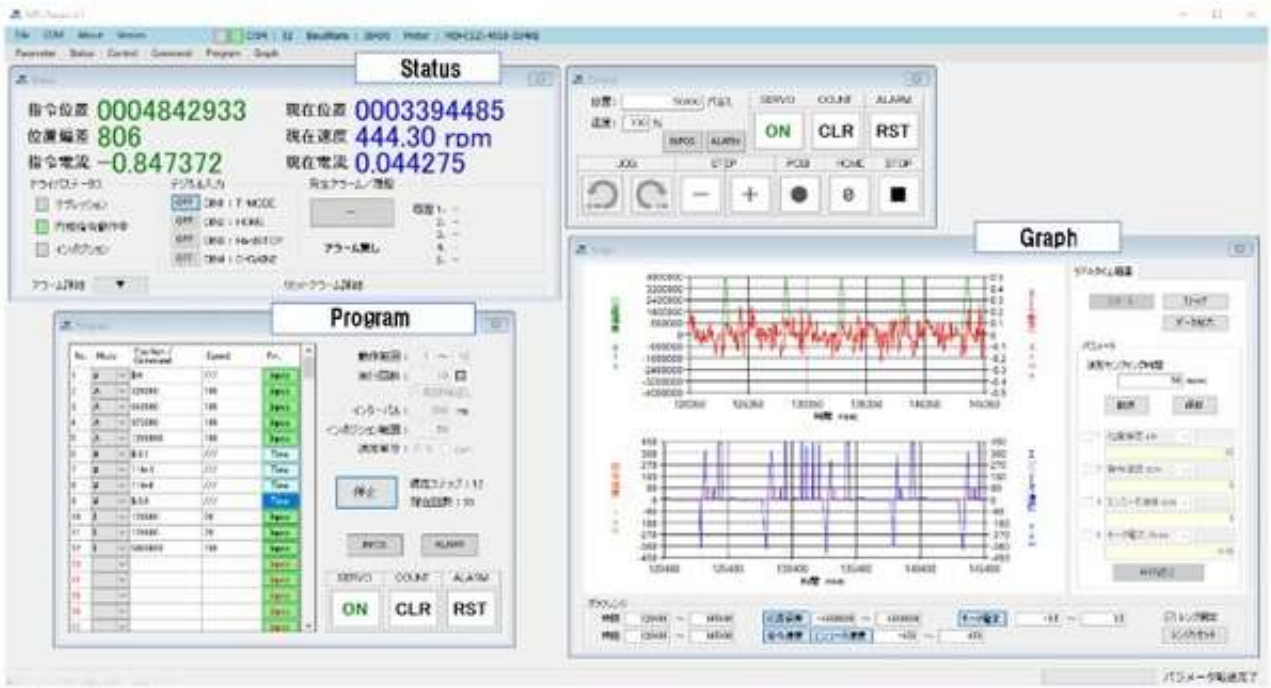
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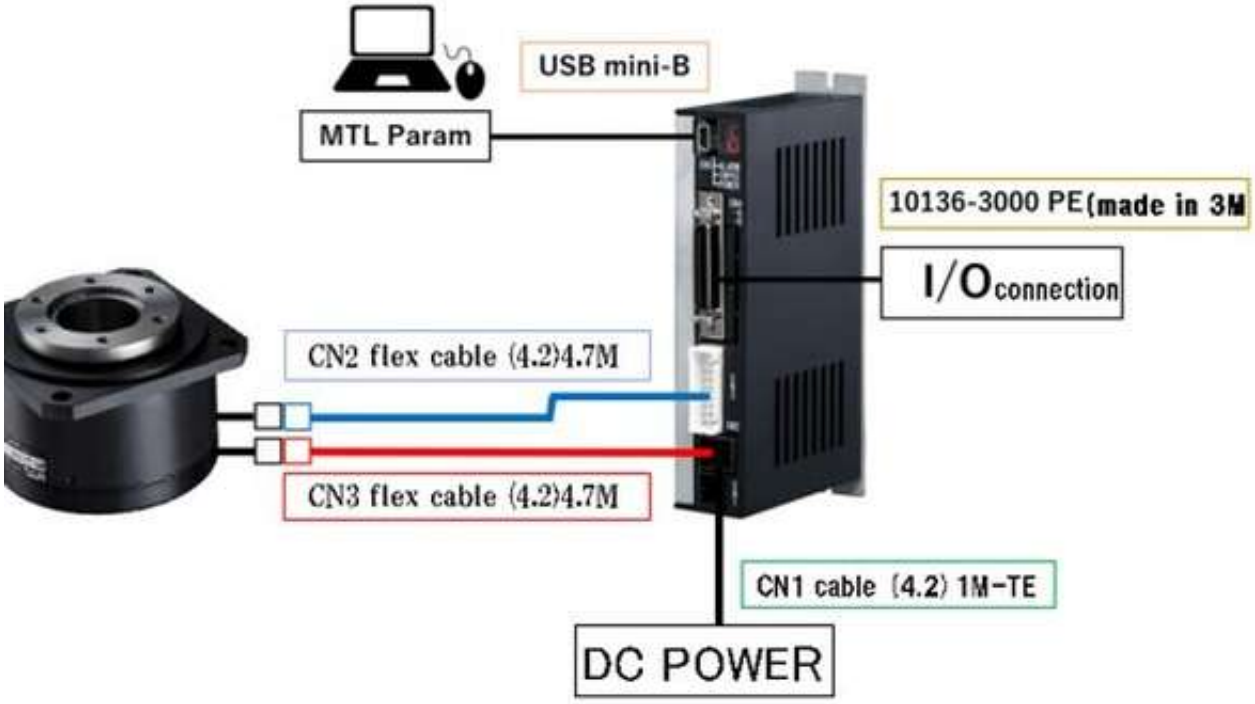
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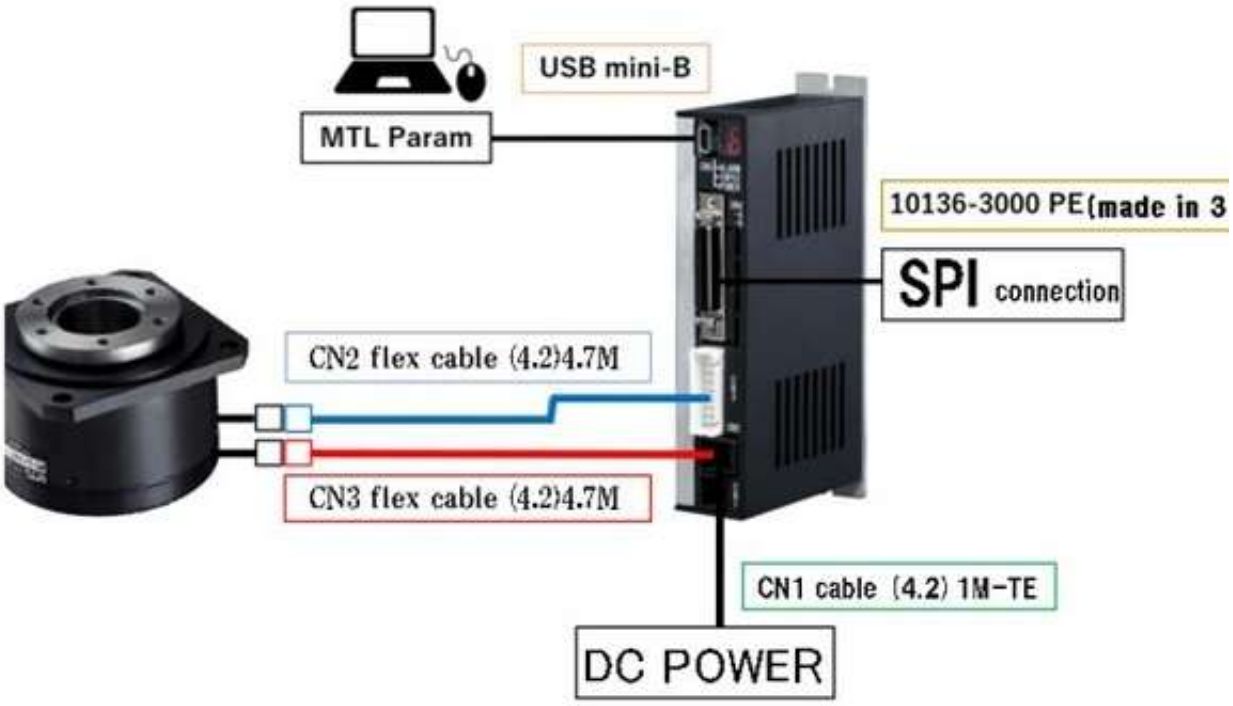
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Details

MC-200-7220servo driver

MC-200-7220B (EtherCAT)

part nr.	MC-200-7220□ □→Blank: USB, A?I/O, D?SPI
Supply power	Rated DC48V (DC20V-5%?72V+5?)
Rated output current	3.5 Arms
Peak output current(Less than 1 second)	20 Arms

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Drive type	Sine wave PWM drive(50kHz)
Drive method	Position?Speed?Current control
Protection functions	Over current, overload, overvoltage, under voltage, heat,encoder error, p
Communication functions	USB2.0 mini-B parameter settings, status monitoring, command control
Speed position commands	driver?Maximum 2.5MHz(multiplied by 1) forward-reverse pulse train me method, two-phase pulse method
Torque commands	Voltage command (-5 to +5V)12bit
Auxiliary signal inputs	Servo on, alarm reset, Gain switch, zero point return, other general-purpo
Signal outputs	Positioning completed, alarm, analog monitor output (current/speed/posit difference)encoder (Incremental?ABZ?Absolute?RS422 ASCII code?b
Command method	I/O, SPI, USB and other soon
External dimensions	132×67.2×25??
Mass	160 g
External command method	Supports EtherCAT CiA402 drive profile (select version -7220B

options:

Cables

Model	Connection
CN1 cable(4.2)1M-TE	Between power and driver(1m)
CN2 bent cable(4.2)0.7M	Motor cable?Extension between motor and driver (Total1m)
CN2 bent cable(4.2)2.7M	Motor cable?Extension between Motor and Driver(Total3m)
CN2 bent cable(4.2)4.7M	Motor cable?Extension between motor and driver(Total5m)
CN3 bent cable(4.2)0.7M	Encoder cable : Extension between motor and driver(Total1m)
CN3 bent cable(4.2)2.7M	Encoder cable : Extension between motor and driver(Total3m)
CN3 bent cable(4.2)4.7M	Encoder cable : Extension between motor and driver(Total5m)
CN5 cable	USB2,0 cable with ferrite core : Between PC and driver(1m)

Parameter setting, status monitoring, command control are possible. The program function allows each drive control by a driver only.

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Specifications

Product type	driver	**Supplier**	MTL	**AC/DC**	DC
Level	box	**Max output frequency**	Sine wave PWM drive(50kHz)	**No of axes**	1
Bus type	I/O, SPI, USB	**Motor phase current**	3.5 A	**Driver/Controller**	Driver
Type of driver	Universal				

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