

Mecapion vs series (user manual) Instruction Manual

Manual Version : [ver 3.6]

Software Version : Higher than 2.35

The first edition : 2002. 01. 02.

A revised edition : 2007. 02. 01.

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Thank you for purchasing Mecapion's Series

Read this instruction manual thoroughly before installation, operation, maintenance or inspection of this product.

Symbols for Safe Operation

In this manual, NOTES FOR SAFE OPERATION are classified as "WARNING" or "CAUTION".



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to personnel.



Indicates a potentially hazardous situation which, may result in minor or moderate injury to personnel, and possible damage to equipment if not avoided. It may also be used to alert against unsafe practices.

- ◆ Items described in Caution may also result in a vital accident in some situations. In either case, follow these important notes.

Note for Safe Operation

◆ INSTALLATION



- Make sure to keep the install direction.
- Do not throw down and prevent from impact.
- Never use the equipment where it may be exposed to splashes of water, corrosive or flammable gases, or near flammable materials.(Failure to observe this warning may lead to electric shock or fire)
- Use the equipment in indoors.

◆ WIRING

- For the input power supply of Servo drive, surely use AC200~230[V]
- Make sure to ground the ground terminal.
- Never connect the AC main circuit power supply to servo motor.
- Never connect the AC main circuit power supply to output terminals U,V and W.
- Use the compression terminal with insulated tube when wire the power terminal.
- Make sure that Power cable(U,V,W) and Encoder cable are separated when connected.
- If the motor moves by Machine, please use Robot Cable.
- Disconnect the power wires surely after the input power is off and "CHARGE" Lamp is completely OFF.
- Surely use Twist pair shield cable for pulse command signal (PF+, PF-, PR+, PR-), speed command signal(SPDCOM), torque limit signal(TRQLIM).

◆ OPERATION

- Before starting operation, check and adjust each menu.
- During operation, do not touch the shaft of motor.
- During operation, do not touch the heat sink.
- Do not connect or disconnect CN1,CN2,CN3 connectors while power is applied to the circuit.

◆ GENERAL PRECAUTIONS

- Specifications are subject to change for product modifications and improvements. In this case, we issue the manual on updated Version NO.

◆ Precaution at First Setup



- Make sure the Power Supply voltage (AC200~230[V]) and wiring before power is applied to the circuit.
- At first power apply, applied the power on Servo-OFF status.
- Verify the model No. of motor and the No. of Encoder pulse before power is applied to the circuit.
- Set the motor ID on menu[PE-201], number of Encoder Pulse on menu [PE-204]
- After finishing the above, set the operation mode of servo drive by linking upper motion controller on the menu [PE-601].
- Wire CN1 if servo drive according to each operation mode referring to “1.2 System Construction”(Refer to “5.5 Example of connecting to upper Controller”)
- The ON/OFF state of each CN1 input contacts can be verified at CN1 contacts state.

◆ MAINTENANCE AND INSPECTION



- After turning OFF Control power supply L1C, L2C, and main power supply L1, L2, L3 then wait enough time (Until the charge lamp is turned off), Proceed the maintenance and inspection. High voltage still remains in the internal condenser.
- Never touch the high-voltage terminals at first power apply.
- Do not repair, inspect, and replace the component except for authorized person.
- The alteration of products is not allowed in any case

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◆ **Guarantee Letter**

◆ **Revision History**

