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CHUNYE MS1H3-55C15CD-A334Z

CHUNYE MS1H3 Series Servo Motor User Manual

Models: MS1H3-85B15CD-A331Z, MS1H3-85B15CD-A334Z, MS1H3-55C15CD-A331Z, MS1H3-55C15CD-A334Z

1. Introduction

This user manual provides essential information for the safe and efficient operation, installation, and maintenance of the CHUNYE MS1H3 Series Servo Motors. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage or injury. The CHUNYE MS1H3 series servo motors are designed for applications requiring precise control of position, velocity, and torque.

2. Product Overview and Features

The CHUNYE MS1H3 Series Servo Motors offer advanced performance for various industrial applications. Key features include:

- **Precision Control:** Capable of extremely precise position, velocity, and force control.
- **High Performance:** Exhibits fast response and high dynamic performance.
- **Closed-Loop Control:** Designed for systems employing closed-loop control with feedback sensors for precise state monitoring.
- **Wide Application:** Suitable for industrial automation, machining, aerospace, robotics, and similar fields.
- **High Energy Efficiency:** Optimized for high performance with reduced energy consumption.



Figure 1: CHUNYE MS1H3 Series Servo Motor. This image displays the CHUNYE MS1H3 series servo motor. The motor is black with yellow protective caps on its connectors. A white label on the side provides key specifications such as model number (MS1H3-85B15CD), power (0.85 kW), voltage (380 V), torque (5.30 Nm), frequency (125 Hz), duty cycle (S1), and IP67 rating.

3. Safety Information

Always observe the following safety precautions to prevent electric shock, injury, or damage to the equipment:

- Ensure power is disconnected before installation, wiring, or maintenance.
- Only qualified personnel should perform installation and wiring.
- Verify correct voltage and current ratings before connecting power.
- Do not operate the motor in environments exceeding its specified temperature, humidity, or vibration limits.
- Ground the motor properly to prevent electrical hazards.
- Avoid touching rotating parts during operation.

4. Setup and Installation

Follow these general steps for installing your CHUNYE MS1H3 Series Servo Motor:

1. **Mounting:** Securely mount the servo motor to a stable, vibration-free surface using appropriate fasteners. Ensure proper alignment with the driven load.
2. **Power Wiring:** Connect the motor's power cables to the servo drive or power supply according to the wiring diagram provided with your specific servo drive. Pay close attention to phase connections (e.g., U, V, W for 3-phase AC motors) and ground connections.
3. **Feedback Wiring:** Connect the encoder or resolver feedback cable to the servo drive's feedback input. Ensure correct pin assignments to maintain closed-loop control integrity.
4. **Control Signal Wiring:** Connect control signals (e.g., pulse/direction, analog command, communication bus) from your controller to the servo drive.

5. **Grounding:** Ensure all components, including the motor, drive, and controller, are properly grounded to a common ground point.
6. **Initial Configuration:** Refer to your servo drive's manual for initial parameter settings and tuning procedures.

5. Operating Instructions

Once installed and configured, operate the servo motor system as follows:

1. **Power On:** Apply power to the servo drive and controller. Observe any diagnostic indicators on the drive.
2. **Enable Drive:** Send an enable command from the controller to the servo drive. The motor should become active and hold its position.
3. **Command Movement:** Issue motion commands (position, velocity, or torque) from your controller. The motor will respond according to the programmed profile.
4. **Monitoring:** Monitor motor performance, temperature, and current during operation.
5. **Power Off:** Disable the servo drive before removing power from the system.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your servo motor:

- **Inspection:** Periodically inspect the motor for signs of wear, damage, or loose connections. Check cables for fraying or insulation damage.
- **Cleaning:** Keep the motor and its cooling fins clean and free of dust or debris to ensure efficient heat dissipation. Use a soft, dry cloth.
- **Lubrication:** Servo motors are typically sealed and do not require user lubrication. Refer to the manufacturer's specifications if your specific model has lubrication points.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Fastener Torque:** Verify that all mounting bolts and electrical terminal screws are tightened to the recommended torque specifications.

7. Troubleshooting

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
Motor does not move	No power to drive; Drive not enabled; Incorrect wiring; Fault condition	Check power supply; Enable drive via controller; Verify all wiring connections; Check drive fault codes.
Motor vibrates excessively	Improper tuning; Mechanical imbalance; Loose mounting	Adjust servo drive tuning parameters; Check for mechanical issues in the load; Tighten mounting bolts.
Motor overheats	Overload; Insufficient cooling; High ambient temperature	Reduce load; Ensure proper ventilation and clear cooling fins; Check ambient temperature.
Loss of position control	Encoder/resolver fault; Feedback cable issue; Drive fault	Inspect feedback device and cable; Check drive fault codes; Re-tune the system.

For more detailed troubleshooting, consult the specific manual for your servo drive or contact CHUNYE technical support.

8. Specifications

The following specifications are typical for the CHUNYE MS1H3 Series Servo Motors. Specific values may vary by model variant (e.g., MS1H3-55C15CD-A334Z vs. MS1H3-85B15CD-A331Z).

Attribute	Value (Typical)
Model Series	MS1H3
Power (kW)	0.85 kW
Voltage	380 V
Torque (Nm)	5.30 Nm
Frequency	125 Hz
Rated Speed	1500 r/min
Current	3.3 A
Phase	3PHAC
Duty Cycle	S1 (Continuous Duty)
Protection Rating	IP67
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	11.02 pounds
Assembly Required	No
Number of Pieces	1

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your CHUNYE product supplier or visit the official CHUNYE website. Ensure you have your product model number and purchase details available when seeking support.

Contact Information:

- Manufacturer: CHUNYE
- Seller: CJ. Universal Heavy Industries Ltd.
- For support, please refer to the contact details provided at the point of purchase or on the official CHUNYE website.

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