

GSD AC Drive Installation Instructions

WARNING: Before Starting, Warning: Frequency Inverter

- Read the instructions about thoroughly before installation and use for the first time.
- Ensure the safety of power and equipment, and qualified personnel should work on the drive and wiring, and ensure the GSD drive. Please read the instruction sheet thoroughly before using the GSD drive, especially the WARNING, NOTICE and CAUTION notes. If you have any questions, please contact WATSONDIRECT.

PLEASE READ PRIOR TO INSTALLATION FOR SAFETY

	<ul style="list-style-type: none"> The ground terminal of the GSD drive must be grounded correctly. The grounding method should comply with the laws of the country where the GSD drive is to be installed. After power has been turned off, the capacitor in the GSD drive may cause a charge for several minutes. To prevent personal injury, always verify that the "GSD" indicator is turned off. This indicates to confirm that the DC bus voltage has decreased sufficiently and is less than 200V before touching any terminals. Capacitor discharge will take at least 5 minutes for most GSD models. The GSD drive is an internal semiconductor of the GSD drive and sensitive to static electricity. Please do not touch the internal boards with your bare hands before making and cable connection. Please disconnect the internal components or units. During changes in the cable, turn off power to the GSD drive before making these changes. When the internal DC bus capacitor in the GSD drive software is in discharge state for making changes in power or wiring. Before the software is ready to start, about 10 minutes. To prevent personal injury, when DC bus voltage for discharge is to start, about 10 minutes before making wiring changes to the GSD drive. Do not touch the GSD drive in locations subject to high temperature, direct sunlight, or harmful radiation.
	<ul style="list-style-type: none"> When supply power to the GSD drive (AC, 400V, 480V or 600V), do not touch the GSD drive during operation of the GSD drive, only for the built-in components and connection system to avoid the heat before attempting to service the GSD drive. Do not work on the GSD drive in locations subject to high temperature. The same conditions in the GSD drive are easily damaged by high voltage.
	<ul style="list-style-type: none"> Long-term high voltage may result in electric shock due to impedance increase of the motor cable and the motor. Defective cable may damage the insulation of the motor. To ensure the safety of the motor, avoid cable damage. Use an insulation rated motor cable on insulation rating of 1000V or higher. A good cable insulation between the GSD drive and motor will help to improve electric safety. Maximum supply voltage to the GSD drive should be less than or equal to 200V/240V/280V/400V depending on GSD model. Maximum supply current capacity should be less than or equal to 200A for all GSD models. The GSD drive should be installed in a clean, well-ventilated and dry location, free from excessive gases or vapors. The GSD drive must be stored within an ambient temperature range from -40°C to +60°C, and relative humidity range of 0% to 95% without condensation. Do not apply 400V power to the GSD drive with the front cover removed. Removing a fault of the GSD drive, wait 5 minutes before pressing the 400V key. To improve power factor, install a power factor corrector of the GSD drive. Do not install power factor correction capacitor in the main AC supply circuit to the GSD drive to prevent drive fault due to over current.

Attention: Motor

- AC input power to 400V/480V/600V single-phase input, confirm the applicability of the power input power, please refer to Figure 1 on the GSD drive (see WATSONDIRECT).
- Ground from the power supply.
- One power to the motor is a 3-phase 380V, 440V, 480V and 600V (phase voltage only).
- Ground to the motor.
- After the motor lead is wired through appropriate A.C. safety rated contacts in all drive the safety installation must be fully in place.

With the correct wiring, the drive can be operated via the keypad, the motor and drive installation for the "WATSONDIRECT" GSD drive to configure the drive for frequent operation.

WATSONDIRECT Safety Notes

We strongly recommend that customers use the GSD safety features.

The Safe Torque Off (STO) function turns off the power supplied to the motor through the feedback, or that the motor cannot produce torque. This method of removing power from the motor is considered an emergency stop, also known as "hold to stop".

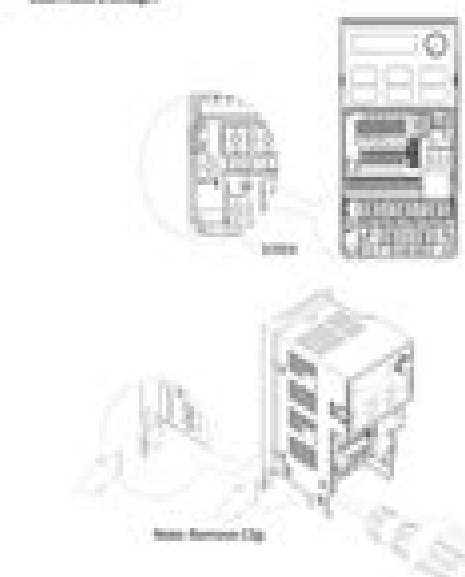
To use the feature, disconnect the appropriate factory-installed jumper and wire a safety relay or safety PLC as shown. The STO function should be wired through a safety relay or PLC to meet category 3 safety requirements. See WATSONDIRECT Appendix 1 for wiring the GSD with STO.

Warning: Ground

AC source location

If the power distribution system supplying the GSD drive is a floating AC or an ungrounded ground system (including most 100V inputs), the GSD jumper must be removed. Removing the GSD jumper increases the internal GSD capacitor filter capacitor between the GSD drive frame and chassis to avoid damaging these capacitors and according to IEC 60364-4-410 to reduce ground leakage current.

GSD frame through

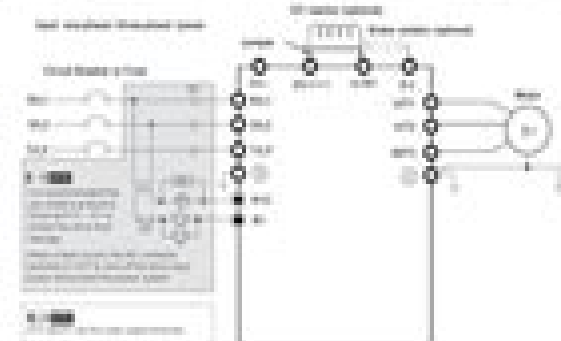


How Motor (Power Output)

The motor power wiring terminal specifications. Please refer to "Specifications for wiring terminals" (see WATSONDIRECT) page 10.

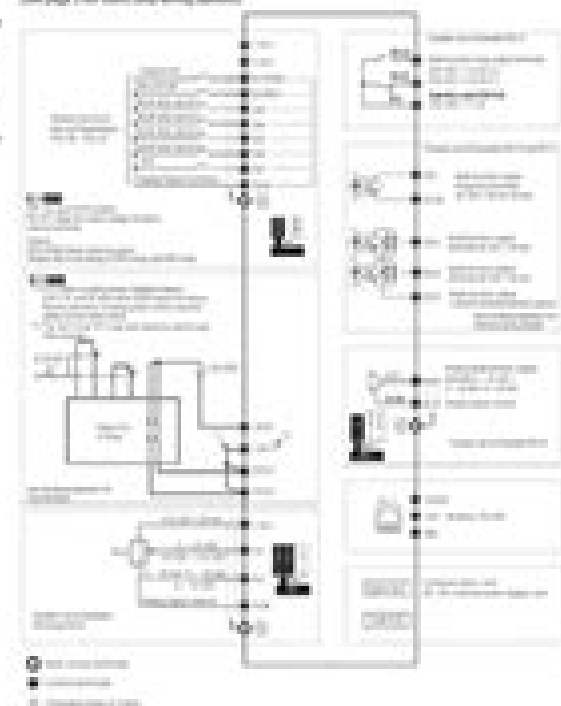
GSD AC Input

*Note that in phase phase do not have a 0.5A terminal. GSD drive do not have 0V and 0V terminals.



GSD System Terminal Block

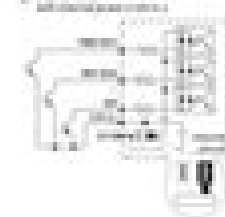
See page 2 for the terminal wiring options.



1. AC Input



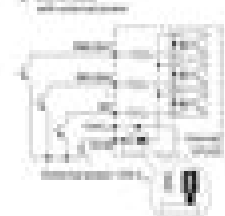
2. AC Input



3. AC Input



4. AC Input



Mirtone Quick Start Manual

Judd E. Hollander



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Table of Contents Mirtone Quick Start Manual

1. Understanding the eBook Mirtone Quick Start Manual
 - The Rise of Digital Reading Mirtone Quick Start Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mirtone Quick Start Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mirtone Quick Start Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mirtone Quick Start Manual
 - Personalized Recommendations
 - Mirtone Quick Start Manual User Reviews and Ratings
 - Mirtone Quick Start Manual and Bestseller Lists
5. Accessing Mirtone Quick Start Manual Free and Paid eBooks

- Mirtone Quick Start Manual Public Domain eBooks
- Mirtone Quick Start Manual eBook Subscription Services
- Mirtone Quick Start Manual Budget-Friendly Options
- 6. Navigating Mirtone Quick Start Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mirtone Quick Start Manual Compatibility with Devices
 - Mirtone Quick Start Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mirtone Quick Start Manual
 - Highlighting and Note-Taking Mirtone Quick Start Manual
 - Interactive Elements Mirtone Quick Start Manual
- 8. Staying Engaged with Mirtone Quick Start Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mirtone Quick Start Manual
- 9. Balancing eBooks and Physical Books Mirtone Quick Start Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mirtone Quick Start Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mirtone Quick Start Manual
 - Setting Reading Goals Mirtone Quick Start Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mirtone Quick Start Manual
 - Fact-Checking eBook Content of Mirtone Quick Start Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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