

Conduit Option

For RSi GM2 Series
Variable Frequency Drive

Installation Guide

890054-03-00



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Safety Instructions

To prevent injury and property damage, follow these instructions. Incorrect operation due to ignoring instructions may cause harm or damage, the seriousness of which is indicated by the following symbols.

▲ Danger

Indicates instant death or serious injury if instructions are not followed.

△ Warning

Indicates the possibility of death or serious injury.

① Caution

Indicates the possibility of injury or damage to property.

- After reading this manual, keep it in an easily accessible location.
- This manual should be given to the person who actually uses the products and is responsible for their maintenance.



WARNING

- **Do not remove the cover while power is applied or the unit is in operation.**
Risk: Electric shock may occur.
- **Do not run the inverter with the front cover removed.**
Risk: Electric shock possible due to high voltage terminals or charged capacitor exposure.
- **Do not remove the cover except for periodic inspections or wiring, even if the input power is not applied.**
Risk: Electric shock may occur through exposure to the charged circuits.
- **Wiring and periodic inspections should be performed at least 10 minutes after disconnecting the input power and verifying via meter that the DC link voltage is below 30V DC.**
Risk: Electric shock may occur.
- **Operate switches with dry hands.**
Risk: Electric shock may occur if hands are wet.
- **Do not use the cable when its insulation is damaged.**
Risk: Electric shock may occur.
- **Do not subject the cables to scratches, excessive stress, heavy loads, or pinching.**
Risk: Electric shock may occur.
- **Be sure to install the ground connection between the equipment and the motor for safe use.**
Risk: Electric shock, injury, and possibly death.



CAUTION

- **Install the inverter on a non-flammable surface. Do not place flammable material nearby.**
Risk: Fire may occur.
- **Disconnect the input power if the inverter gets damaged.**
Risk: Secondary accident and fire.
- **Do not touch the inverter while the input power is applied or immediately after removal. It will remain hot for a couple of minutes.**
Risk: Burns.
- **Do not apply power to a damaged inverter or to an inverter with parts missing even if the installation is complete.**
Risk: Electric shock may occur.
- **Do not allow lint, paper, wood chips, dust, metallic chips, or other foreign matter into the drive.**
Risk: Fire or other accident.
- **Do not modify the product at your own discretion.**
Risk: Potential injury or damage to the product due to failure or malfunction. Also, products modified at user's discretion will be excluded from the product warranty.
- **Do not use the inverter for single phase motor operation as it has been designed for three phase motor operation.**
Risk: Using a single phase motor may damage the motor.
- **Do not place heavy objects on top of electric cables.**
Risk: Heavy objects may damage the cable and result in electric shock.

OPERATING PRECAUTIONS

- **Make sure the assembly is tightened to the specified torque. Do not overtorque.**
Risk: Product damage.

1. Product Overview

This installation guide is applied to the GM2 drive series Conduit Option.

NOTE: When the Conduit Option is installed, the drive meets UL Enclosed Type 1 specifications.

2. Before using the product

Perform the following tasks after receiving the Conduit Option.

- ◆ Inspect the Conduit Option for damage.
If the Conduit Option appears damaged upon receipt, contact the shipper immediately.
- ◆ Check that the model number on the Conduit Option is the same as that on the packaging.

3. Conduit Option Part Number Table

VFD Size	Conduit Option Part Number
VFD-RSI-001-GM2-2C	EN-101036-00
VFD-RSI-002-GM2-2C	EN-101036-00
VFD-RSI-003-GM2-2C	EN-101036-01
VFD-RSI-005-GM2-2C	EN-101036-01
VFD-RSI-007-GM2-2C	EN-101036-02
VFD-RSI-010-GM2-2C	EN-101036-03
VFD-RSI-015-GM2-2C	EN-101036-03
VFD-RSI-001-GM2-4C	EN-101036-00
VFD-RSI-002-GM2-4C	EN-101036-00
VFD-RSI-003-GM2-4C	EN-101036-01
VFD-RSI-005-GM2-4C	EN-101036-01
VFD-RSI-007-GM2-4C	EN-101036-02
VFD-RSI-010-GM2-4C	EN-101036-03
VFD-RSI-015-GM2-4C	EN-101036-03

Figure 1: Conduit Option Part Number Table

4. Installation Procedure

Each Conduit Option Kit includes the following:

- (2) Black M4 Screws
- (4) Long M4 Screws
- (5) Short M4 Screws
- Green Ground Wire

Install the Conduit Option using the procedure below. See Figures 2 – 5.

1. Using the (2) black M4 screws, attach the base cover to the base.
2. Using the (4) long M4 screws attach the body to the VFD itself.
3. Using (4) short M4 screws attach the base to the bottom of the VFD assembly.
4. Using the provided ground wire, make connection internal to the VFD. Connect to the ground terminal point located to the left of the R/S/T terminal points using the remaining short M4 screw.

Torque Requirements: M4 Screw: 1.8 – 5.28 In*Lbs.

4.1 GM2: 1.0HP – 2.0HP (230V), 1.0HP – 2.0HP (460V)

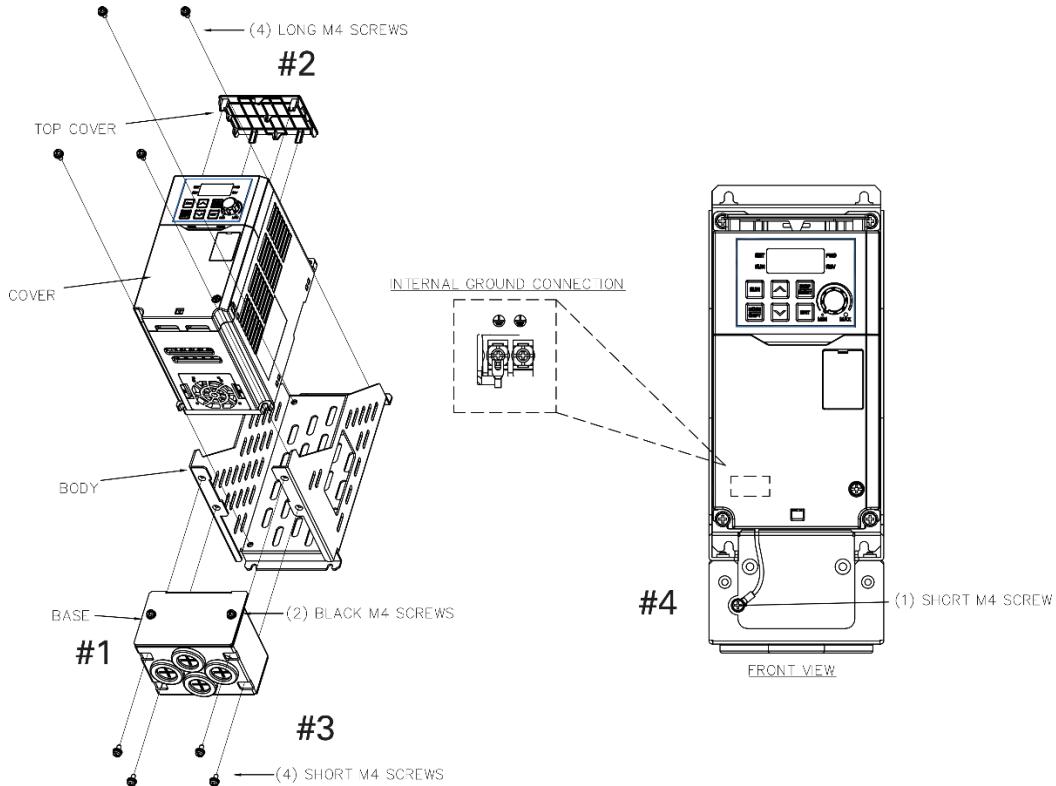


Figure 2: Installation of EN-101036-00

4.2 GM2: 3.0HP – 5.0HP (230V), 3.0HP – 5.0HP (460V)

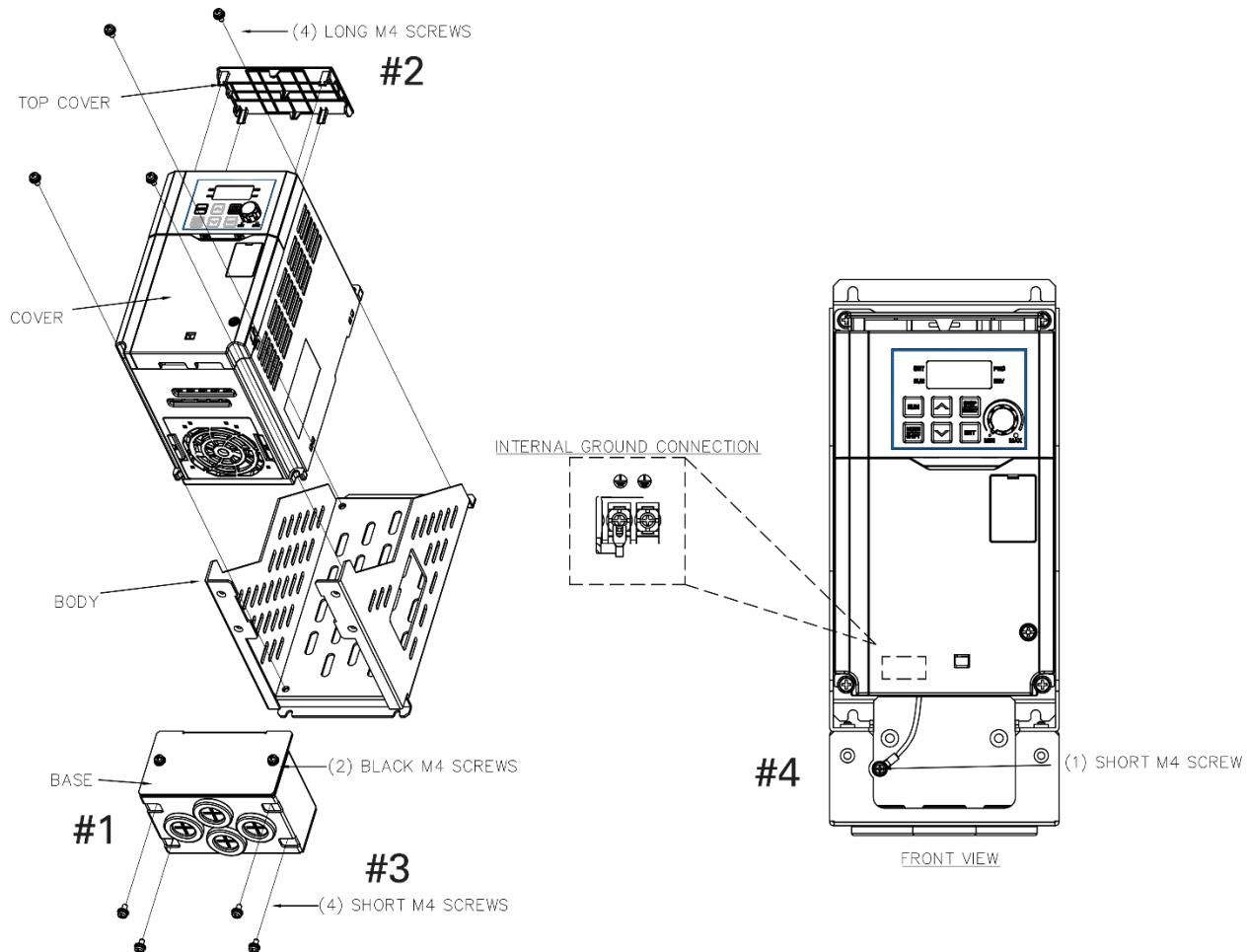


Figure 3: Installation of EN-101036-01

4.3 GM2: 7.5HP (230V), 7.5HP (460V)

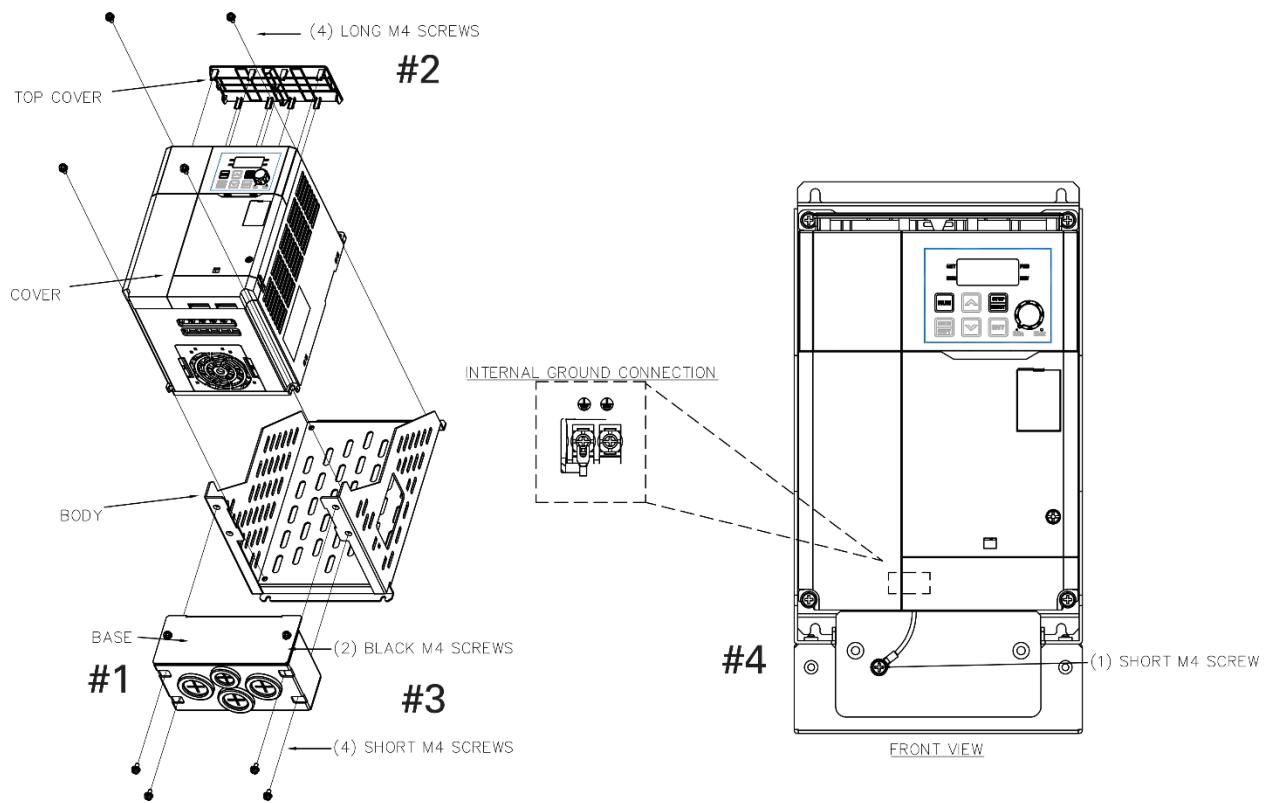


Figure 4: Installation of EN-101036-02

4.4 GM2: 10.0HP – 15.0HP (230V), 10.0HP – 15.0HP (460V)

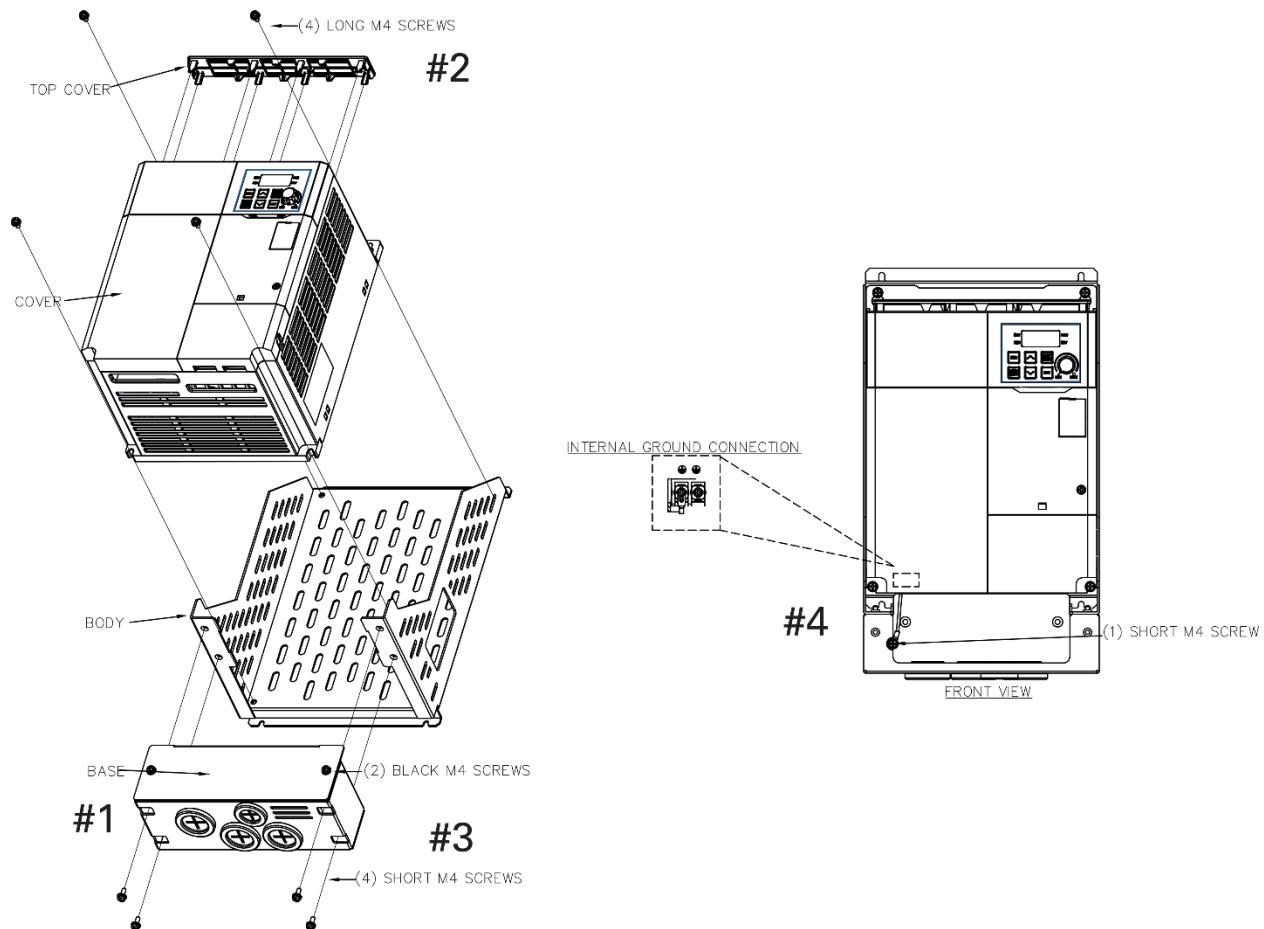
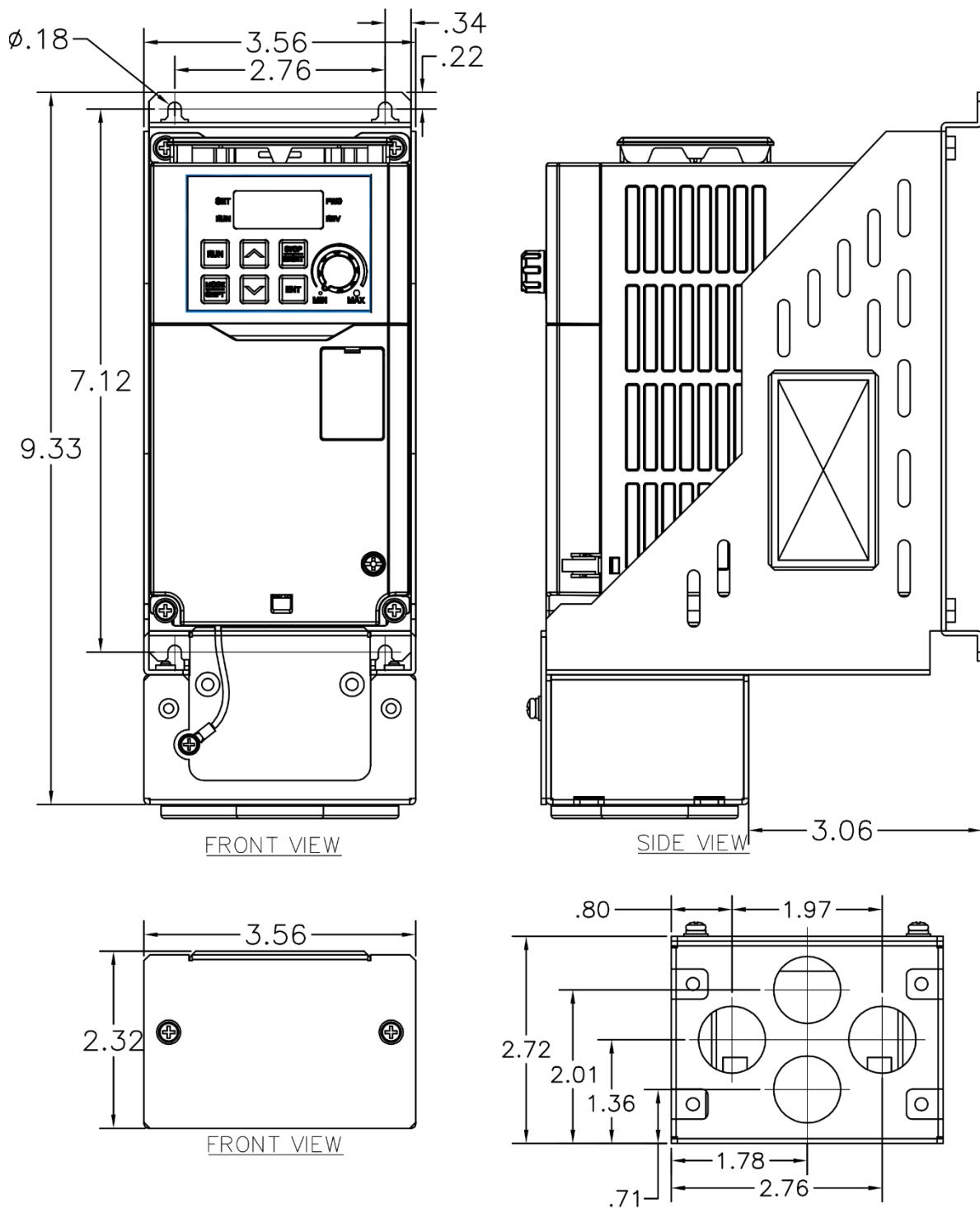


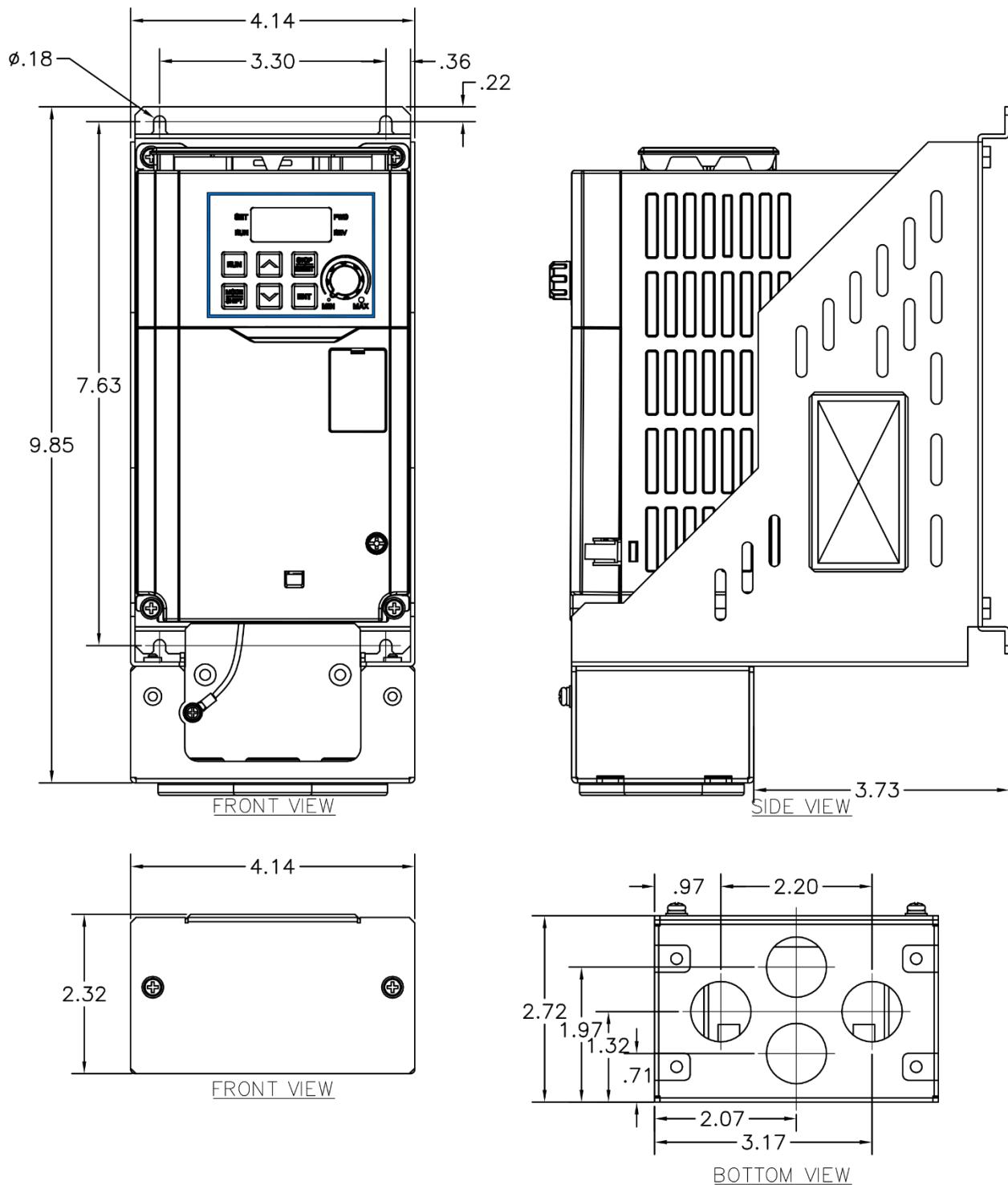
Figure 5: Installation of EN-101036-03

5. Dimensions (with Conduit Option installed)

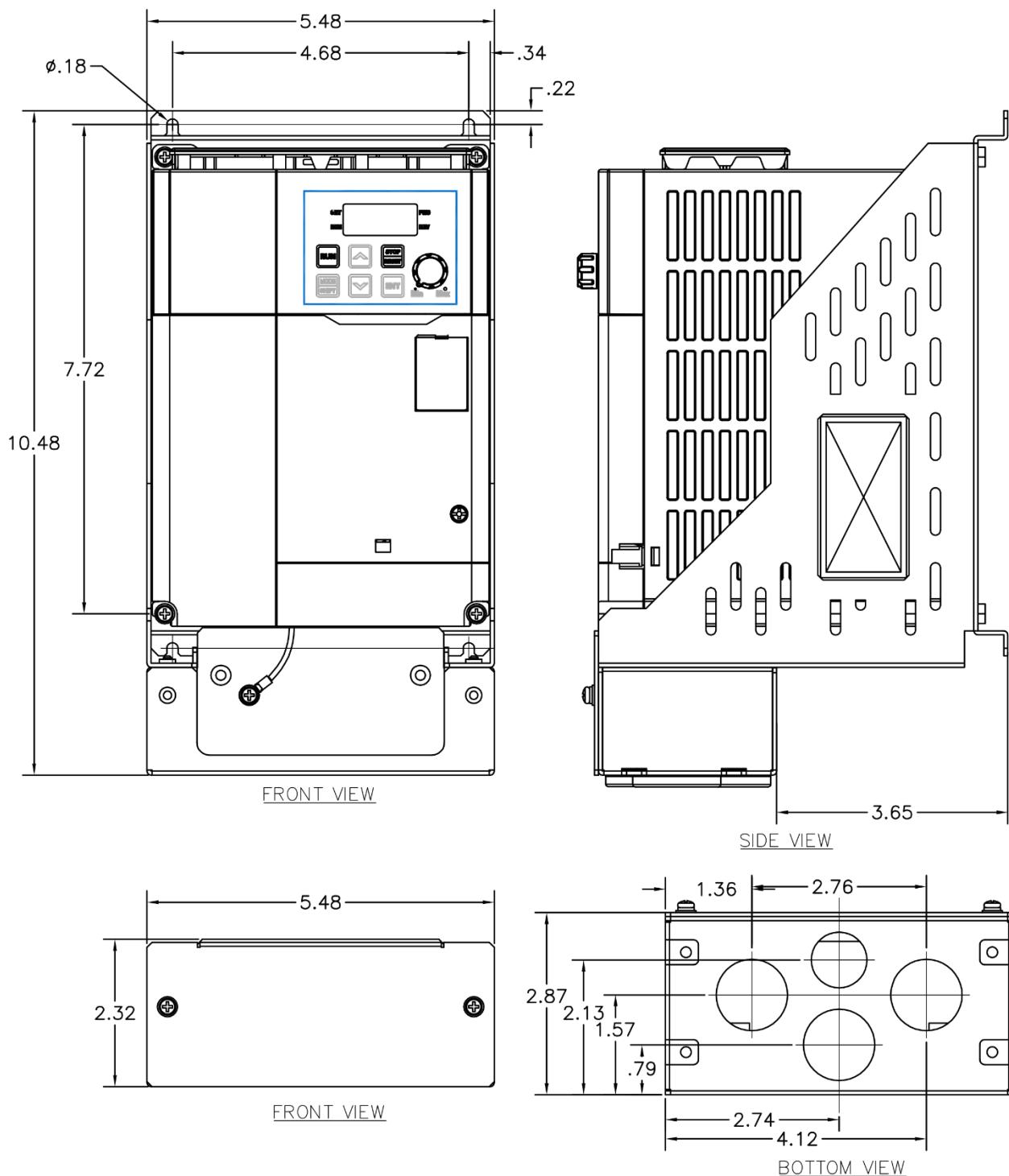
5.1 GM2: 1.0HP – 2.0HP (230V), 1.0HP – 2.0HP (460V)



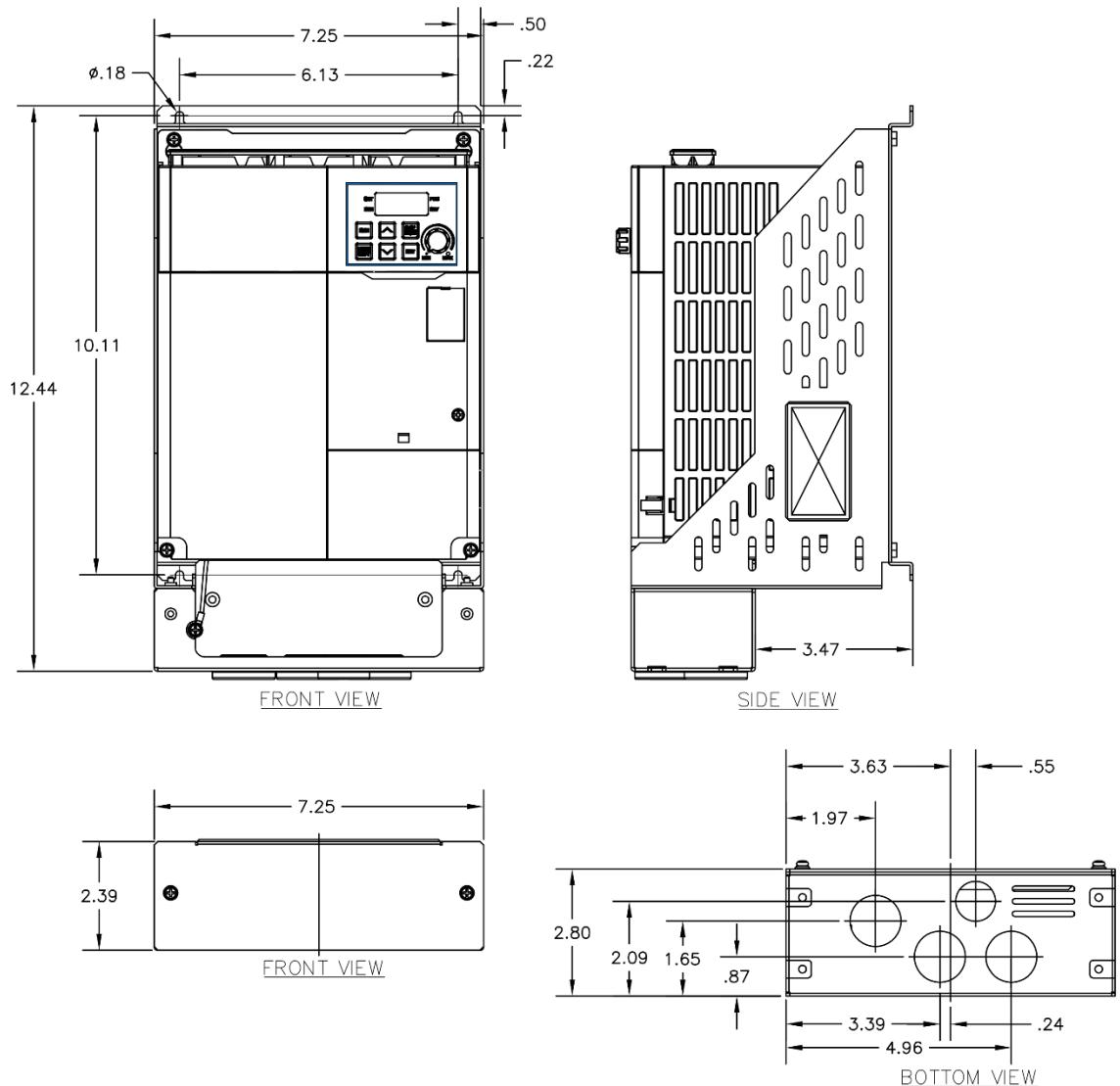
5.2 GM2: 3.0HP – 5.0HP (230V), 3.0HP – 5.0HP (460V)



5.3 GM2: 7.5HP (230V), 7.5HP (460V)



5.4 GM2: 10.0HP – 15.0HP (230V), 10.0HP – 15.0HP (460V)

**6. Revision History**

No	Date	Edition	Changes
1	March 2021	First Edition	-



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