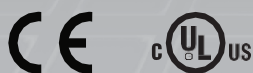


Conduit Option

For RSi H2Series
Variable Frequency Drive
Installation Guide

890053-05-00



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Applied Motor Controls

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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.

Caution

Indicates the possibility of injury or damage to property.

■ The meaning of each symbol in this manual and on your equipment is as follows.



This is the safety alert symbol. Read and follow instructions carefully to avoid dangerous situations.



This symbol alerts the user to the presence of “dangerous voltage” inside the product that might cause harm or electric shock.

- 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 operate 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 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.



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.

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 H2 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-H2-2C	EN-101040-10
VFD-RSI-002-H2-2C	EN-101040-10
VFD-RSI-003-H2-2C	EN-101040-10
VFD-RSI-005-H2-2C	EN-101040-10
VFD-RSI-007-H2-2C	EN-101040-10
VFD-RSI-010-H2-2C	EN-101040-10
VFD-RSI-015-H2-2C	EN-101040-10
VFD-RSI-020-H2-2C	EN-101040-00
VFD-RSI-025-H2-2C	EN-101040-01
VFD-RSI-001-H2-4C	EN-101040-10
VFD-RSI-002-H2-4C	EN-101040-10
VFD-RSI-003-H2-4C	EN-101040-10
VFD-RSI-005-H2-4C	EN-101040-10
VFD-RSI-007-H2-4C	EN-101040-10
VFD-RSI-010-H2-4C	EN-101040-10
VFD-RSI-015-H2-4C	EN-101040-10
VFD-RSI-020-H2-4C	EN-101040-00
VFD-RSI-025-H2-4C	EN-101040-00
VFD-RSI-030-H2-4C	EN-101040-01
VFD-RSI-040-H2-4C	EN-101040-01
VFD-RSI-050-H2-4C	EN-101040-02
VFD-RSI-060-H2-4C	EN-101040-03
VFD-RSI-075-H2-4C	EN-101040-03
VFD-RSI-100-H2-4C	EN-101040-04
VFD-RSI-125-H2-4C	EN-101040-04
VFD-RSI-150-H2-4C	EN-101040-05
VFD-RSI-200-H2-4C	EN-101040-05
VFD-RSI-250-H2-4C	EN-101040-06
VFD-RSI-300-H2-4C	EN-101040-06
VFD-RSI-400-H2-4C	EN-101040-07
VFD-RSI-500-H2-4C	EN-101040-08
VFD-RSI-650-H2-4C	EN-101040-08
VFD-RSI-800-H2-4C	EN-101040-09

4. Installation Procedure

◆ Conduit Option Assembly and Installation Procedure

DANGER! Electrical Shock Hazard : Do not connect or disconnect wiring while the power is on. Failure to comply may result in death or serious injury.

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.

4.1 H2: 1HP – 25HP (230V), 1HP – 40HP (460V)

- ① Remove the power cover and cable guide of the product as shown in Figure 1.

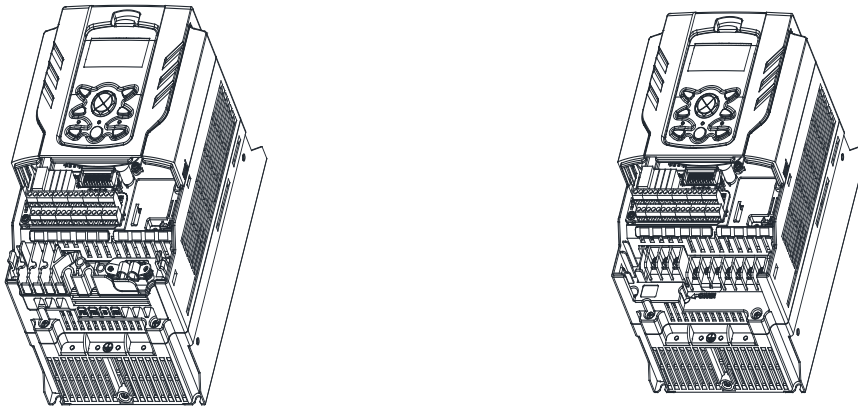


Figure 1. Remove power cover and cable guide

- ② Install screws in locations shown in Figure 2.

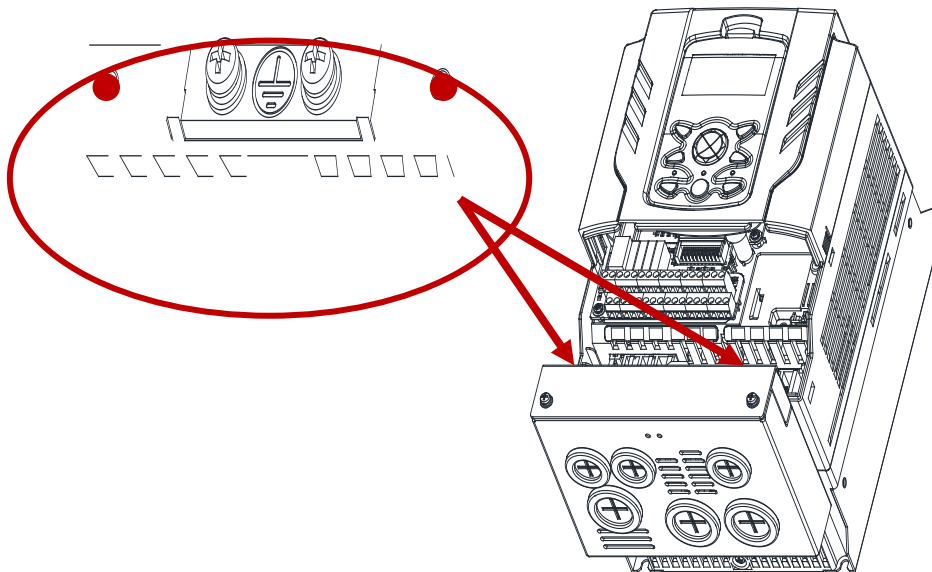


Figure 2. Install Conduit Option

- ③ Reinstall the power cover.

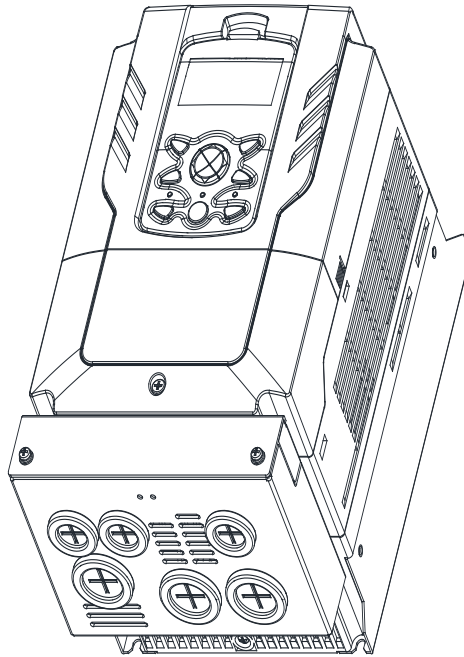


Figure 3. After installation

4.2 H2: 50HP – 125HP (460V)

- ① Remove the power cover and cable guide of the product as shown in Figure 4.

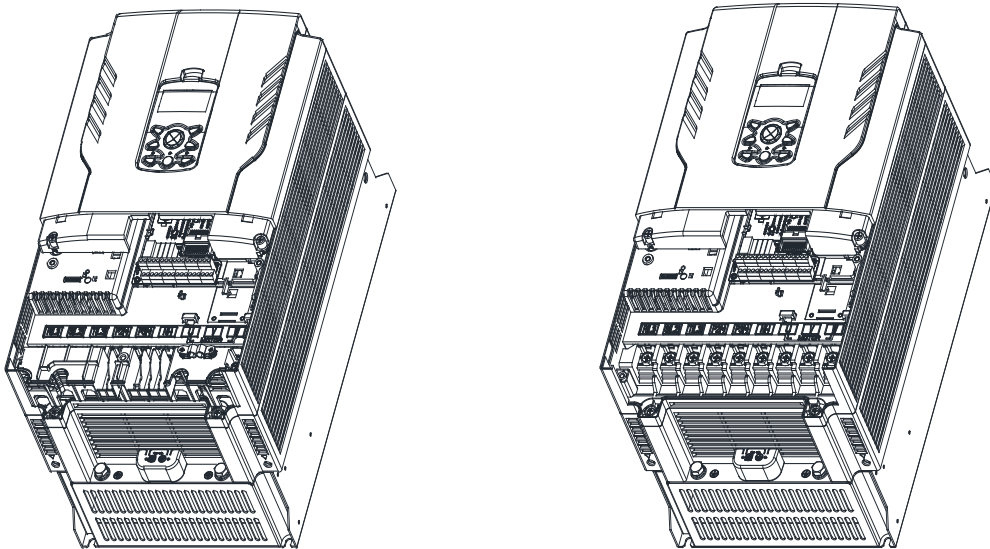


Figure 4. Remove power cover and cable guide

- ② Install screws in locations shown in Figure 5.

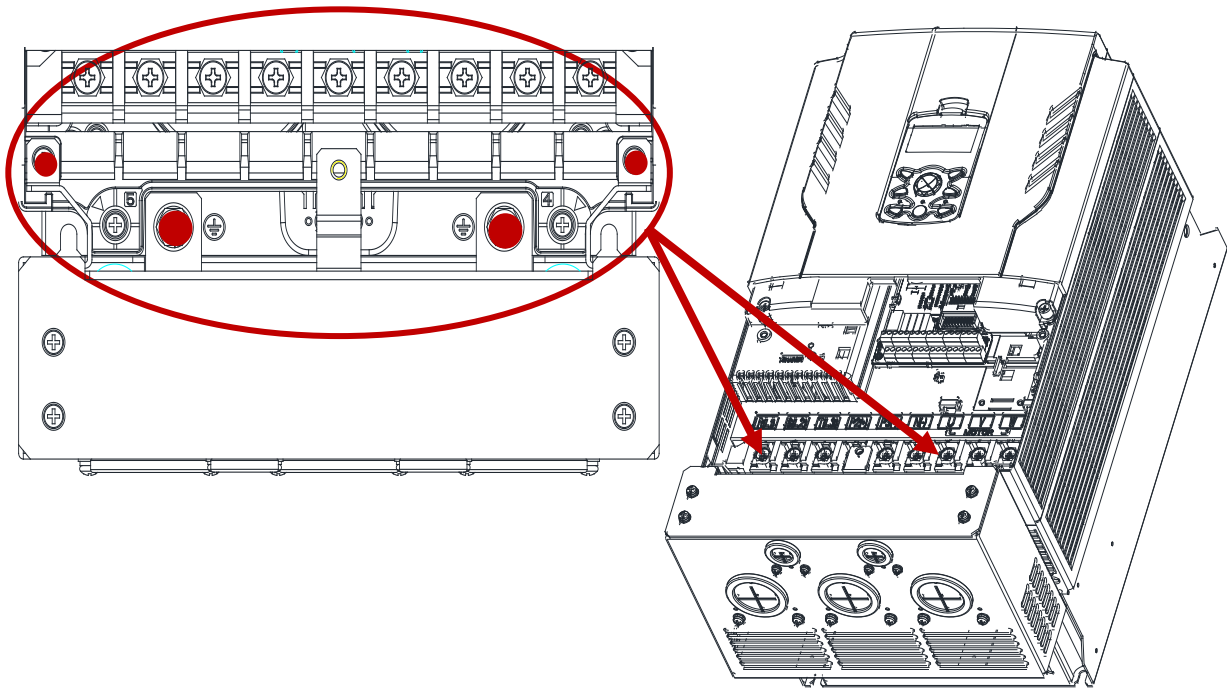


Figure 5. Install Conduit Option

- ③ Reinstall the power cover.

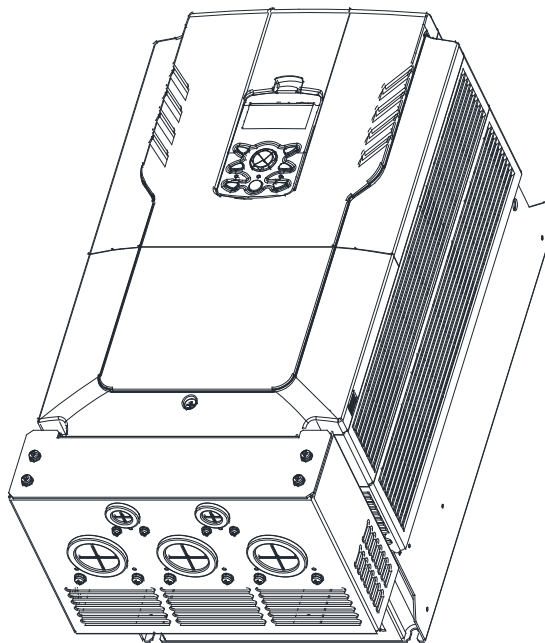


Figure 6. After installation

4.3 H2: 150HP – 300HP (460V)

- ① Remove the power cover and cable guide of the product as shown in Figure 7.

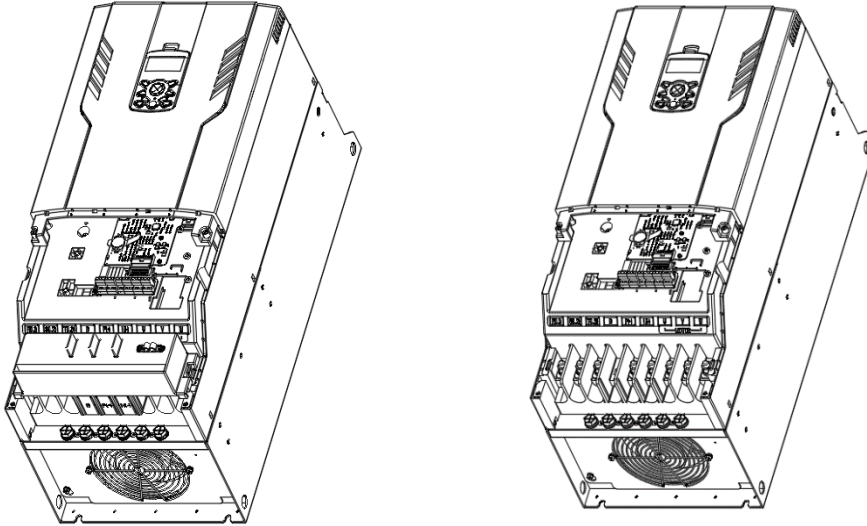


Figure 7. Remove power cover and cable guide

- ② Install screws in locations shown in Figure 8.

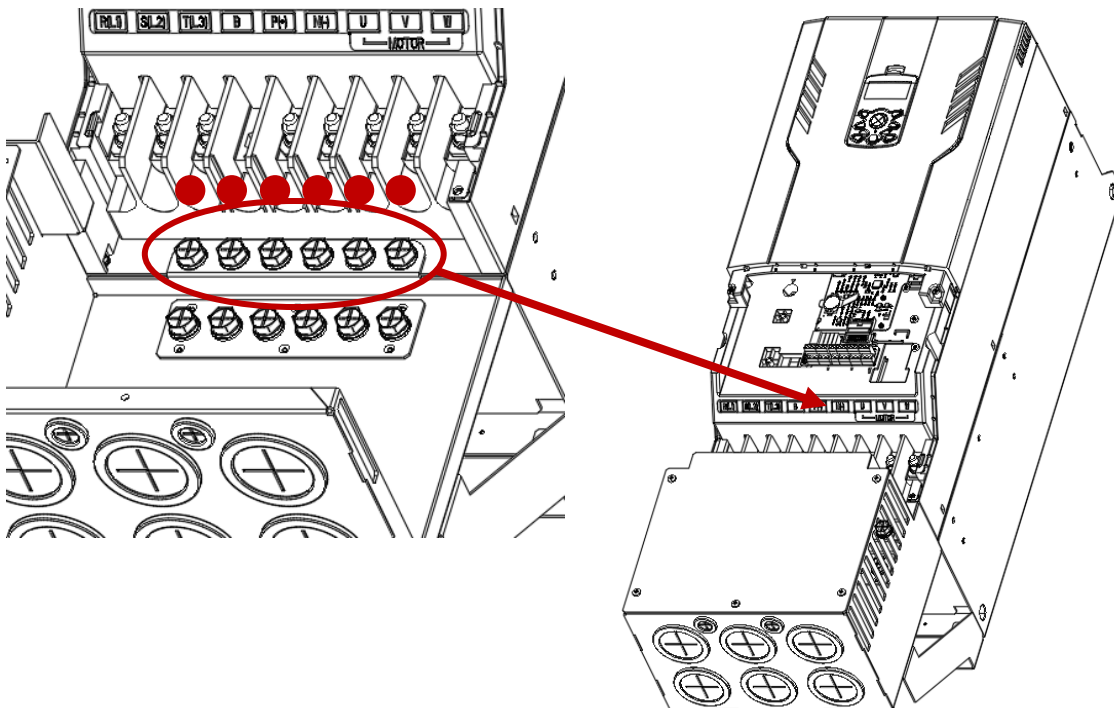


Figure 8. Install Conduit Option

- ③ Reinstall the power cover.

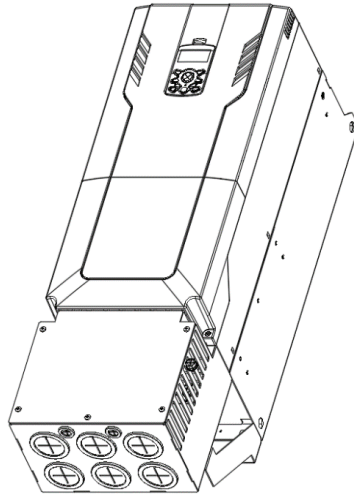


Figure 9. After installation

4.4 H2: 400HP (460V)

- ① Remove the power cover and front cover of the product as shown in Figure 10.

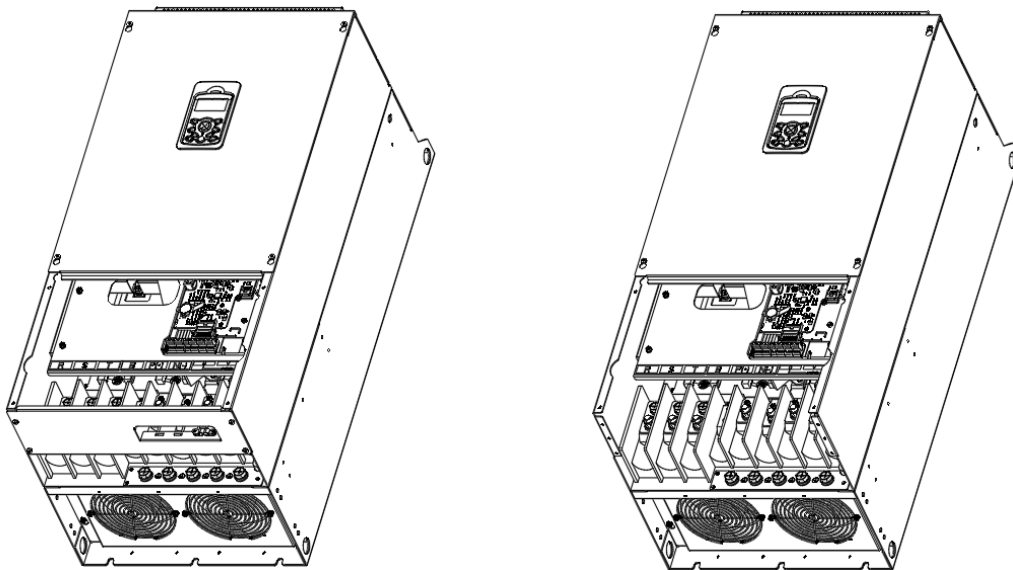


Figure 10. Remove power cover and front cover

- ② Install screws in locations shown in Figure 11.

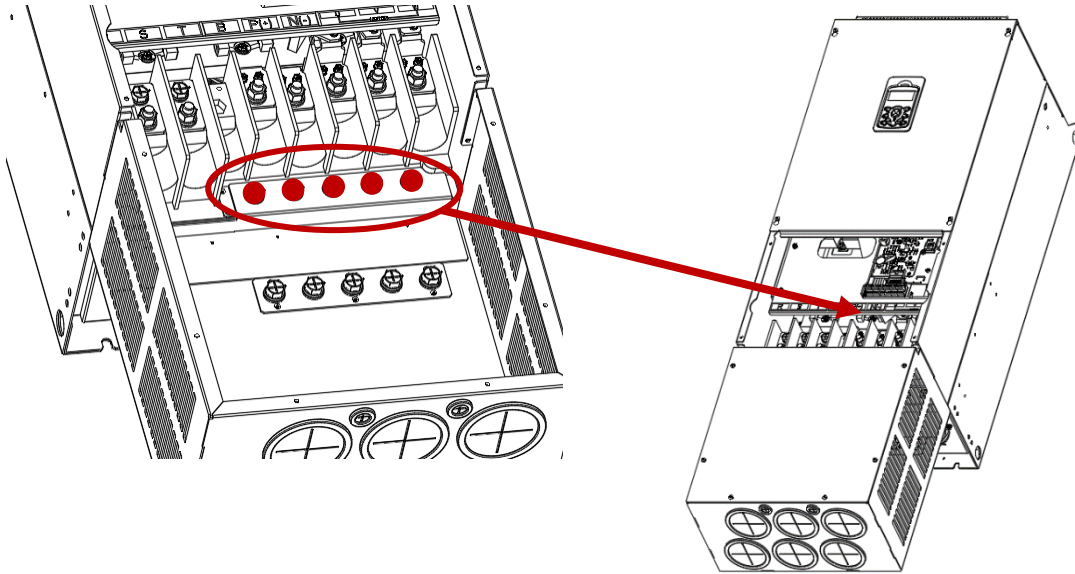


Figure 11. Install Conduit Option

- ③ Reinstall the power cover.

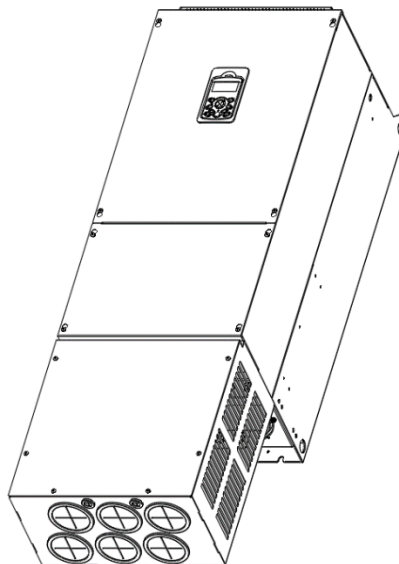


Figure 12. After installation

4.5 H2: 500HP – 800HP (460V)

- ① Remove the power cover and front cover of the product as shown in Figure 13.

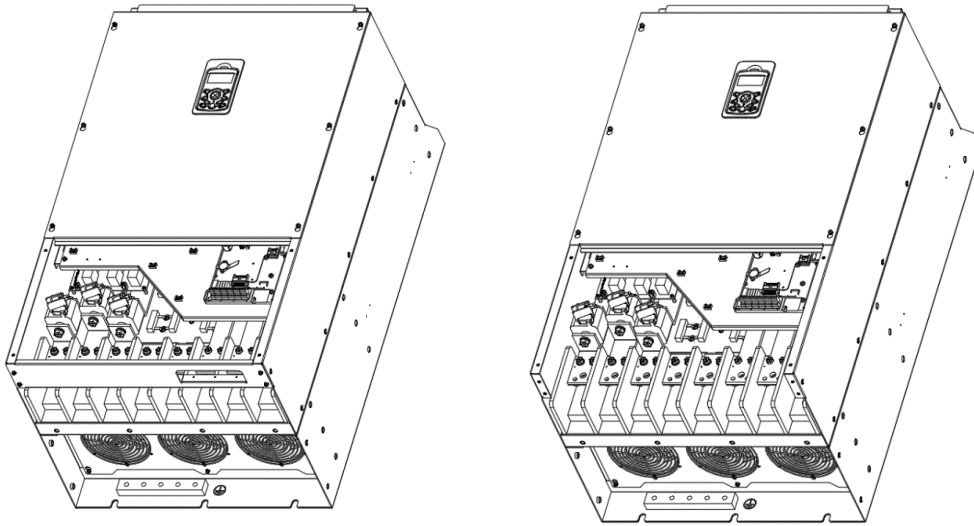


Figure 13. Remove power cover and front cover

- ② Install screws in locations shown in Figure 14.

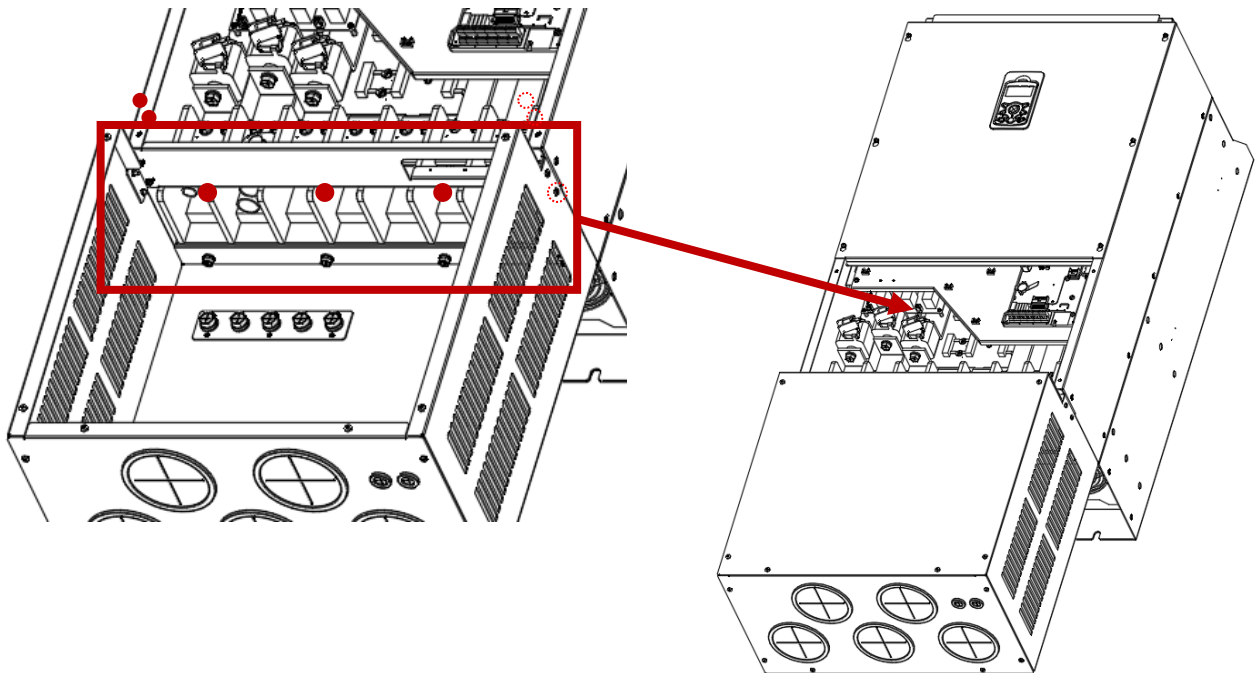


Figure 14. Install Conduit Option

- ③ Reinstall the power cover.

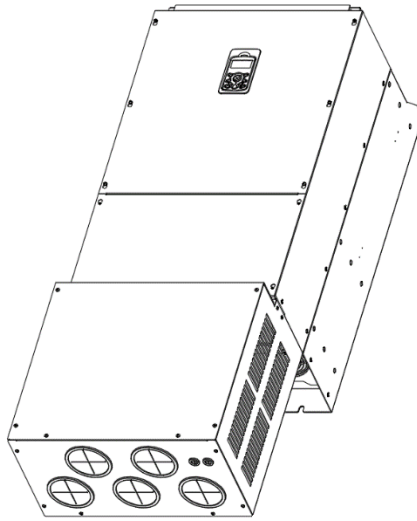
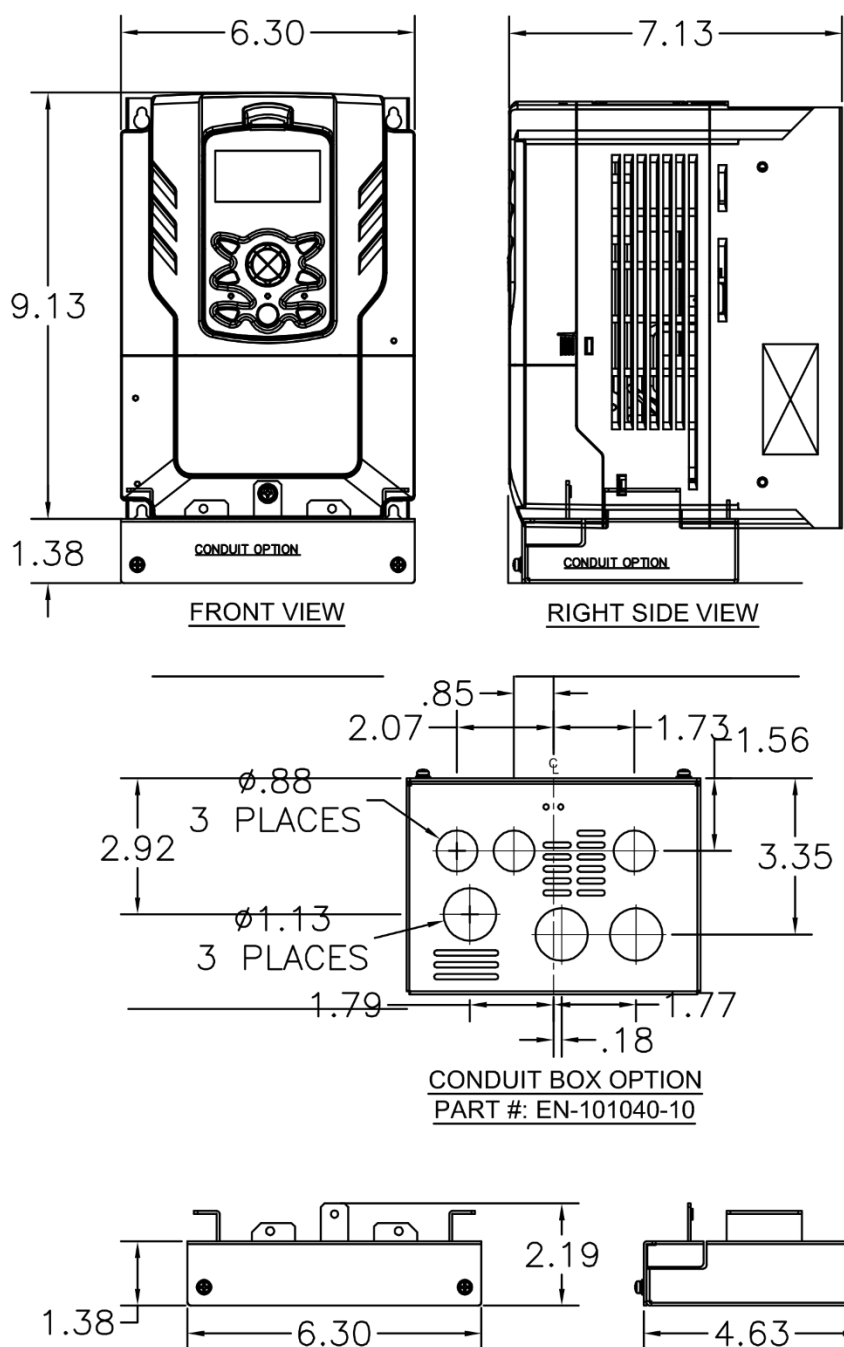


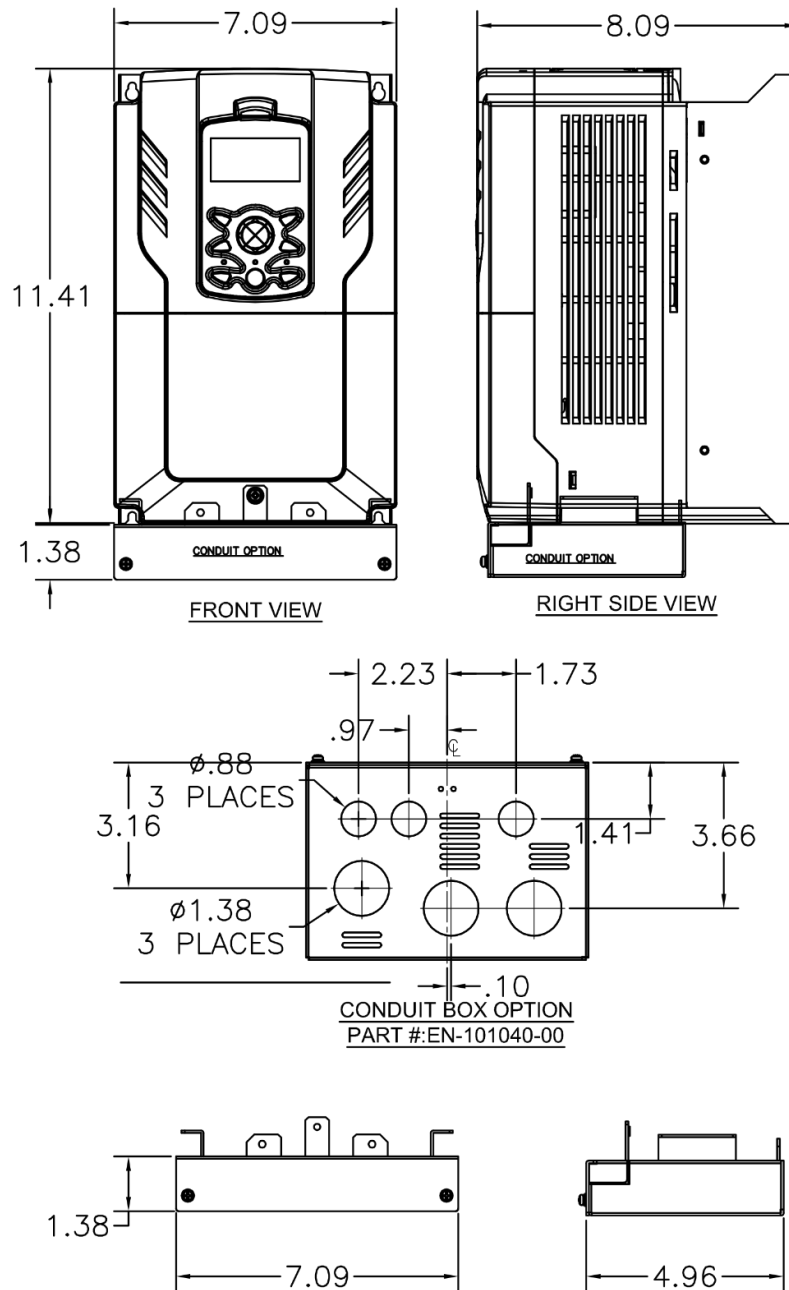
Figure 15. After installation

5. Dimensions (with Conduit Option installed)

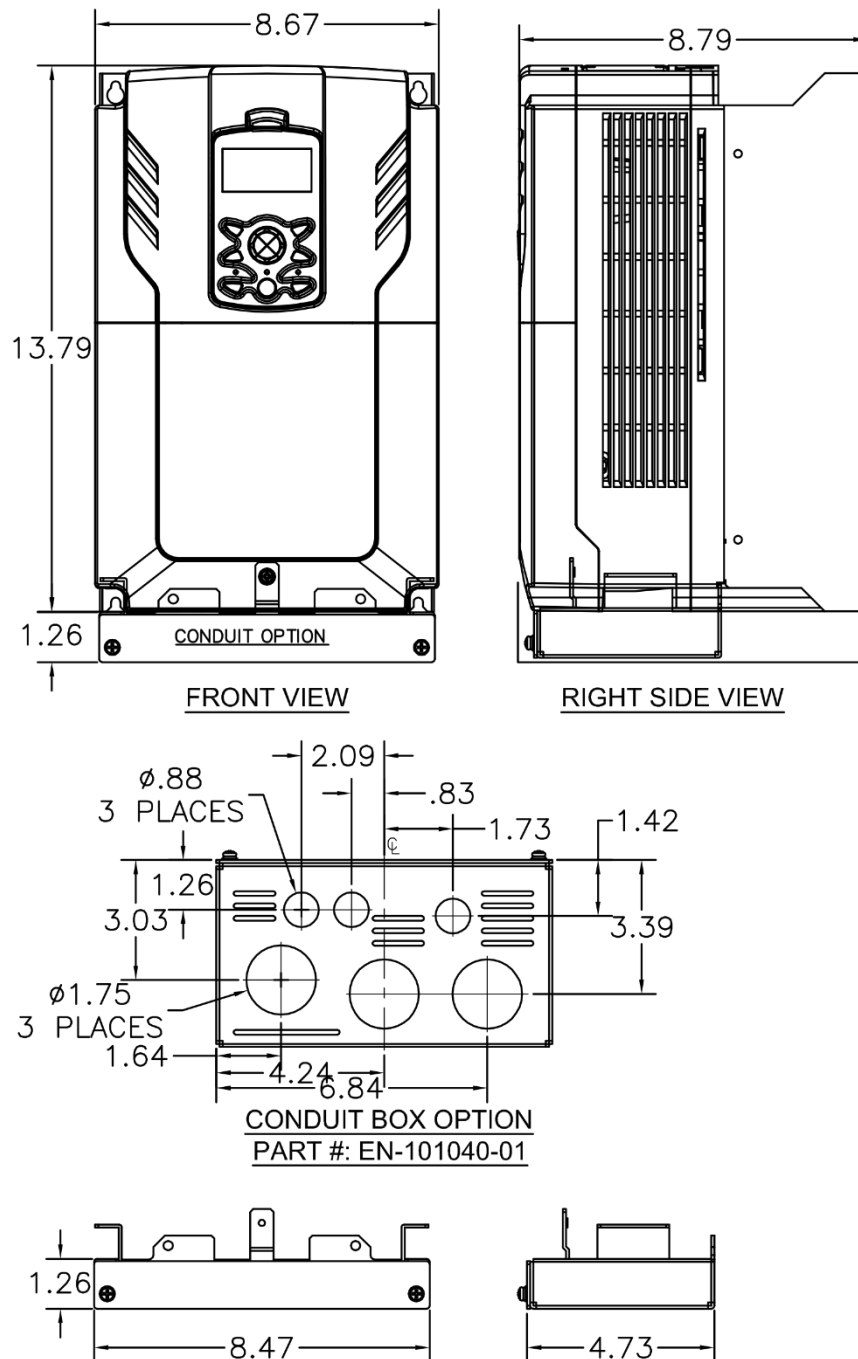
5.1 H2: 1HP – 15HP (230V), 1HP – 15HP (460V)



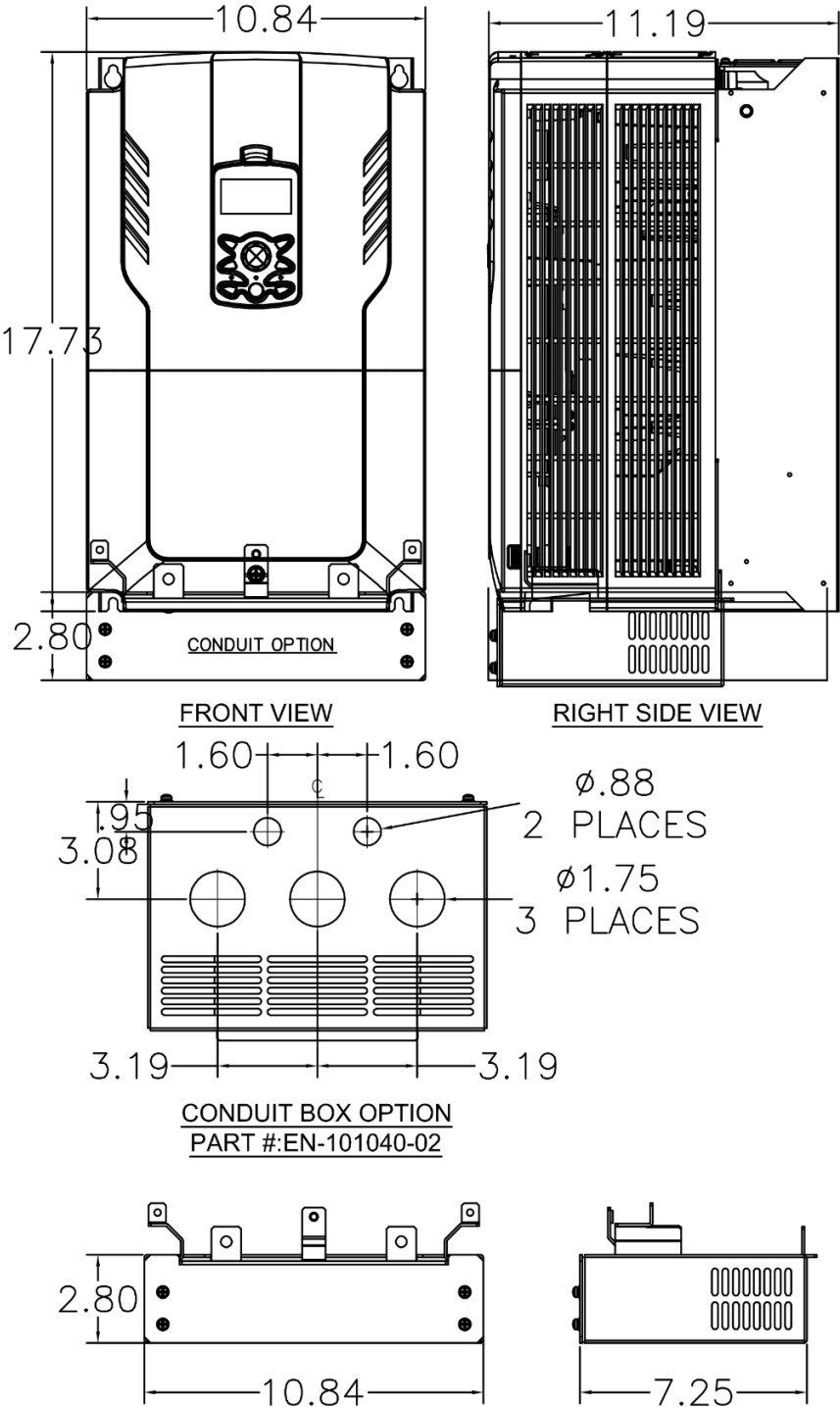
5.2 H2: 20HP (230V), 20HP – 25HP (460V)



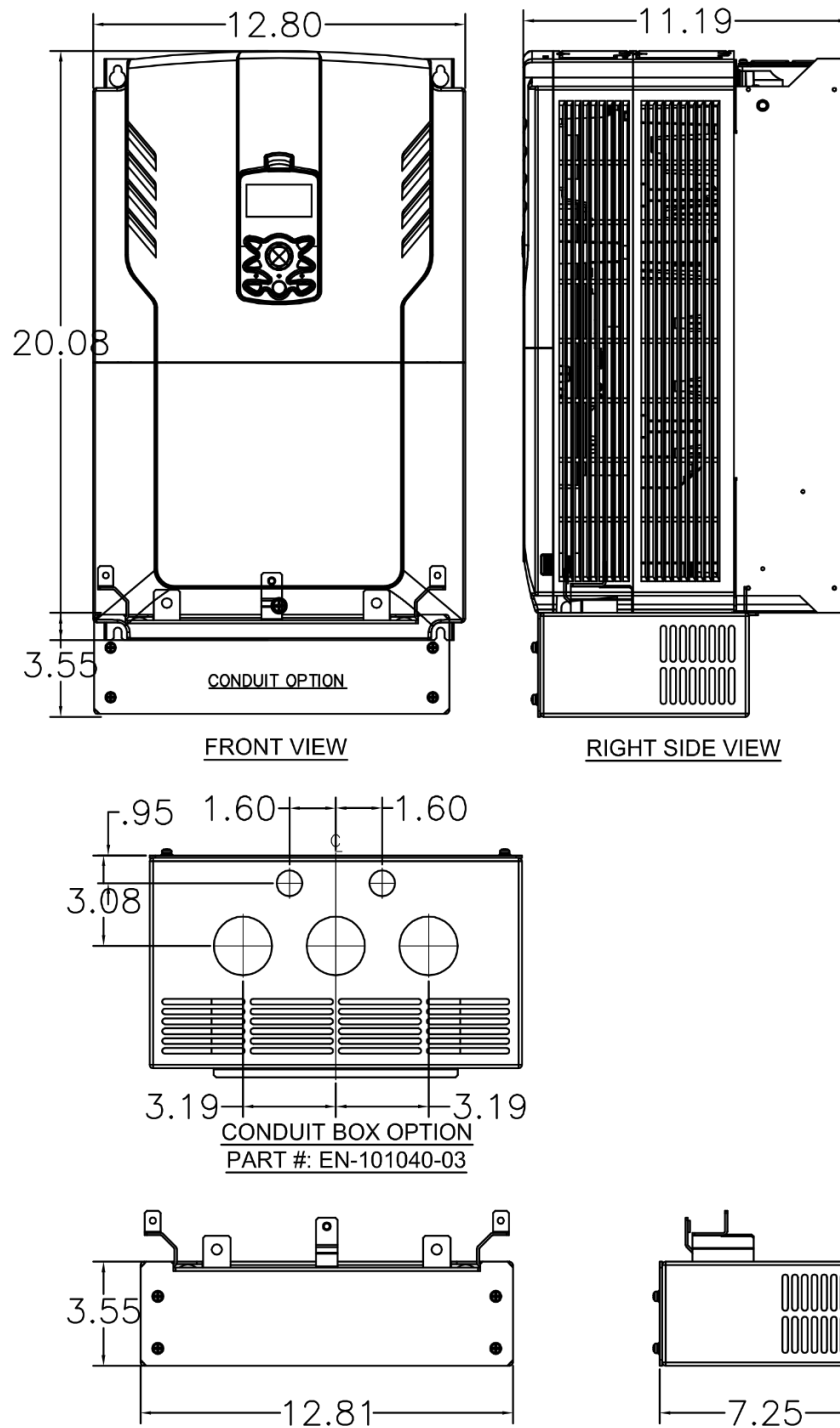
5.3 H2: 25HP (230V), 30HP – 40HP (460V)



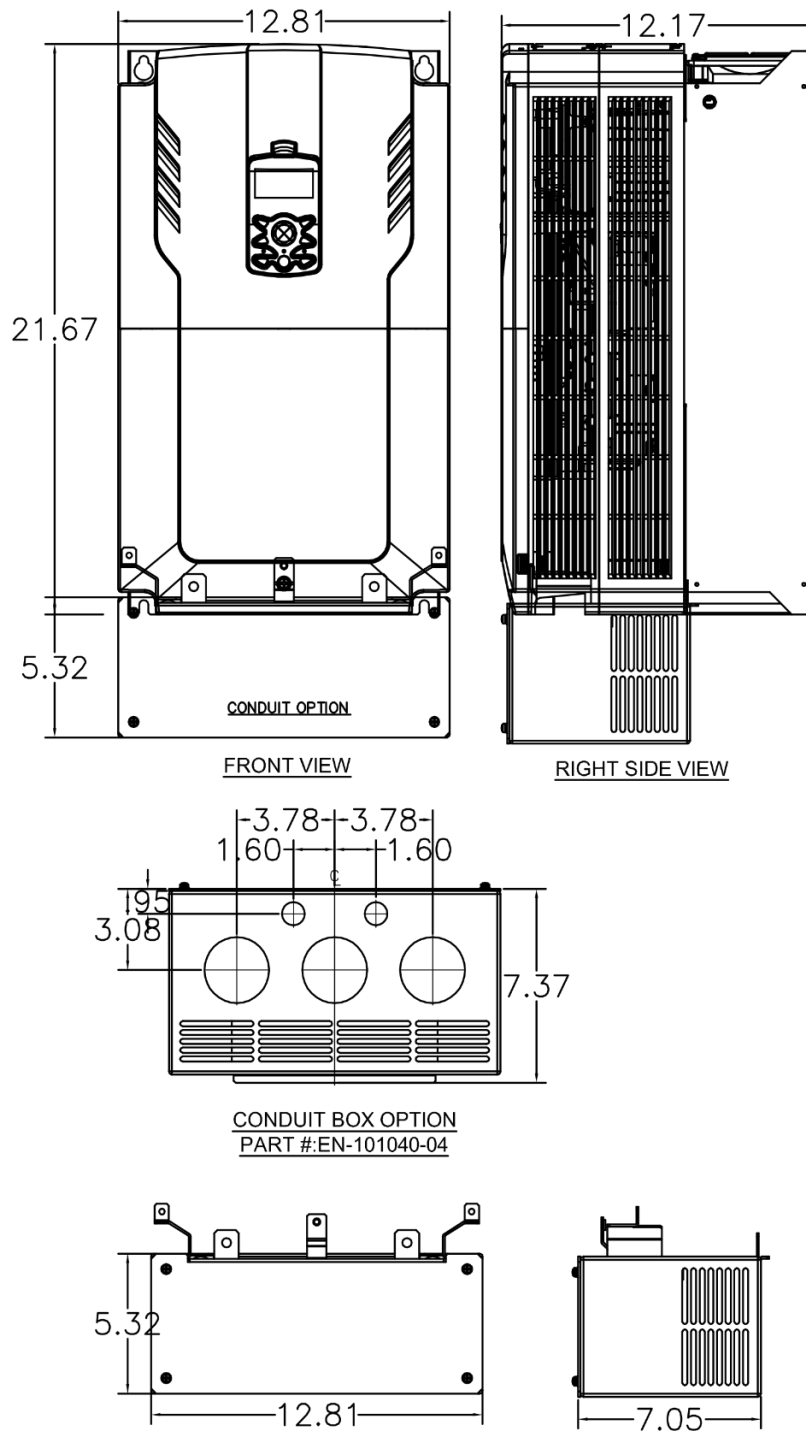
5.4 H2: 50HP (460V)



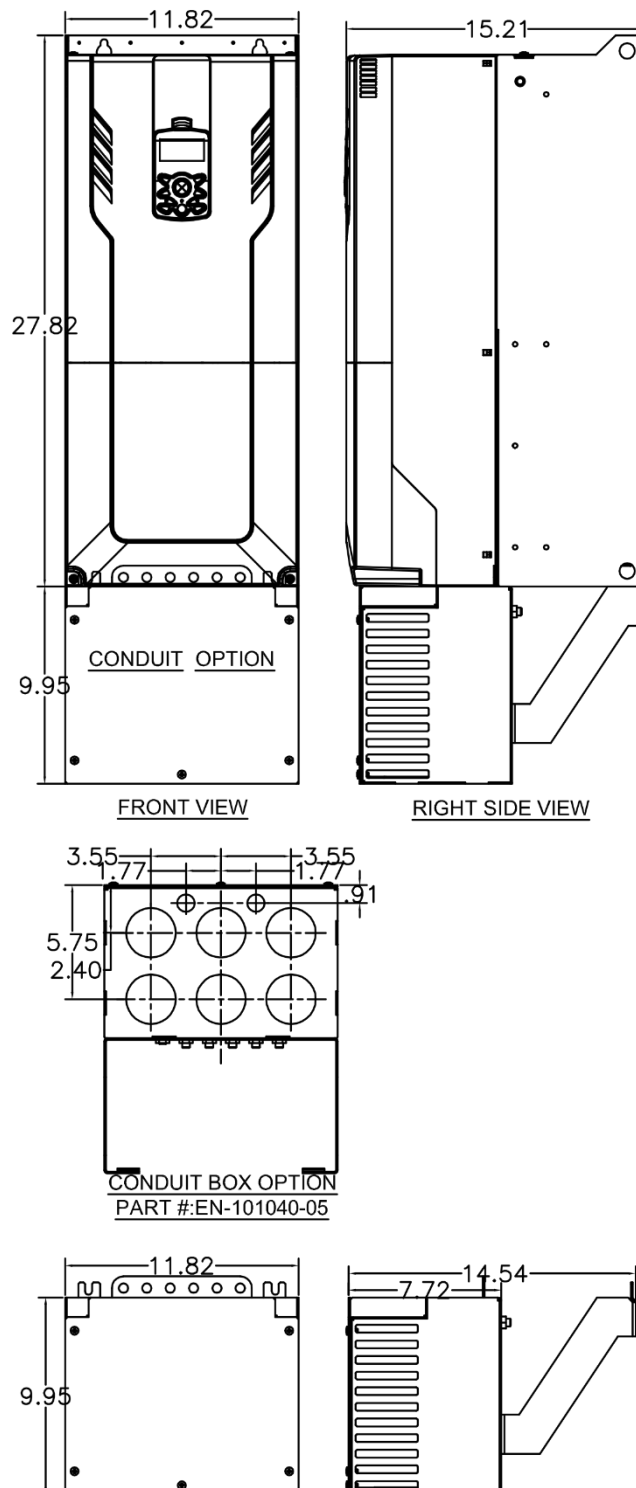
5.5 H2: 60HP – 75HP (460V)



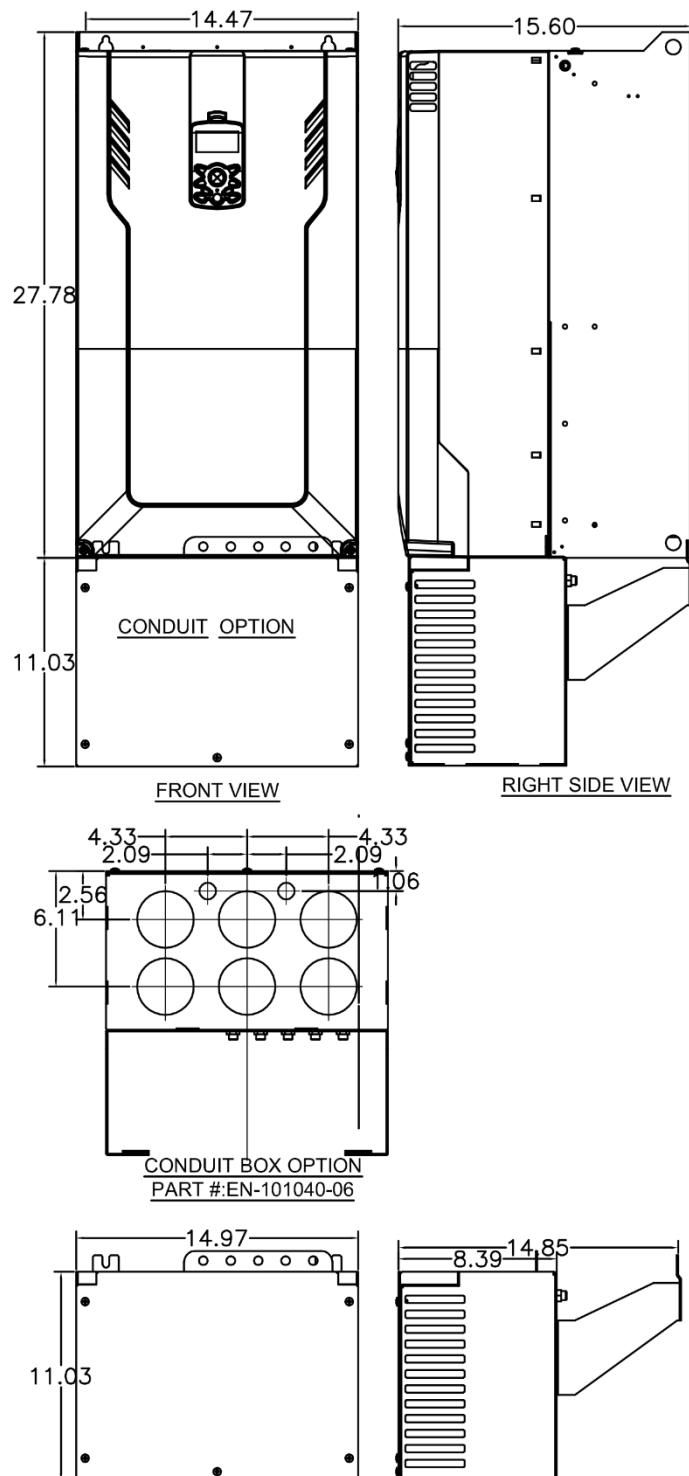
5.6 H2: 100HP – 125HP (460V)



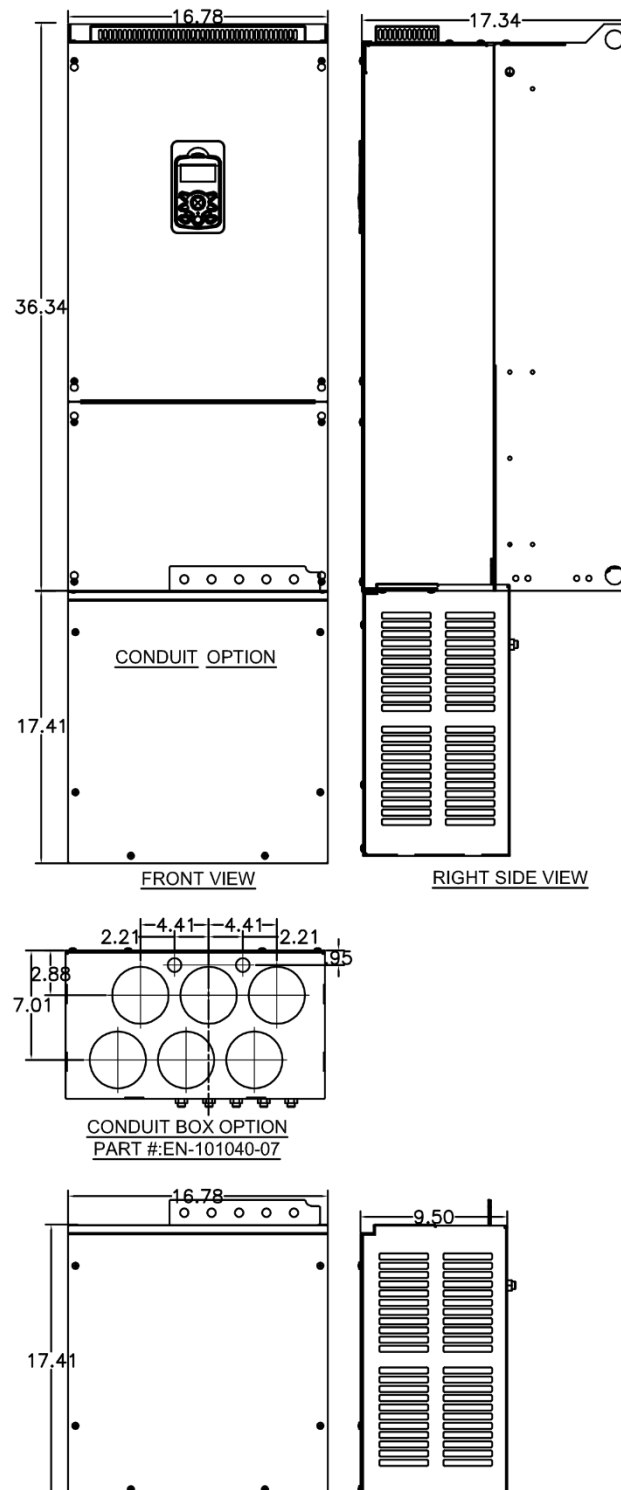
5.7 H2: 150HP – 200HP (460V)



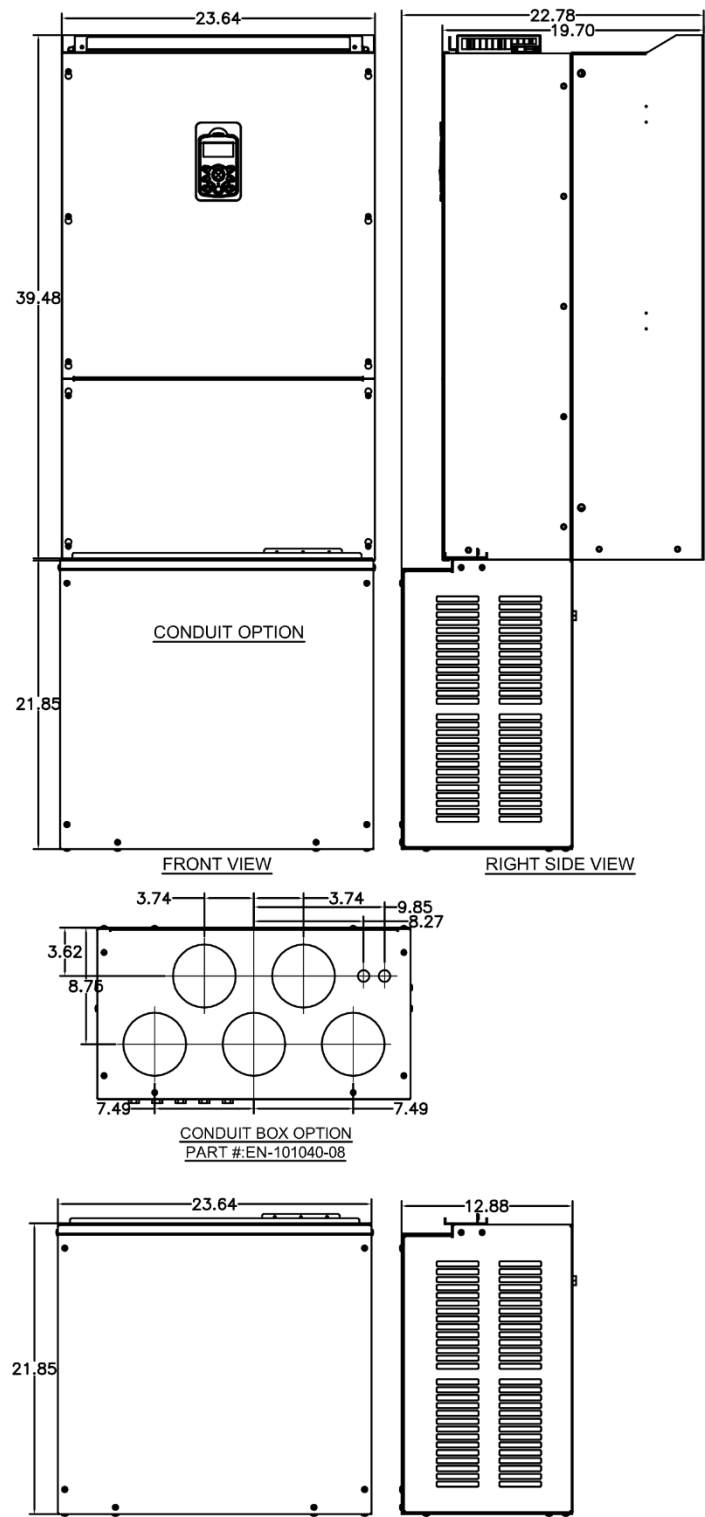
5.8 H2: 250HP – 300HP (460V)



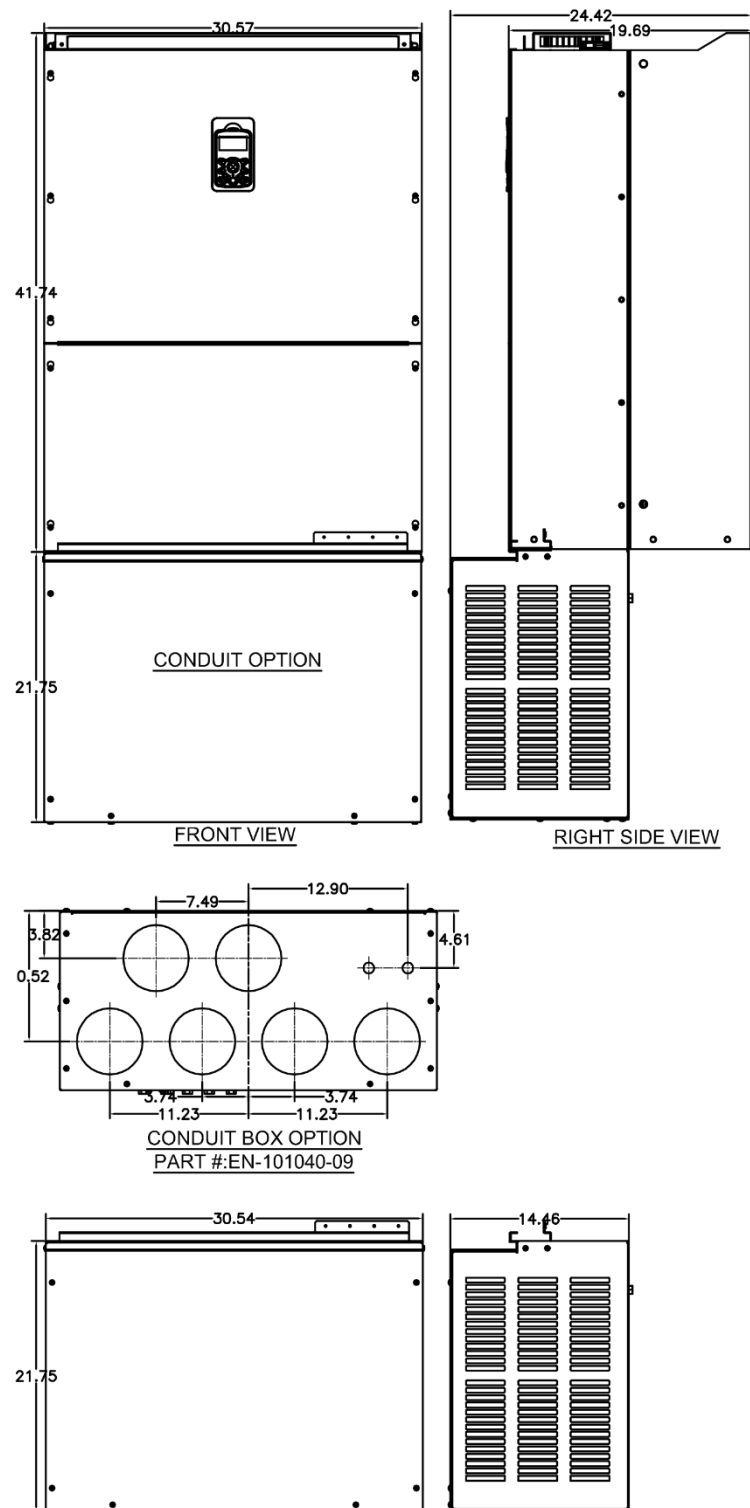
5.9 H2: 400HP (460V)



5.10 H2: 500HP – 650HP (460V)



5.11 H2: 800HP (460V)



6. Dimensions & Screw Sizes and Torque Specifications

Product - capacity	W (in.)	H (in.)	D (in.)	Terminal Screw Size	Screw Torque (Ft*lbs)
1HP – 15HP (230V), 1HP – 15HP (460V)	6.30	2.19	4.63	M4	0.15~0.44
20HP (230V), 20HP – 25HP (460V)	7.08	2.36	4.95	M5	0.3~0.74
25HP (230V), 30HP – 40HP (460V)	8.47	4.73	2.52		
50HP (460V)	10.84	4.43	7.25	M8	4.5~6.79
60HP – 75HP (460V)	12.81	5.28	7.25		
100HP – 125HP (460V)	12.81	7.05	7.21		
150HP – 200HP (460V)	11.82	11.01	14.54	M10	6.49~8.82
250HP – 300HP (460V)	14.97	12.14	14.85	M12	13.18~15.54
400HP (460V)	16.78	18.99	9.50		
500HP – 650HP (460V)	23.64	22.56	12.88		
800HP (460V)	30.54	23.34	14.46		

7. Revision History

No	Date	Edition	Changes
1	February 2021	First Edition	-



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