

3.2 Installation

When installing the inverter, ensure that inverter is installed in upright position (vertical direction) and there is adequate space around the unit to allow normal heat dissipation as per the following Fig. 3.2.1

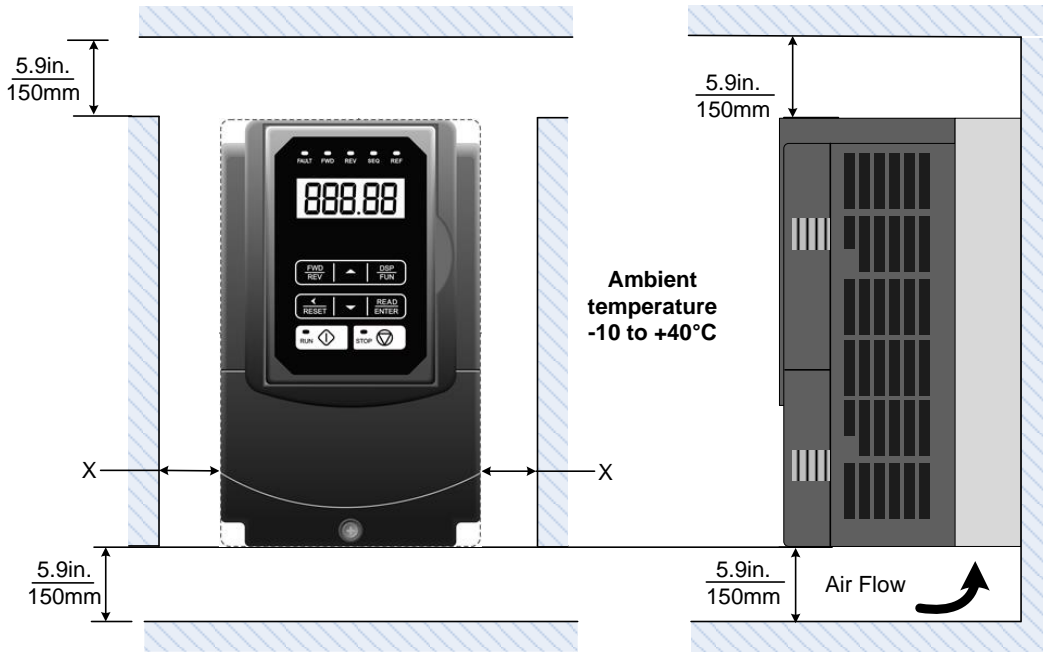


Fig 3.2.1: F510 Installation space

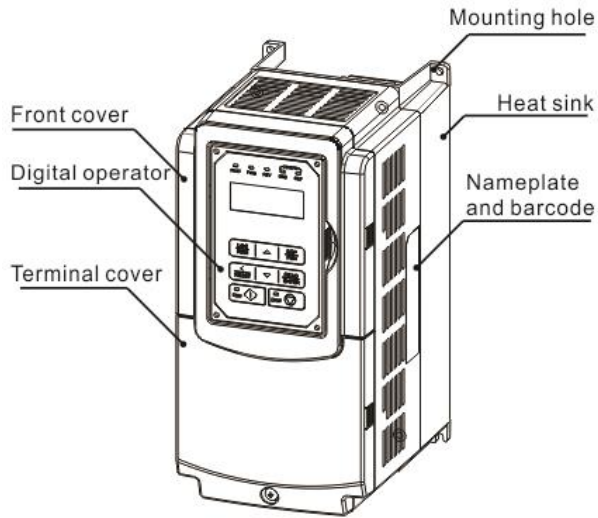
X = 1.18" (30mm) for inverter ratings up to 25HP

X = 1.96" (50mm) for inverter ratings 30HP or higher

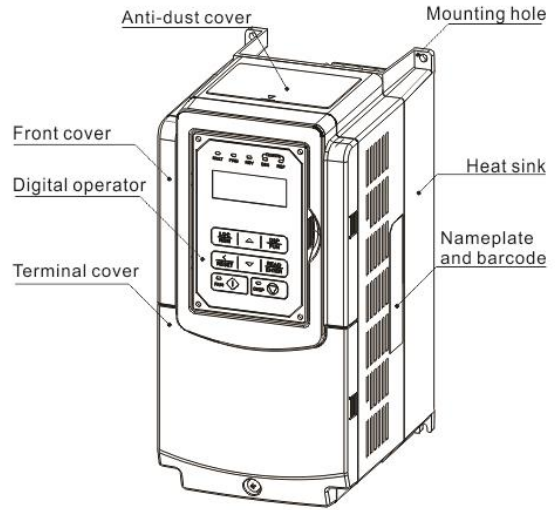
Important Note: The inverter heatsink temperature can reach up to 194°F / 90°C during operation; Use insulation material rated for this temperature.

3.3 External View

(a) 200V 1-7.5HP/ 400V 1-10HP

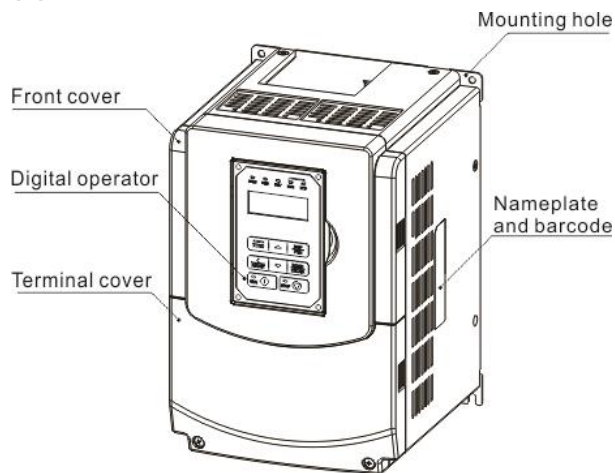


(Wall-mounted type, IEC IP00)

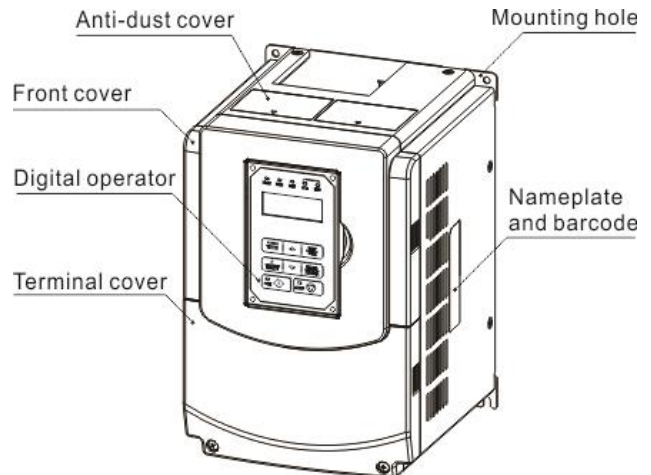


(Wall-mounted type, IEC IP20, NEMA1)

(b) 200V 10-30HP/ 400V 15-40HP

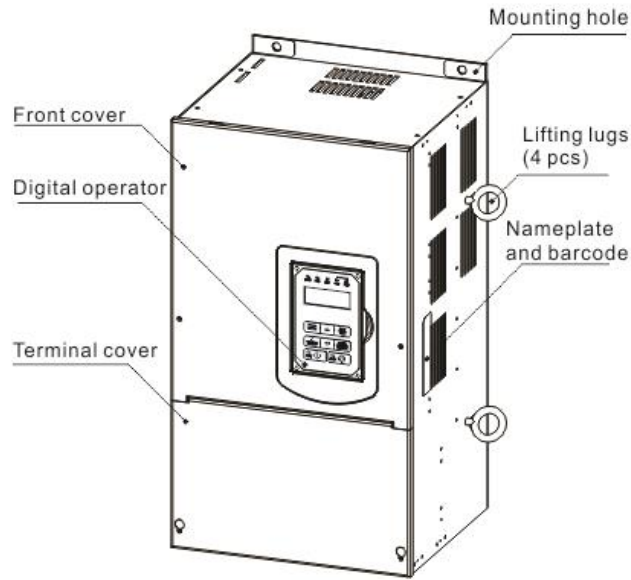


(Wall-mounted type, IEC IP00)



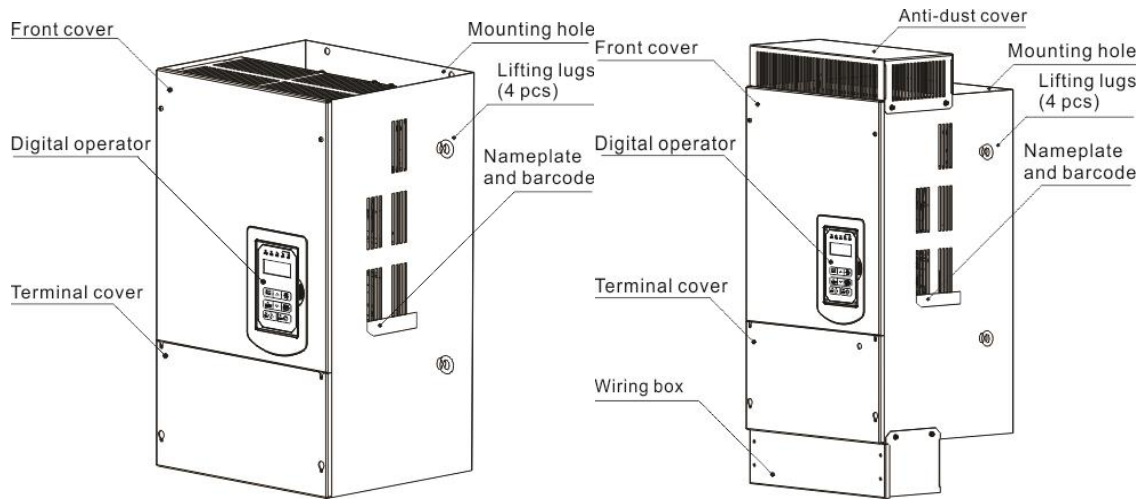
(Wall-mounted type, IEC IP20, NEMA1)

(c) 200V 40-50HP/ 400V 50-75HP



(Wall-mounted type, IEC IP20, NEMA1)

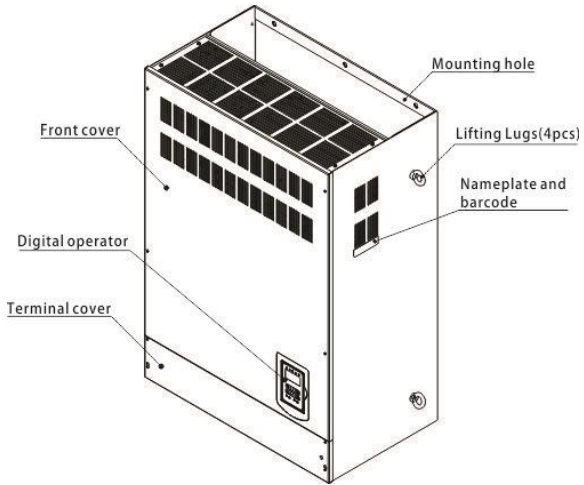
(d) 200V 60-125HP/ 400V 100-250HP



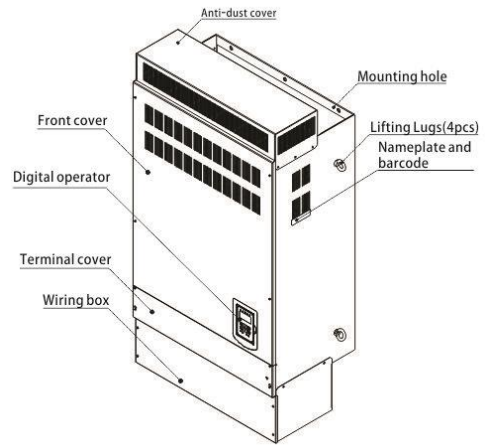
(Wall-mounted type, IEC IP00)

(Wall-mounted type, IEC IP20, NEMA1)

(e) 200V 150-175HP/ 400V 300-425HP

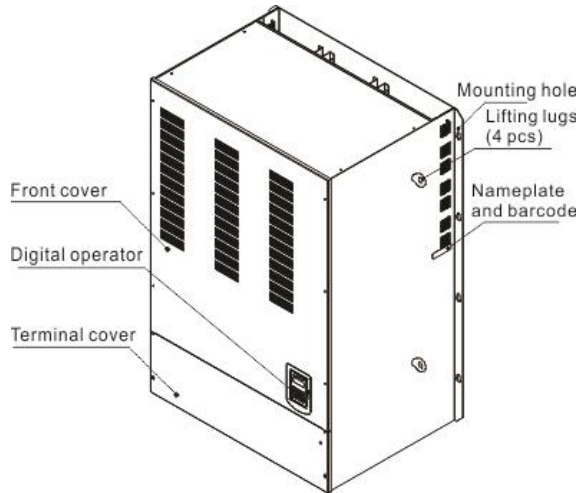


(Wall-mounted type, IEC IP00)

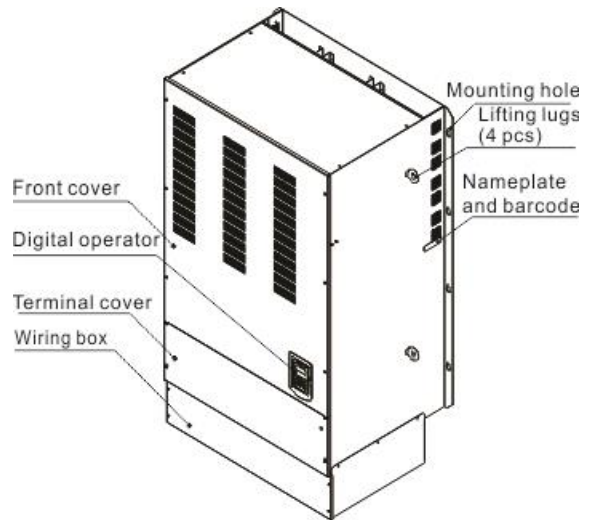


(Wall-mounted type, IEC IP20)

(f) 400V 535-800HP



(Wall-mounted type, IEC IP00)



(Wall-mounted type, IEC IP20)

3.4 Warning Labels

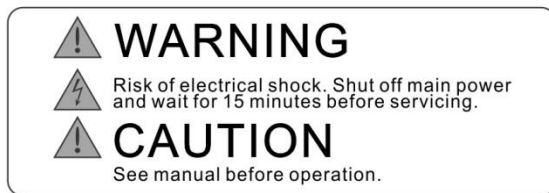
Important: Warning information located on the front cover must be read upon installation of the inverter.



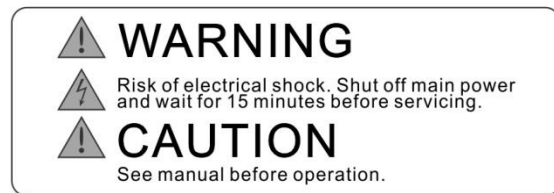
(a) 200V: 5 ~ 7.5HP / 400V: 5 ~ 10HP (IP20)



(b) 200V: 10 ~ 15HP / 400V: 15 ~ 20HP



(c) 200V: 20 ~ 125HP / 400V: 20 ~ 250HP



(d) 400V: 5 ~ 100HP / 400V: 5 ~ 100HP

3.5 Removing the Front Cover and Keypad

IP00 / IP20

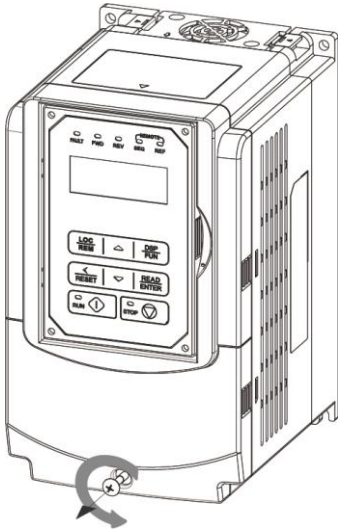


Caution

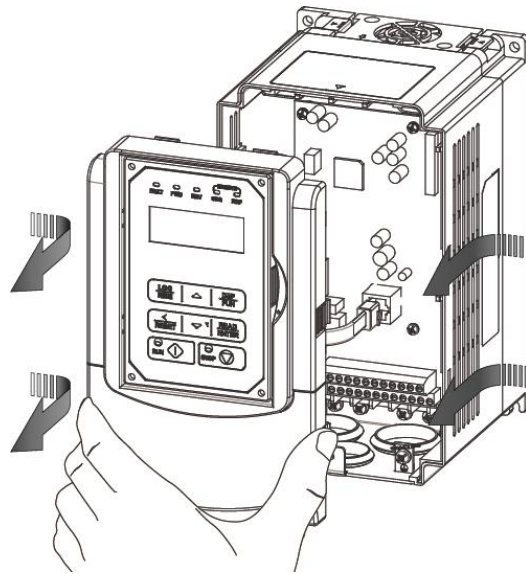
- Before making any wiring connections to the inverter the front cover needs to be removed.
- It is not required to remove the digital operator before making any wiring connections.
- Models 200V, 1 – 30 HP and 400V, 1 – 40 HP have a plastic cover. Loosen the screws and remove the cover to gain access to the terminals and make wiring connections. Place the plastic cover back and fasten screws when wiring connections have been made.
- Models 200V, 40 -175 HP and 400V, 50 – 800 HP have a metal cover. Loosen the screws and remove the cover to gain access to the terminals and make wiring connections. Place the metal cover back and fasten screws when wiring connections have been made.

3.5.1 Standard Type

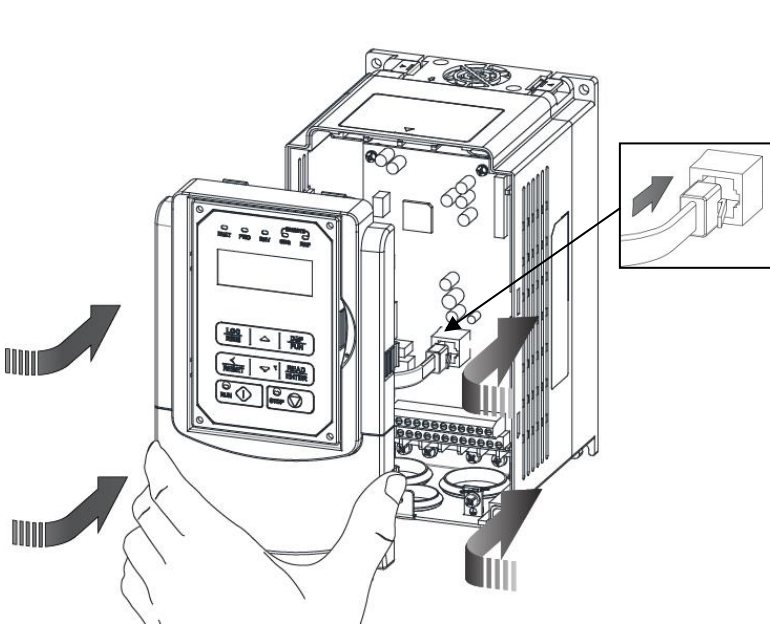
(a) 200V 1-3HP/ 400V 1-3HP



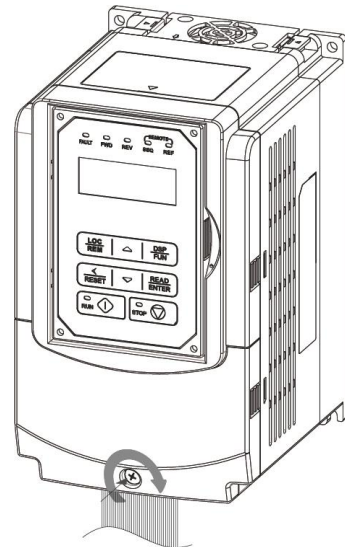
Step 1: Unscrew cover



Step 2: Remove cover and unplug RJ45connector

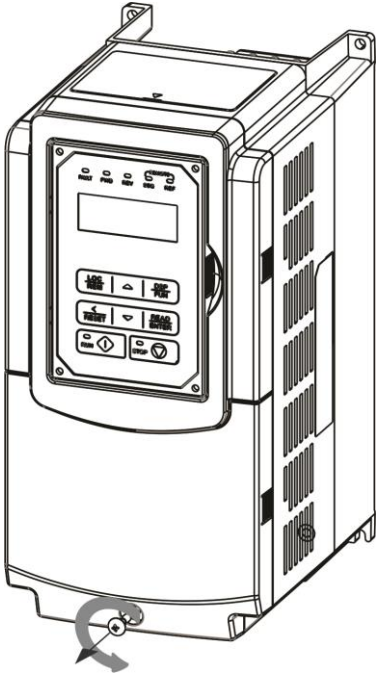


Step 3: Make wire connections, insert RJ45 connector and reinstall cover

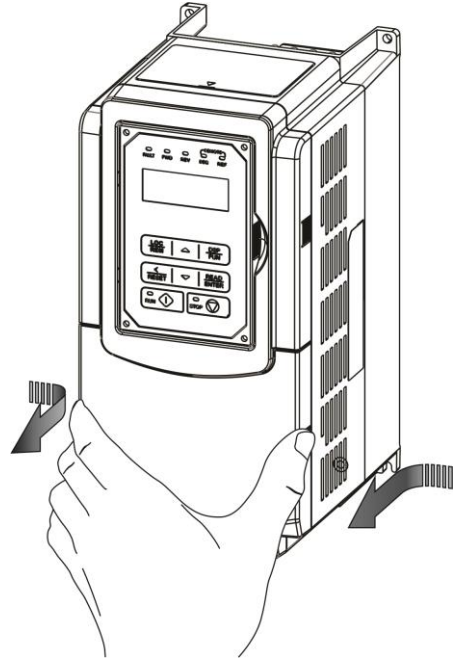


Step 4: Fasten screw

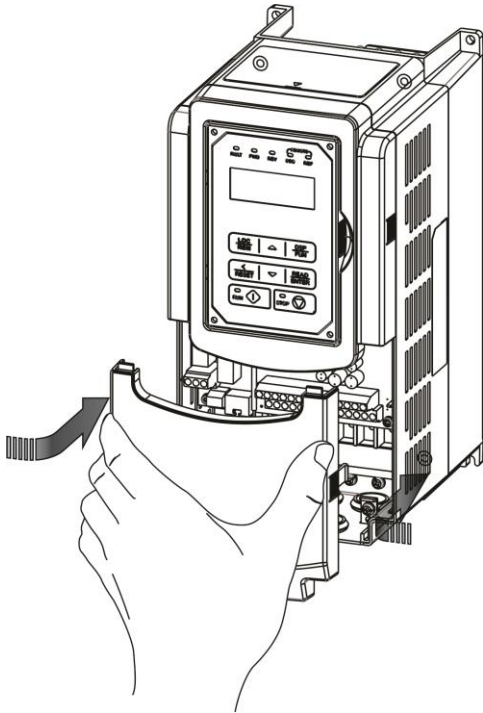
(b) 200V: 5 ~ 7.5 HP / 400V: 5 ~ 10 HP



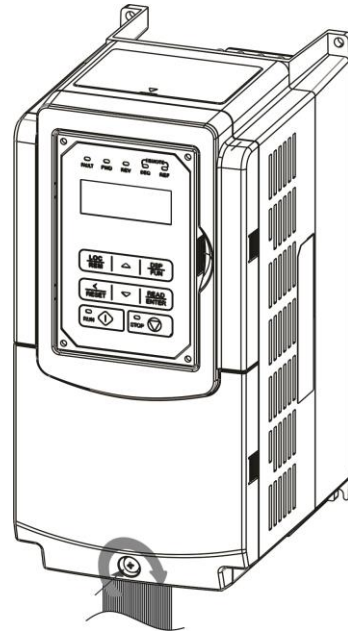
Step 1: Unscrew cover



Step 2: Remove cover

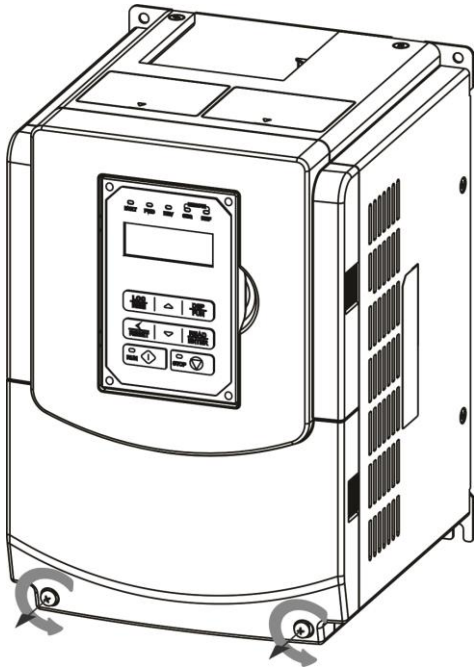


Step 3: Make wire connections and reinstall cover

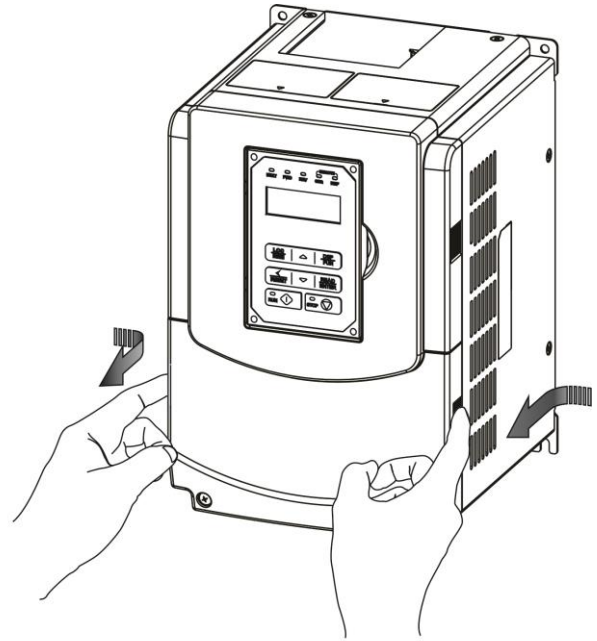


Step 4: Fasten screw

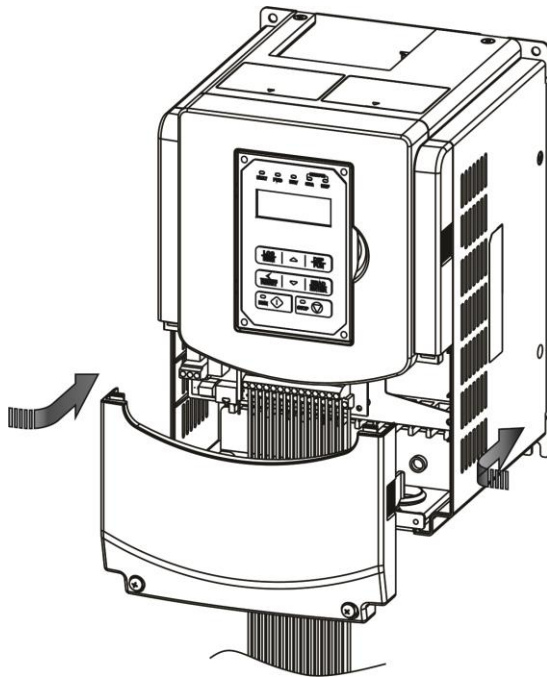
(c) 200V: 5 ~ 7.5 HP / 400V: 5 ~ 10 HP



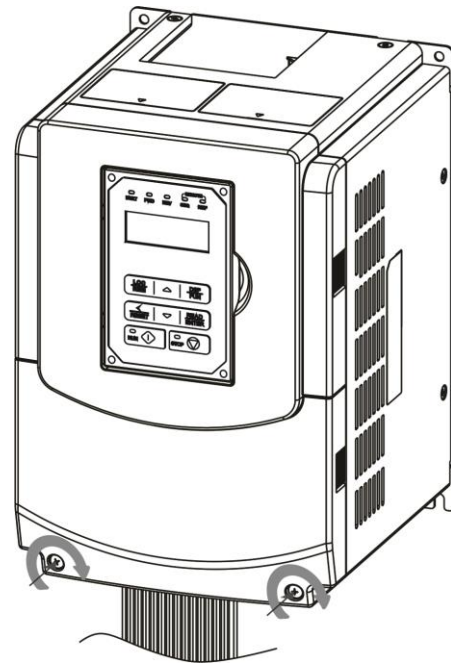
Step 1: Unscrew cover



Step 2: Remove cover

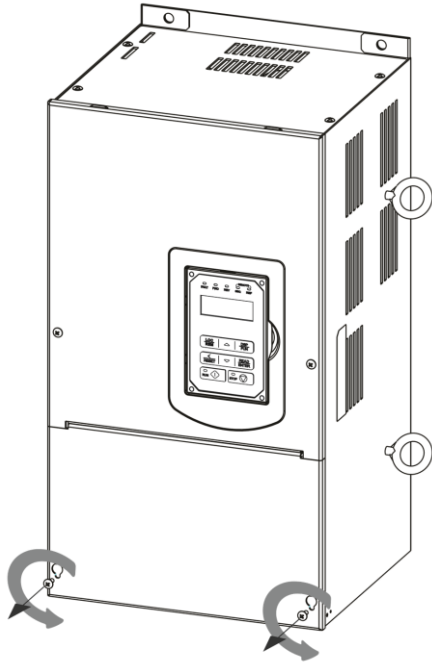


Step 3: Make wire connections and reinstall cover

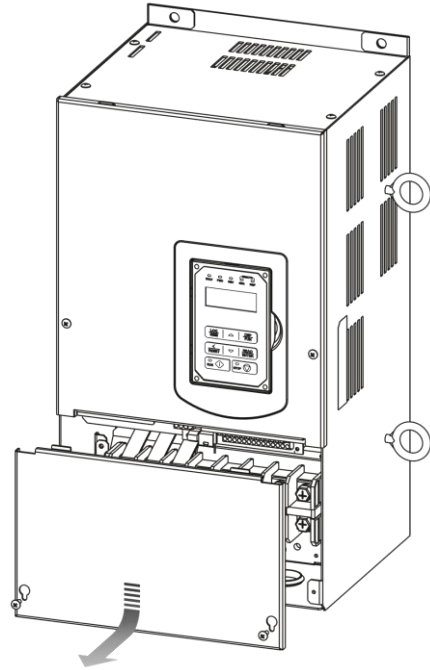


Step 4: Fasten screws

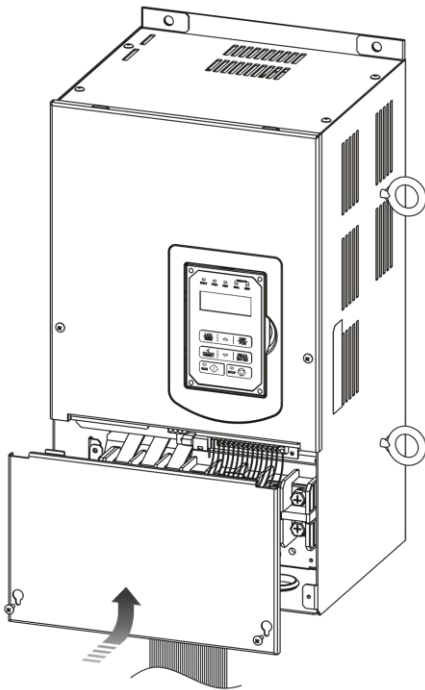
(d) 200V: 40 ~ 50 HP / 400V: 50 ~ 75 HP



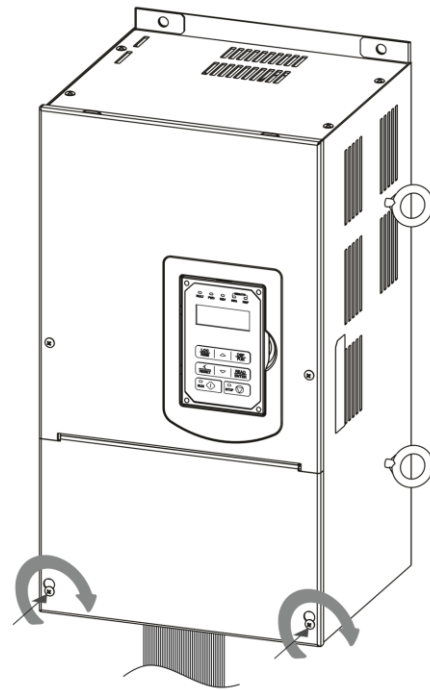
Step 1: Unfasten screw on cover



Step 2: Remove cover

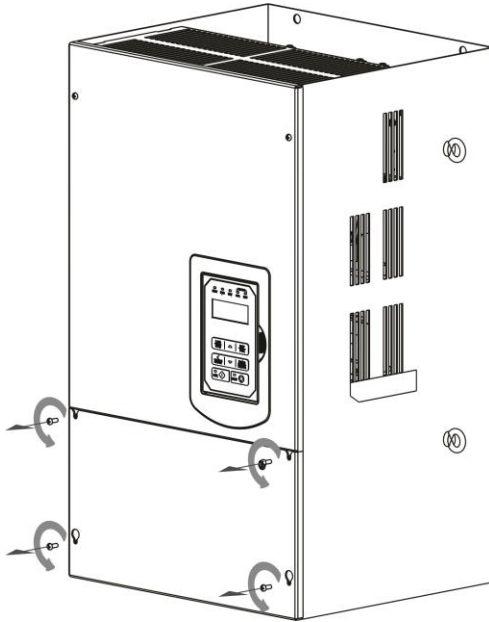


Step 3: Make wire connections and reinstall cover

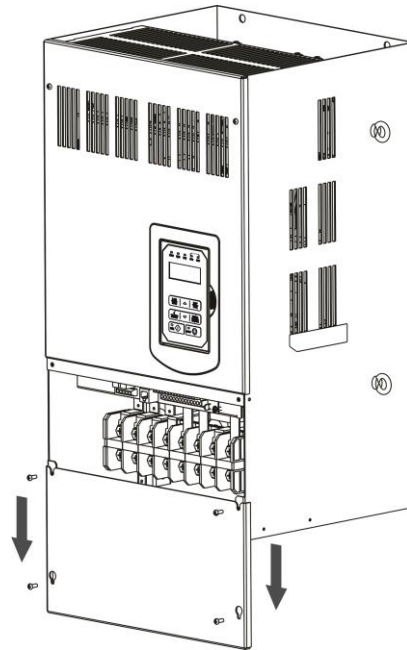


Step 4: Fasten screws

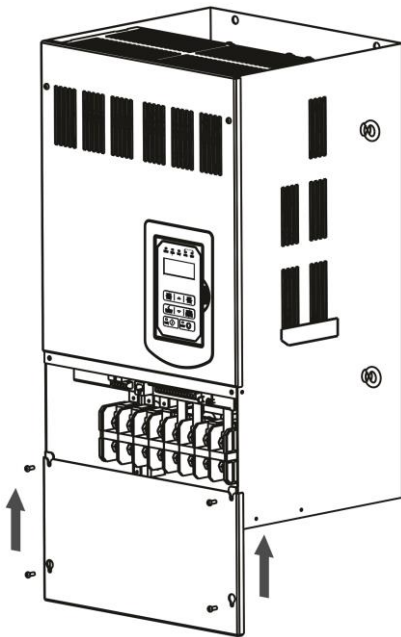
(e) 200V: 60 ~ 125 HP / 400V: 100 ~ 250 HP



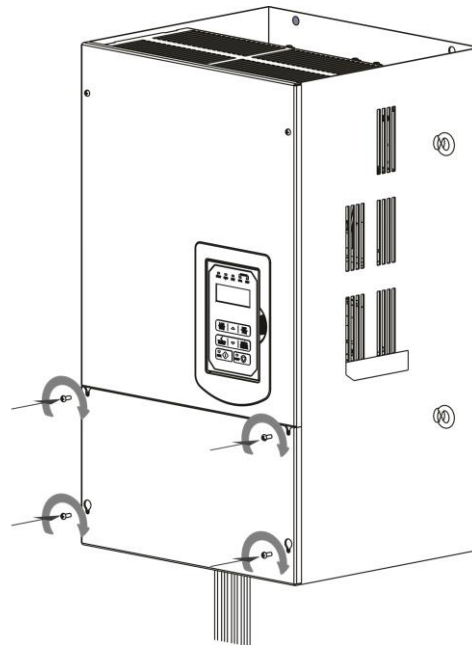
Step 1: Unfasten screw on cover



Step 2: Remove cover

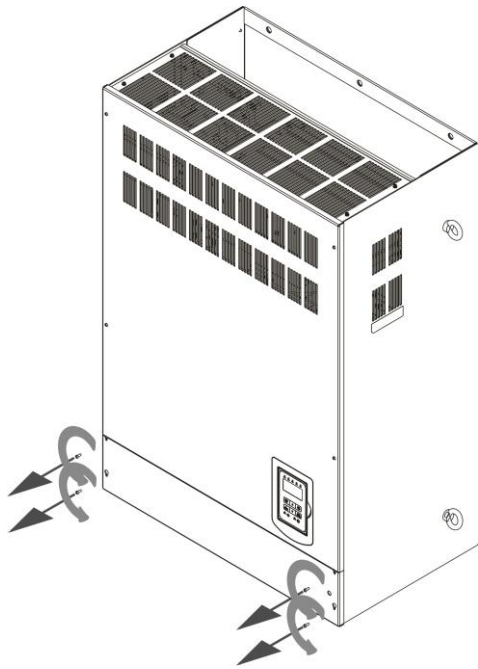


Step 3: Make wire connections and reinstall cover

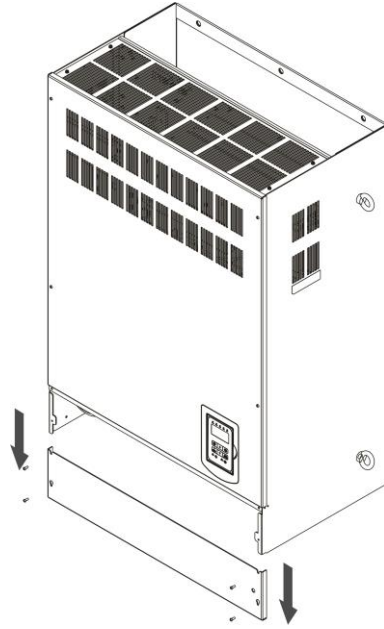


Step 4: Fasten screws

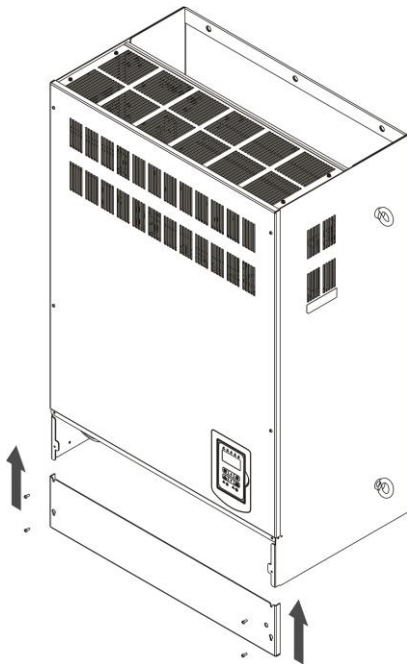
(f) 200V 150-175HP/ 400V 300-425HP



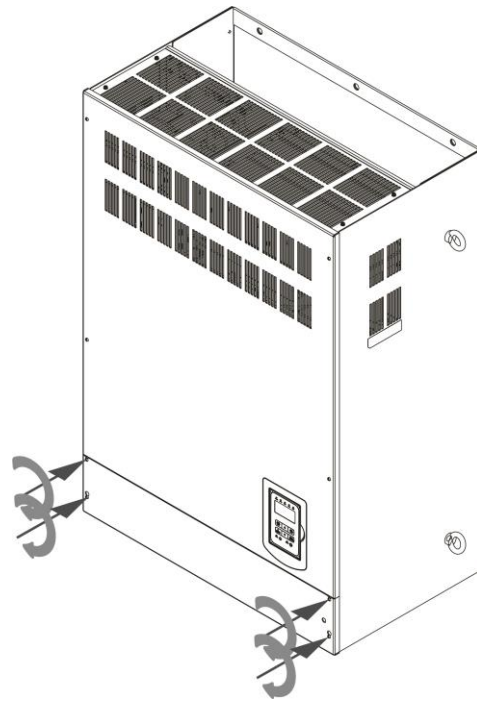
Step 1: Unscrew cover



Step 2: Remove cover

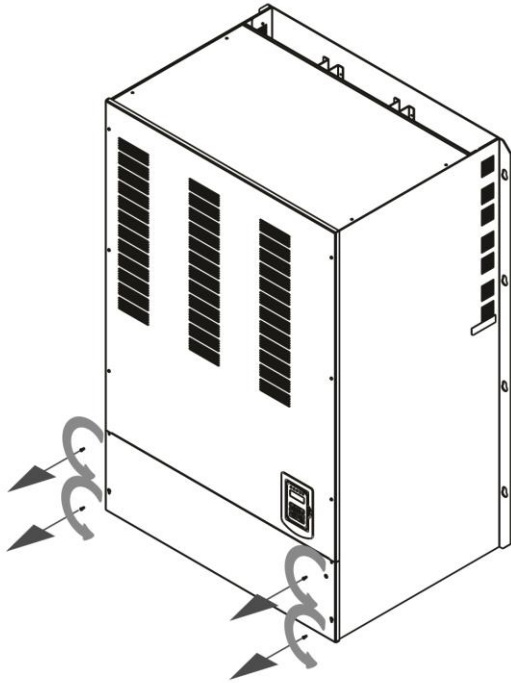


Step 3: Make wire connections and place cover back

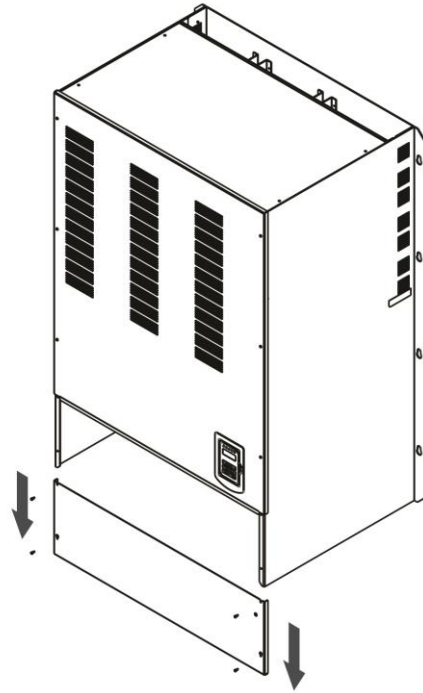


Step 4: Fasten screws

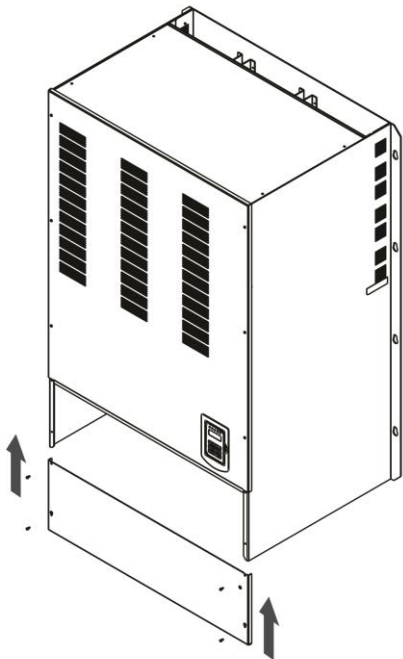
(g) 400V 535-800HP



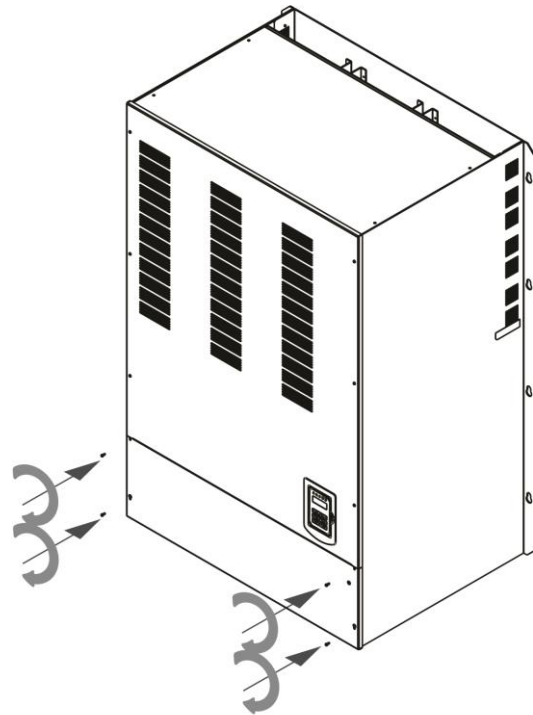
Step 1: Unscrew cover



Step 2: Remove cover



Step 3: Make wire connections and place cover back



Step 4: Fasten screws