

Instruction Manual

Dual Voltage Conversion Training (Pump Motor)

Purpose : To change the motor voltage configuration based on customer requirements by reconnecting the motor leads. Applicable Pump Model: AN-22-32

- From 208—240V → 380—480V, or
- From 380—480V → 208—240V

Step 1 — Verify Motor Configuration

Identify the motor type and current voltage configuration.

- Check the voltage on the nameplate.
- Confirm the motor leads: 12-leads
- Verify the pre-configured voltage.

This step is critical to determine the correct rewiring method.

Voltage
208 ~ 230v



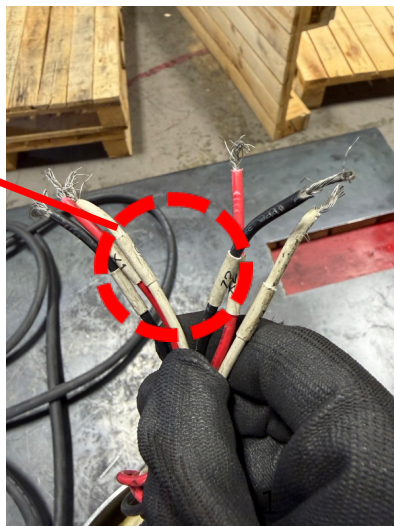
(12 Leads Motor)

Step 2 — Open Upper Cover & Organize Wires

- Loosen the long screws and remove the upper cover.
- Refer to the wiring diagram for the target voltage.
- Identify and organize all motor leads.

Typical lead labels:

- U1, U2
- V1, V2
- W1, W2
- X1, X2
- Y1, Y2
- Z1, Z2



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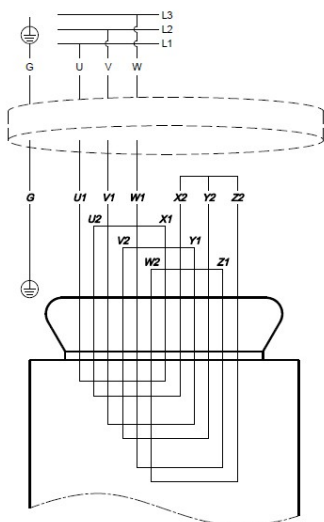
Step 3 — Perform Wiring Connections

- Connect wires according to the appropriate wiring diagram:
 - 208—240V configuration
 - 380—480V configuration
- Insert wires into closed-end connectors.
- Use a crimping tool to securely crimp the connectors.
- Perform a pull test to ensure all connections are tight and secure.



HCP HCP PUMP

WIRING DIAGRAM
MODEL : STATOR 12L Y CONNECTION 30
 No.: L1263BXX (12Leads 3Ph CN Y 380-480v)



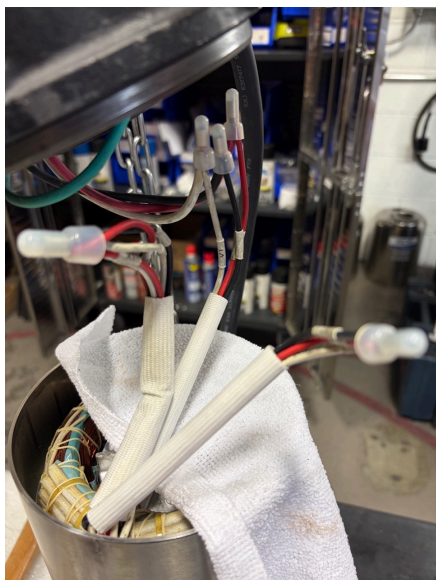
COLORS OF THE STATOR LEADS

U1/U2/X1/X2	Red
V1/V2/Y1/Y2	White
W1/W2/Z1/Z2	Black

COLORS OF THE CABLE

	VCT	H0TRN-F	SOW	S00W
U	Red	Brown	Red	
V	White	Black	White	
W	Black	Grey	Black	
G	Green	YellowGreen	Green	

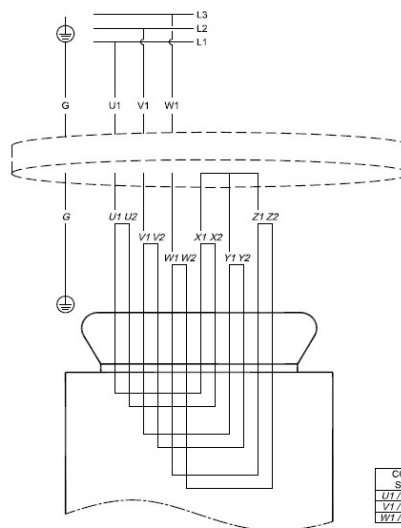
CN : Y (380-480V) wiring diagram



CN : Y (380-480V) configuration

HCP PUMP

WIRING DIAGRAM No1
MODEL I STATOR 12L 2Y CONNECTION 36
 No.: L1263AXX (12Leads 3Ph CN 2Y 208-240v)



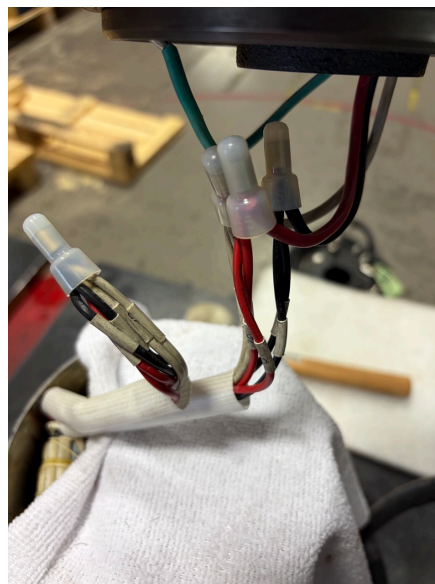
COLORS OF THE STATOR LEADS

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V1/V2/Y1/Y2	White
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COLORS OF THE CABLE

	VCT	H0TRN-F	SOW	S00W
U	Red	Brown	Red	
V	White	Black	White	
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G	Green	YellowGreen	Green	

CN : 2Y (208-240V) wiring diagram



CN : 2Y (208-240V) configuration

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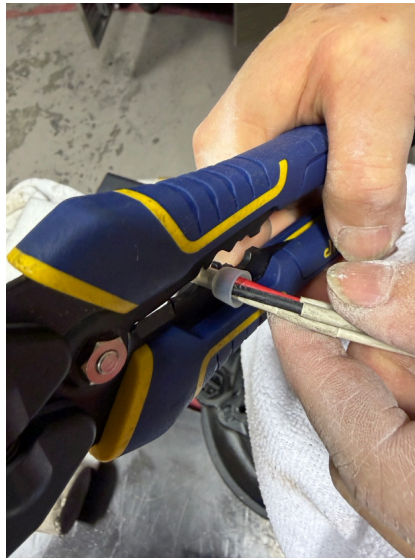
Additional Note:

- If the exposed conductor is too short:
 - Use a wire stripper to remove additional insulation.
 - Ensure sufficient conductor length for proper connection.



wire stripper:

Strip insulation carefully without damaging the conductor.



Wire Crimper:

Insert the wires fully into the closed-end connector before crimping.



Wire Crimper:

First apply a point crimp for positioning, then fully crimp the connector using the flat section.

Step 4 — Apply Grease to Wave Washer

Before reinstalling the upper cover:

- Apply a small amount of lubricating grease (3 points) to the wave washer.
- Ensure the wave washer is lightly adhered to the upper cover.

This helps keep the wave washer in position during assembly.



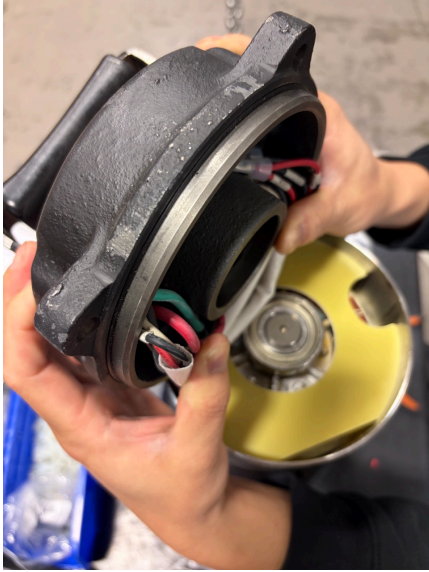
Hold the wave washer in place during assembly

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Step 5 — Reinstall Upper Cover

- Carefully fold and arrange the wires inside the upper cover.
- Ensure wires are not pinched or damaged when closing the cover.
- Inspect the O-ring:
 - Ensure it is clean, intact, and properly seated.



Step 6 — Align & Tighten Screws

- Align the first long screw with the weld seam on the pump as a reference point.
- Install the remaining screws in a cross (diagonal) pattern.
- Use a torque wrench to tighten all screws to the specified torque value.

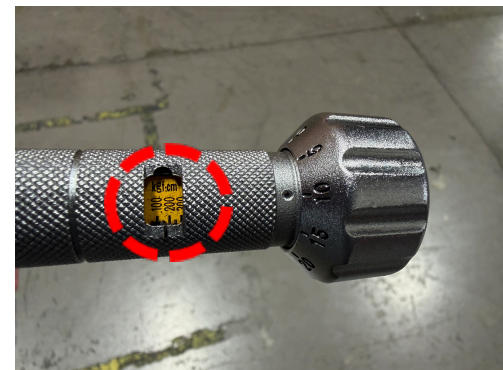
This ensure the proper sealing and even presure distrubution



Align all bolts with the weld seam.



Tighten screws in a cross (diagonal) pattern.



Set the torque according to the pump model.

Torque value : 160 kgf . cm

Additional Note:

Applicable Pump Models for 160 kgf . cm Torque

The following pump models share the same torque specification of 160 kgf . cm and can use this procedure.

This document applies to all models listed below with the same motor configuration.

Pump Model	Torque (kgf . cm)
AN-22	160
AN-23	160
AN-32	160
AN-33	160
AN-43	160
AN-35	160
FN-22	160
FN-23	160
FN-32	160
FN-33	160
FN-35	160
80SF 21.5	160
80SF 22.2	160
80SA21.5	160
80SA22.2	160