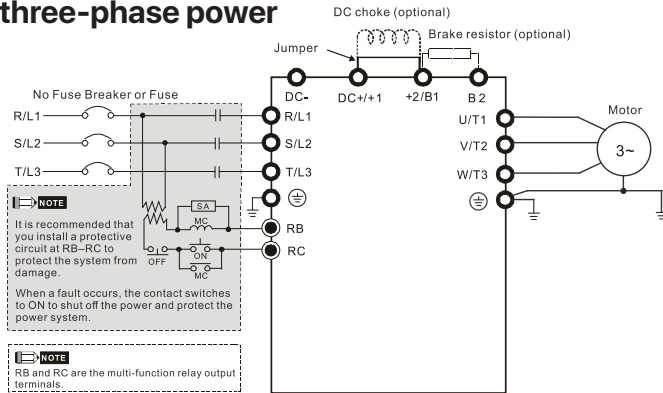


Input: One-phase/ three-phase power

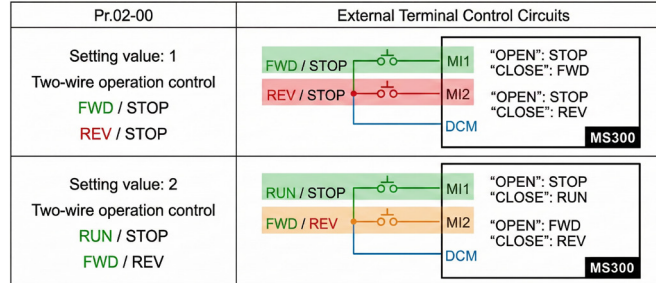


Connect Live to R and Neutral to S for single phase input supply
Connections U/T1, V/T2, W/T3 go to the motor

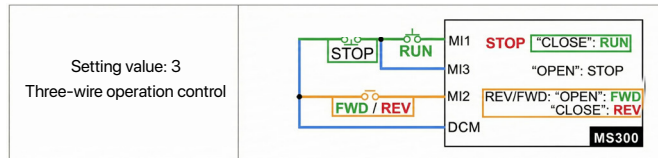
Connect 3 phase input supply to L1/R, L2/S, L3/T
Connections U/T1, V/T2, W/T3 go to the motor

Instructions for Remote Setup (Remote On/Off and Speed Variation)

- For remote stop and start connect between DCM and MI1 (FWD) and MI2 (REV) (DCM is your common)
- For remote Potentiometer connect the pot to +10V, AVI and ACM (common)
- Set 00.20** to 2 (Remote Potentiometer)
- Set 00.21** to 1 (Remote ON/OFF setting)
- Set 02.00** to 1 or 2 (2-wire operation control)



- Set 02.00** to 3 (3-wire operation control)



V/F Curve setup Factory setting is General Purpose

General purpose			Fan & Hydraulic			High starting torque		
	230V	400V		230V	400V		230V	400V
PR.	SETTING		PR.	SETTING		PR.	SETTING	
01-00	50	50	01-00	50	50	01-00	50	50
01-01	50	50	01-01	50	50	01-01	50	50
01-02	230	400	01-02	230	400	01-02	230	400
01-03	1.3	1.3	01-03	25	25	01-03	2.2	2.2
01-05			01-05			01-05		
01-04	10	20	01-04	50	100	01-04	23	46
01-06			01-06			01-06		
01-07	1.3	1.3	01-07	1.3	1.3	01-07	1.3	1.3
01-08	10	20	01-08	10	20	01-08	14	28

MECHTRIC

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Quick Start Setup Guide

VFD-ME300 Series
VFD-MS300 Series



MECHTRIC

www.mechtric.com.au

Important Notice

Wiring and connection must be carried out by a registered electrician.

Connection by an unqualified person voids the warranty.

Please check the suitability of the motor before attempting to connect it to the device.

Ensure the motor terminals are configured to suit supply from VSD, **for 1ph supply VFD the motor must be connected in DELTA. For 3ph supply VFD please consult the motor's name tag for 400V connection.**



1. **Status Display** – Display the drives current status
2. **LED Display** – Indicates frequency, voltage, current, user defined units
3. **Potentiometer** – For local frequency control
4. **Run Key** – to start drive locally
5. **UP & DOWN Key** – Used to change numerical numbers, frequency, parameters
6. **Mode** – Change between different display mode
7. **STOP/RESET** – Stops AC drive operation and resets the drive after a fault has occurred
8. **ENTER** – Used to enter and save the parameters

FOR ADVANCED SET UP REFFER TO THE FULL MANUAL

Quick Setup for Variable Speed Drive

Turn on power to unit and follow as below:



Note: In the parameter setting mode, you can press **ENTER** to return to the selection mode.

- F60.0 will be displayed on the screen.
- Press the enter button.
- 00. will appear on the screen
- Press enter again.
- 00.00 will appear on the screen.
- Use the up and down keys to change parameters selections to the desired one. Press "ENTER"
- You will now be able to change the parameter to the desired value or setting. Press enter. End will flash on your screen to indicate that your setting has been saved.
- Continue the above steps until all of your parameters have been set.
- Once all the parameters have been set press the "MODE" button till the F50.0 screen comes up again.

Displayed Item	Description
RUN ● FWD ● REV ● F60.0 ● STOP ● PLC ●	Displays the present frequency setting for the drive.
RUN ● FWD ● REV ● H50.0 ● STOP ● PLC ●	Displays the actual frequency output to the motor.
RUN ● FWD ● REV ● U 18 ● STOP ● PLC ●	Displays the user-defined output of a physical quantity. This example is for parameter Pr.00-04 = 30.
RUN ● FWD ● REV ● A 5.0 ● STOP ● PLC ●	Displays the load current.
RUN ● FWD ● REV ● Frd ● STOP ● PLC ●	Forward command.
RUN ● FWD ● REV ● rEv ● STOP ● PLC ●	Reverse command.
RUN ● FWD ● REV ● c 20 ● STOP ● PLC ●	Displays the count value.
RUN ● FWD ● REV ● 06.00 ● STOP ● PLC ●	Displays a parameter item.
RUN ● FWD ● REV ● 10 ● STOP ● PLC ●	Displays the content of a parameter value.
RUN ● FWD ● REV ● EF ● STOP ● PLC ●	Displays an external fault.
RUN ● FWD ● REV ● End ● STOP ● PLC ●	Displays the data that has been accepted and automatically stored in the internal memory.
RUN ● FWD ● REV ● Err ● STOP ● PLC ●	Displays the data set that is not accepted or has exceeded the value.

List of quick set parameters

00.02 All parameters are reset to factory settings for 50Hz, set to 9 (must be done after initial power up)

00.20 Source of master Frequency Command.

0 = UP/DOWN arrow (Factory setting)

2 = External analog input

3 = External UP/DOWN terminals

7 = Digital keypad potentiometer

00.21 Source of master Operation Command.

0 = Digital keypad (Factory setting)

1 = External terminals

01.00 Change to the maximum Frequency required

01.01 Change value to match Hz on motor name plate

01.02 Change to match voltage on motor name plate (Max Voltage output)

01.10 Upper limit frequency

01.11 Lower limit frequency

01.12 Acceleration time (factory setting 10sec)

01.13 Deceleration time (factory setting 10sec)

05.01 Set to Motor Name Plate Current

05.02 Set to Motor Name Plate kW

05.03 Set to Motor Name Plate Speed (rpm)

05.04 Set as the number of poles of the motor (3000rpm=2pole; 1500rpm=4pole; 1000rpm=6pole; 750rpm=8pole)

05-00 Auto tuning, option 1 Dynamic test for induction motor = 1 (note motor must be unloaded), Static test for induction motor = 2, after the parameter number is entered press MODE button to return to main screen showing F30.00 or F33.33, press the RUN button to start auto tune, these test should only be performed after all the above data is entered.

See back page for remote control set up