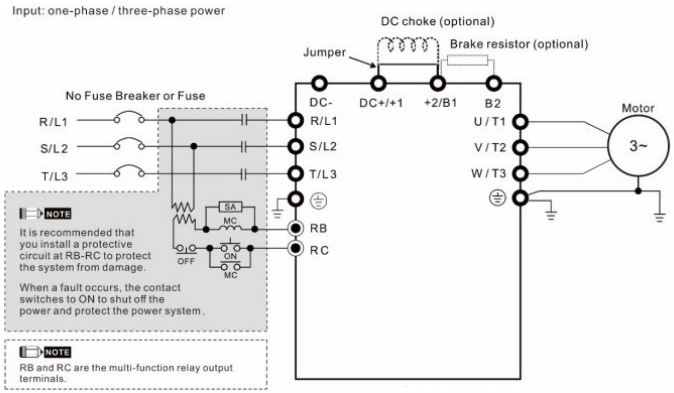
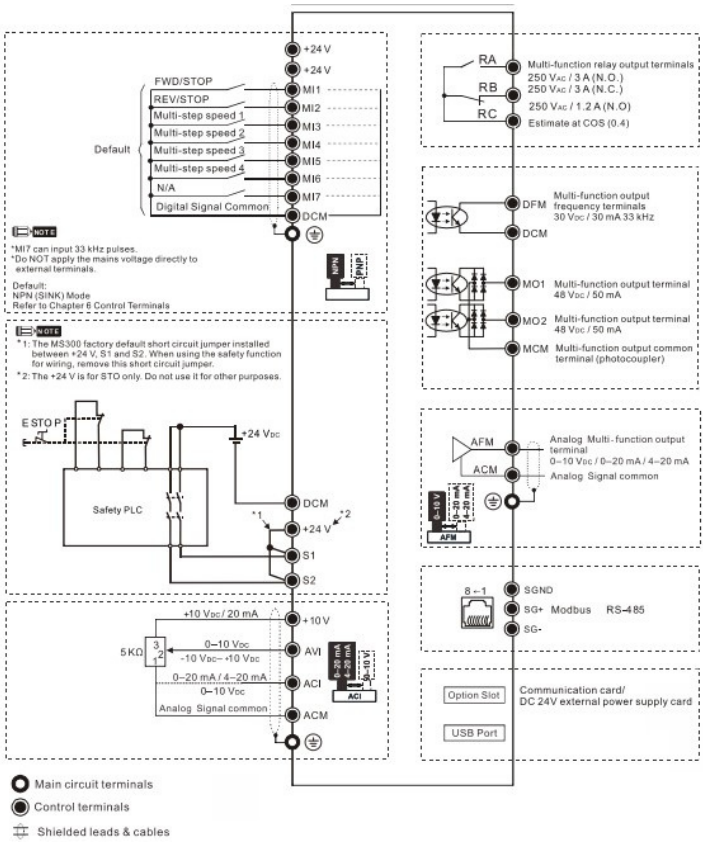


Connect Live to R and Neutral to S for single phase input supply
Connections U/T1, V/T2, W/T3 go to the motor

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

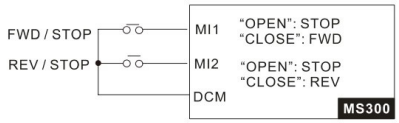
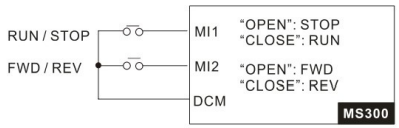
(Remote On/Off and Speed Variation)

- 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).

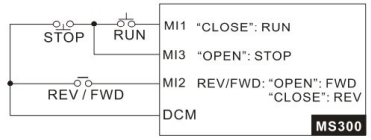
- Set **00.20** to 2 (Remote Potentiometer)

- Set **00.21** to 1 (Remote ON/OFF setting)

- Set **02.00** to 1 or 2 (2-wire operation control)

Pr.02-00	External Terminal Control Circuits
Setting value: 1 Two-wire operation control FWD / STOP REV / STOP	
Setting value: 2 Two-wire operation control RUN / STOP FWD / REV	

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

Setting value: 3 Three-wire operation control	

V/F curve set up
Factory setting is General purpose

General purpose

	230V	400V
PR.	SETTING	
01-00	50	50
01-01	50	50
01-02	230	400
01-03	1.3	1.3
01-05		
01-04	10	20
01-06		
01-07	1.3	1.3
01-08	10	20

Fan & Hydraulic

	230V	400V
PR.	SETTING	
01-00	50	50
01-01	50	50
01-02	230	400
01-03	25	25
01-05		
01-04	50	100
01-06		
01-07	1.3	1.3
01-08	10	20

High starting torque

	230V	400V
PR.	SETTING	
01-00	50	50
01-01	50	50
01-02	230	400
01-03	2.2	2.2
01-05		
01-04	23	46
01-06		
01-07	1.3	1.3
01-08	14	28

EMG ELECTRIC MOTOR GROUP
www.emgnz.co.nz

QUICK SETUP INSTRUCTIONS FOR VARIABLE SPEED DRIVE 1 PHASE TO 3 PHASE AND 3 PHASE TO 3 PHASE

DELTA

VFD-MS300 Series

RMS ROTATING MACHINERY SUPPLIES LIMITED

HAMILTON PH: 07 847 3374
CHRISTCHURCH PH: 03 666 3374
sales@rotatingmachinery.co.nz

BROOK MTL ELECTRIC MOTORS & DRIVES SOLUTIONS

AUCKLAND PH: 09 271 6063
info@brookmtl.co.nz

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 motors name tag for 400V connection.**

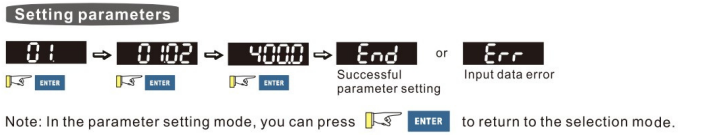
1. **Status Display –**Display the drives current status
2. **LED Display—**Indicates frequency, voltage, current, user defined units
3. **Potentiometer—**For local frequency control
4. **Run Key—** to start drive locally
5. **UP & DOWN Key—**Used to change numerical numbers, frequency, parameters
6. **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

www.rotatingmachinery.co.nz/products/drives

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 till 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.

10-2 Descriptions of keypad functions

Displayed items	Descriptions
RUN FWD REV F60.00 STOP PLC	Displays the present frequency setting for the drive.
RUN FWD REV H50.00 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 0600 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 none 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 preformed after all the above data is entered.

See back page for remote control set up