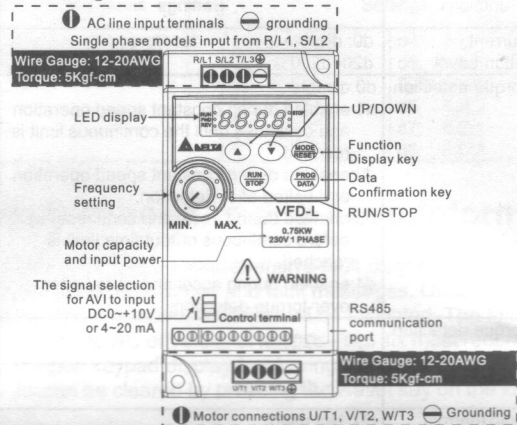


Main circuit wiring



Control circuit wiring

Figure 3 for models: VFD002L11A, VFD002L11B, VFD002L21A, VFD002L21B, VFD004L11A, VFD004L11B, VFD004L21A, VFD004L21B, VFD007L21A, VFD007L21B, VFD015L23A

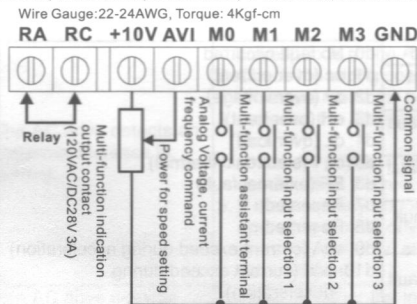
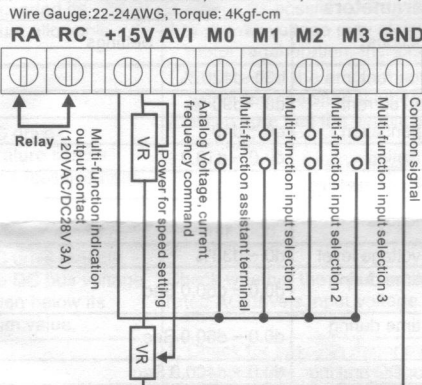


Figure 4 for models: VFD004L21D, VFD004L21E, VFD007L21D, VFD007L21E



Wiring Notes: PLEASE READ PRIOR TO INSTALLATION.

- Do not connect the AC input to any of the U/T1, V/T2, W/T3 terminals, as it will damage the AC drive..
- Ensure all screws are tightened to the proper torque rating.
- During installation, follow all national and local electrical, construction, and safety codes for the country the drive is to be installed in.
- Ensure the appropriate protective devices (circuit breaker or fuses) are connected between the power supply and AC drive.
- Make sure that the leads are connected correctly and the AC drive is properly grounded. (Ground resistance should not exceed 0.1Ω.)
- Use ground leads that comply with AWG/MCM standards and keep them as short as possible.
- Multiple VFD-L units can be installed in one location. All the units should be grounded directly to a common ground terminal. The VFD-L ground terminals may also be connected in parallel, as shown in the figure below. Ensure there are no ground loops.



- When the AC drive output terminals U/T1, V/T2, and W/T3 are connected to the motor terminals U, V, and W, respectively, the motor will rotate counterclockwise (as viewed from the shaft ends of the motor) when a forward operation command is received. To reverse the direction of motor rotation, switch over any of the two motor leads.
- Make sure that the power is capable of supplying the correct voltage and required current to the AC drive.
- Do not attach or remove wiring when power is applied to the AC drive.
- Do not monitor the signals on the circuit board while the AC drive is in operation.
- Route the power and control wires separately, or orthogonal to each other.
- If a filter is required for reducing EMI (Electro-Magnetic Interference), install it as close as possible to AC drive. EMI can also be reduced by lowering the Carrier Frequency.

- If the AC drive is installed in the place where a load reactor is needed, install the filter close to U/T1, V/T2, W/T3 side of AC drive. Do not use a Capacitor or L-C Filter (Inductance-Capacitance) or R-C Filter (Resistance-Capacitance).
- When using a general GFCI (Ground Fault Circuit Interrupter), select a current sensor with sensitivity of 200mA or above, and not less than 0.1-second operation time to avoid nuisance tripping. For the specific GFCI of the AC motor drive, please select a current sensor with sensitivity of 30mA or above.

4 Summary of Parameters

Group 0: User Parameters The parameter may be set during operation.

Pr.	Functions	Settings	Factory Setting
0-00	Identity code of drive (Read only)	d1: 40W d2: 100W d3: 200W d4: 400W d5: 750W d6: 1.5KW	
0-01	Rated current display (Read only)	40W: d0.4A 100W: d0.8A 200W: d1.6A 400W: d2.5A 750W: d4.2A 1.5K: d7.0A	
0-02	Parameter reset	d10: Reset Parameters to Factory Setting	d0
0-03	Start-up display of AC drive	d0: F (Frequency command) d1: H (output frequency) d2: U (user-defined unit) d3: A (output current)	d0
0-04	User-defined Unit	d0: Display User-Defined Unit (u) d1: Display Counter Value (C) d2: Display Process Operation (1=tt) (Display the current speed's step and the rest time for this step speed) d3: Display DC-BUS voltage (U) d4: Display output voltage (E)	d0
0-05	User-defined coefficient K	d0.1 ~ d160	d1.0
0-06	Software version	Read only	##
0-07	Password input	d0 ~ d999	d0
0-08	Password configuration	d0 ~ d999	d0

Group 1: Basic Parameters

Pr.	Functions	Settings	Factory Setting
1-00	Maximum operation Freq.	d50.0 ~ d400Hz	d60.0
1-01	Maximum setting Freq.	d10.0 ~ d400Hz	d60.0
1-02	Maximum output voltage	d2.0 ~ d255V	d220
1-03	Mid-point freq.	d1.0 ~ d400Hz	d1.0
1-04	Mid-point voltage	d2.0 ~ d255V	d12.0
1-05	Minimum output freq.	d1.0 ~ d60.0Hz	d1.0
1-06	Minimum output voltage	d2.0 ~ d255V	d12.0
1-07	Upper bound of freq.	d1 ~ d110%	d100
1-08	Lower bound of freq.	d0 ~ d100%	d0.0
1-09	Accel time 1 (Tacc1)	d0.1 ~ d600 Sec	d10.0
1-10	Decel time 1 (Tdec1)	d0.1 ~ d600 Sec	d10.0
1-11	Accel time 2	d0.1 ~ d600 Sec	d10.0
1-12	Decel time 2	d0.1 ~ d600 Sec	d10.0
1-13	JOG Accel time	d0.1 ~ d600 Sec	d10.0
1-14	JOG Decel time	d0.0 ~ d600 Sec	d10.0
1-15	JOG frequency	d1.0Hz~d400Hz	d6.0
1-16	Auto-accel/decel	d0: Linear Accel/Decel d1: Auto accel, linear decel d2: Linear accel, auto decel, d3: Auto Accel/Decel d4: Linear accel. Auto decel, stall prevention during deceleration d5: Auto accel. Auto decel, stall prevention during deceleration	d0
1-17	S-curve setting in acceleration	d0 ~ d7	d0
1-18	S-curve setting in deceleration	d0 ~ d7	d0

Group 2: Operation Method Parameters

Pr.	Functions	Settings	Factory Setting
2-00	Source of frequency command	d0: Digital keypad d1: 0 ~ 10V from AVI d2: 4 ~ 20mA from AVI d3: Controlled by V.R on drive d4: RS-485 communication interface	d0
2-01	Source of operation command	d0: By digital keypad d1: By external terminals, keypad STOP enable d2: By external terminals, keypad STOP enable d3: By RS-485 communication interface, keypad STOP enable d4: By RS-485 communication interface, keypad STOP disable	d0
2-02	Stop method	d0: Ramp stop d1: Coast stop	d0
2-03	Carrier freq.	d3 ~ d10K Hz	d10