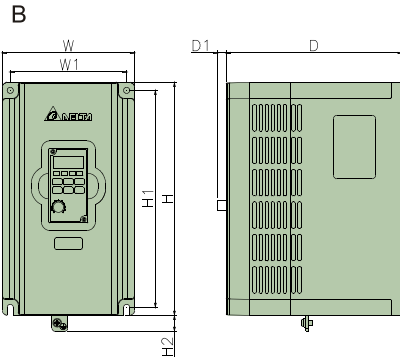
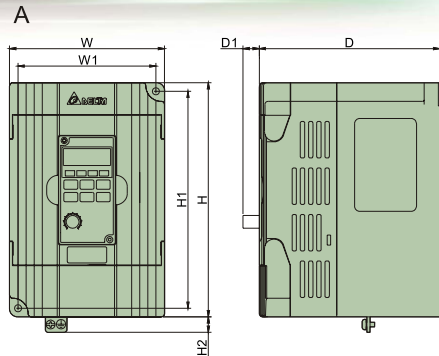


VFD-M

External Dimensions



VFD-M

External Dimensions

Dimensions

Model	W	W1	H	H1	D	D1	Fan	Fig
VFD000M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD000M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD000M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD000M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD000M23A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD007M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD007M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD007M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD007M23A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD007M3B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD007M53A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD015M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD015M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD015M23A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	A
VFD015M43B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD015M53A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD022M21A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD022M23B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD022M43B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD022M53A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD037M23A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD037M43A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD037M53A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD055M23A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD055M43A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD055M53A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD075M43A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B
VFD075M53A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	B

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Hotline: 1900.6536 - Website: HOPLONGTECH.COM



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DELTA ELECTRONICS, INC.

VFD

Delta VFD-M Series

Variable Speed AC Motor Drives

Features:

- ▶ 16-bit microprocessor controlled PWM output
- ▶ Automatic torque boost & slip compensation
- ▶ Output frequency 0.1~400Hz
- ▶ 8-step speed control & 7-step process control
- ▶ Low-noise carrier frequency up to 15kHz
- ▶ 2 accel./decel. times & S-curve
- ▶ Process follower 0~10VDC, 4~20mA
- ▶ Communication interface RS-485 (Baud rate 38400)
- ▶ Energy saving & automatic voltage regulation
- ▶ Adjustable V/F curve & Simple vector control
- ▶ Automatic adjustment of accel./decel. times
- ▶ PID feedback control
- ▶ Simple position function
- ▶ 0 Speed Holding function
- ▶ Sleep / Revival function build-in



Voltage Range:

- 1 Phase 115V Series : 0.2~0.75KW (0.25~1HP)
- 1 Phase 230V Series : 0.4~2.2KW (0.5~3HP)
- 3 Phase 230V Series : 0.4~5.5KW (0.5~7.5HP)
- 3 Phase 460V Series : 0.75~7.5KW (1~10HP)
- 3 Phase 575V Series : 0.75~7.5KW (1~10HP)

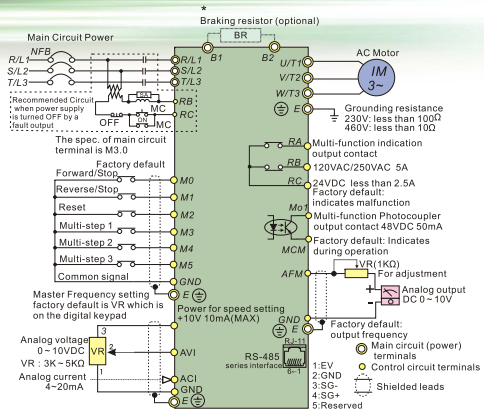


VFD-M series have been approved by CE and UL

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VFD-M

Standard wiring diagram



NOTE: Do not plug a Modem or telephone line to the RS-485 communication port, permanent damage may result. Terminal 1& 2 are the power sources for the optional copy keypad and should not be used while using RS-485 communication.

* If it is single phase model, please select any of the two input power terminals in main circuit power.
* Single phase model can be input 3-phase power.

Standard specifications

115V Series 1-Phase

	002	004	007
Model Number VFD115M	0.2	0.4	0.75
Max. Applicable Motor Output (kW)	0.25	0.5	1.0
Max. Applicable Motor Output (HP)	0.6	1.0	1.6
Rated Output Capacity (kVA)	1.6	2.5	4.2
Rated Output Current (A)	3-Phase proportional to twice the Input Voltage		
Maximum Output Voltage (V)	0.1~400Hz		
Output Frequency (Hz)	1-15		
Carrier Frequency (kHz)	Single Phase		
Rated Input Current (A)	6	9	16
Rated Voltage , Frequency	Single phase 100-120V , 50/60Hz		
Voltage Tolerance	±10%(90~132V)		
Frequency Tolerance	±5%(47~63Hz)		
Cooling Method	Fan Cooled		
Weight(Kg)	1.5	1.5	1.5

Standard specifications

230V Series 1-Phase/3-Phase

		004	007	015	022	037	055
Model Number VFD230M		0.4	0.75	1.5	2.2	3.7	5.5
Max. Applicable Motor Output (kW)		0.5	1.0	2.0	3.0	5.0	7.5
Max. Applicable Motor Output (HP)		1.0	1.9	2.7	3.8	6.5	9.5
Rated Output Capacity (kVA)		2.5	5.0	7.0	10	17	25
Rated Output Current (A)		2.5	5.0	7.0	10	17	25
Maximum Output Voltage (V)		3-Phase Proportional to Input voltage					
Output Frequency (Hz)		0.1~400Hz					
Carrier Frequency (kHz)		1~15					
Input Rating	Output Rating	Single / 3-Phase				3-Phase	
		6.3 / 2.9	11.5 / 7.6	15.7 / 8.8	27 / 12.5	19.6	28
		3.2	6.3	9.0	12.5		
		Single / 3-Phase				3-Phase	
		200-240V , 50 / 60Hz				200-240V , 50 / 60Hz	
Rated Input Current (A)							
Single (3-phase Input Current)							
Rated Voltage , Frequency		Single / 3-Phase 200-240V , 50 / 60Hz				3-Phase 200-240V , 50 / 60Hz	
Voltage Tolerance		± 10%(180~264V)					
Frequency Tolerance		± 5%(47~63Hz)					
Cooling Method		Fan Cooled					
Weight (Kg)		2.2 / 1.5	2.2 / 1.5	2.2 / 1.5	2.2	3.2	3.2

460V Series 3-Phase

	007	015	022	037	055	075
Model Number VFD460M	0.75	1.5	2.2	3.7	5.5	7.5
Max. Applicable Motor Output (kW)	1.0	2.0	3.0	5.0	7.5	10
Max. Applicable Motor Output (HP)	2.3	3.1	3.8	6.2	9.9	13.7
Rated Output Capacity (kVA)	3.0	4.0	5.0	8.2	13	18
Maximum Output Voltage (V)	3-Phase Proportional to Input voltage					
Output Frequency (Hz)	0.1~400Hz					
Carrier Frequency (kHz)	1-15					
Rated Input Current (A)	3-Phase					
Rated Voltage , Frequency	4.2	5.7	6.0	8.5	14	23
Voltage Tolerance	3-Phase 380 to 480V , 50 / 60Hz					
Frequency Tolerance	±10%(342~528V)					
Cooling Method	±5%(47~63Hz)					
Weight (Kg)	1.5	1.5	2.0	3.2	3.2	3.3

575V Series 3-Phase

	007	015	022	037	055	075
Model Number VFD575M	0.75	1.5	2.2	3.7	5.5	7.5
Max. Applicable Motor Output (kW)	1.0	2.0	3.0	5.0	7.5	10
Max. Applicable Motor Output (HP)	1.7	3.0	4.2	6.6	9.9	12.2
Rated Output Capacity (kVA)	1.7	3.0	4.2	6.6	9.9	12.2
Maximum Output Voltage (V)	3-Phase Proportional to Input voltage					
Output Frequency (Hz)	0.1~400Hz					
Carrier Frequency (kHz)	1-10					
Rated Input Current (A)	3-Phase					
Rated Voltage , Frequency	2.4	4.2	5.9	7.0	10.5	12.9
Voltage Tolerance	3-Phase 500 to 600V , 50 / 60Hz					
Frequency Tolerance	-15% , +10% (425~660V)					
Cooling Method	±5%(47~63Hz)					
Weight (Kg)	Fan Cooled					
Weight(Kg)	1.5	1.5	2.0	3.2	3.2	3.3

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Standard specifications

Control Characteristics	Control System		SPWM (Sinusoidal Pulse Width Modulation)/control (V/F or sensorless vector control)
	Freq. Setting Resolution		0.1Hz
	Output Frequency Resolution		0.1Hz
	Torque Characteristics		Including the auto-torque, auto-slip compensation; starting torque can be 150% at 5.0Hz
	Overload Endurance		150% of rated current for 1 minute
	Skip Frequency		Three zones, settings range 0.1~400Hz
	Accel/Decel Time		0.1 to 600 seconds (2 independent settings for Accel/Decel Time)
	Stall Prevention Level Frequency Setting		20%~200%, Setting of Rated Current
	DC Injection Braking		Operation frequency 0~60Hz, output 0~100% rated current Start time 0~5 seconds, stop time 0~25 seconds
	Braking Torque		Approx. 20% (up to 125% possible with option braking resistor or braking unit externally mounted)
Operating Characteristics	V/F Pattern		Adjustable V/F pattern
	Frequency Setting	Keypad	Set by [▲] [▼]
		External Signal	Potentiometer-5K(Ω)/0.5W, 0 to +10VDC; 4 to 20mA, RS-485 interface; Multi-Function Inputs 0 to 5 (7 steps, Jog, up/down)
	Operation Setting Signal	Keypad	Set by RUN, STOP
		External Signal	2 wires / 3 wires (Run, Stop, Forward / Rev.), JOG operation, RS-485 serial interface (MODBUS)
	Multi-Function Input Signal		Multi-step selection 0 to 7, Jog, accel/decel inhibit, first to forth accel/decel switches, counter PLC operation, external Base Block (NC, NO), auxiliary motor control is invalid, ACI/AVI selections, drive reset, UP/DOWN key settings, sink/source selection
	Multi-Function Output Indication		AC Drive Operating, Frequency Attained, Non-zero, Base Block, Fault Indication, Local/Remote indication, PLC Operation indication, Auxiliary Motor Output, Driver is Ready, Overheat, Alarm, Emergency Stop
	Analog Output Signal		Analog frequency/current signal output.
	Alarm Output Contact		1Form C contact or open collector output.
	Operation Functions		AVR, S-Curve, Over-Voltage, Over-Current Stall Prevention, Fault Records, Adjustable Carrier Frequency, DC Braking, Momentary Power Loss restart, Auto Tuning, Frequency Limits, Parameter Lock/Reset, Vector Control, Counter, PID Control, PLC, MODBUS Communication, Reverse Inhibition, abnormal reset, abnormal re-start, digital frequency output, sleep/revival function, 1 st/2nd frequency source selections
Protective Functions	Self-testing, Over Voltage, Over Current, Under Voltage, Overload, Overheating, External Fault, Electronic thermal, Ground Fault.		
	Display Keypads		6-key, 4-digit, 7-segment LED, 4 status LEDs, master frequency, output frequency, Output current, custom units, parameter values for setup, review and faults, RUN, STOP, RESET, FWD/REV
	Protection Level		IP20
Environmental Conditions	Pollution Degree		2
	Installation Location		Altitude 1,000m or less, keep from corrosive gas, liquid and dust
	Ambient Temperature		-10°C to 40°C (-10°C to 50°C without blind plate) Non-Condensing and not frozen
	Storage / Transportation Temperature		-20°C to 60°C
	Ambient Humidity		Below 90% RH (non-condensing)
	Vibration		9.80665m/s ² (1G) less than 20Hz, 5.88m/s ² (0.6G) at 20 to 50Hz
	Approvals		
CEULC			

