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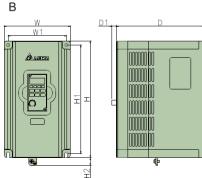


Dimensions

unit:mm



D1 W1 Asam 뒤ェ |0|



 Inclisions								unit: mm (inch)
Model	w	W1	н	H1	D	D1	Fan	Fig
VFD002M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	A
VFD004M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD004M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	А
VFD004M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	<u>^</u>
VFD004M23A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	
VFD007M11A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD007M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	
VFD007M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
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
VFD007M438	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD007M53A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD015M21A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	
VFD015M21B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD015M23A	85(3.35)	74(2.91)	141.5(5.57)	130.5(5.14)	113.0(4.45)	10.0(0.39)	Yes	А
VFD015M43B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD015M53A	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	
VFD022M21A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	В
VFD022M23B	100(3.94)	89(3.50)	151(5.94)	140(5.51)	116.5(4.59)	10.5(0.41)	Yes	А
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	
VFD037M43A							Yes	в
VFD037M53A							Yes	
VFD055M23A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	
VFD055M43A							Yes	В
VFD055M53A							Yes	
VFD075M43A	125(4.92)	110(4.33)	220(8.66)	205(8.07)	166.3(6.55)	8.2(0.32)	Yes	в
VFD075M53A							Yes	2

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DELTA

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DELTA ELECTRONICS (JAPAN) INC. DELTA SHIBADAIMON BLDG. 2-1-14 SHIBADAIMON MINATO-KU TOKYO, 105-0012, JAPAN TEL: 81-3-5733-1111 FAX: 81-3-5733-1211

0 Speed Holding function Sleep / Revival function build-in

PID feedback control

Simple position function

Output frequency 0.1~400Hz

Features:

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S[m]

16-bit microprocessor controlled PWM output

Automatic torque boost & slip compensation

8-step speed control & 7-step process control

Adjustable V/F curve & Simple vector control

Automatic adjustment of accel./decel. times

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



Voltage Range:

Delta VFD-M Series

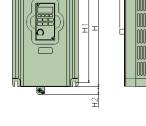
Variable Speed AC Motor Drives

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

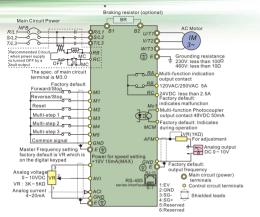
20051021AMD-ME











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 Mode Number VEDITEM 002 004 007 0.2 0.4 Max. Applicable Motor Output (kW) 0.75 Max. Applicable Motor Output (HP) 0.25 0.5 1.0 Rated Output Capacity (kVA) 0.6 1.0 1.6 2.5 Rated Output Current (A) 1.6 4.2 Maximum Output Voltage (V) 3-Phase proportional to twice the Input Voltage Output Frequency (Hz) 0.1~400Hz Carrier Frequency (kHz) 1-15 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 1.5 1.5 1.5 Weight(Kg)

Standard specifications

230V Series 1-Phase/3-Phase

	Model Number VFDM	004	007	015	022	037	055	
Max. Applicable Motor Output (kW)		0.4	0.75	1.5	2.2	3.7	5.5	
	Max. Applicable Motor Output (HP)	0.5	1.0	2.0	3.0	5.0	7.5	
5	Rated Output Capacity (kVA)	1.0	1.9	2.7	3.8	6.5	9.5	
	Rated Output Current (A)		5.0	7.0	10	17	25	
Maximun Output Voltage (V)		3-Phase Proportional to input voltage						
Output Frequency (Hz)		0.1~400Hz						
5	Carrier Frequency (kHz)	1-15						
Rated Input Current (A)		Single / 3-Phase				3-Phase		
5	Rated input current (A)	6.3 / 2.9	11.5 / 7.6	15.7 / 8.8	27 / 12.5	19.6	28	
	Single (3-phase Input Current)	3.2	6.3	9.0	12.5			
Rated Voltage , Frequency		Single / 3-Phase 3-Phase 200-240V , 50 / 60Hz 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

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

575V Series 3-Phase

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

	Control System		SPWM (Sinusoidal Pulse Width Modulation)control (V/F or sensorless vector control)					
	Freq. Setting R	esolution	0.1Hz					
	Output Frequency Resolution		0.1Hz					
	Torque Characteristics		Including the auto-torque, auto-slip compensation; starting torque can be 150% at 5.0					
s	Overload Endurance		150% of rated current for 1 minute					
isti	Skip Frequency		Three zones, settings range 0.1-400Hz					
ter	Accel/Decel Tin	пе	0.1 to 600 seconds (2 independent settings for Accel/Decel Time)					
Control Characteristics	Stall Preventio Frequency Set		20%-200%, Setting of Rated Current Operation frequency 0-60Hz, output 0-100% rated current Start time 0-5 seconds, stop time 0-25 seconds Approx. 20% (up to 125% possible with option braking resistor or braking unit externally mounted)					
Control	DC Injection B	raking						
Ŭ	Braking Torque	•						
	V/F Pattern		Adjustable V/F pattern					
	_	Keypad	Set by 🛦 🔍					
	Frequency	External	Potentiometer-5KΩ/0.5W, 0 to +10VDC; 4 to 20mA, RS-485 interface;					
tics	Setting	Signal	Multi-Function Inputs 0 to 5 (7 steps, Jog, up/down)					
srist	Operation	Keypad	Set by RUN, STOP					
haracte	Setting Signal	External Signal	2 wires / 3 wires (Run, Stop, Forward / Rev,), JOG operation, RS-485 serialinterface (MODBUS)					
Operating Characteristics	Multi-Function Input Signal		Multi-step selection 0 to 7, Jog, accel/decel inhibit, first to forth accel/decel switches, coun PLC operation, external Base Block (NC, NO), auxiliary motor control is invalid, ACI/AV selections, drive reset, UP/DOWN key settings, sink/source selection					
	Multi-Function O	utput 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.					
Ala	am Output Contai	act	1Form C contact or open collector output.					
Operation Functions			AVR, S-Curve, Over-Voltage, Over-Current Stall Prevention, Fault Records, Adjustable Carr Frequency, DC Braking, Momentary Power Loss restart, Auto Tuning, Frequency Limits, Perameter Lock/Reset: Vector Control, Counter, PID Control, PIC, MODBUS Communication, Reverse Inhibition, athormal reset, abnomal re-start, digital frequency output, sleep/revival function, 1 st2nd frequency source selections					
Pri	otective Function	5	Self-testing, Over Voltage, Over Current, Under Voltage, Overload, Overheating, Externa Fault, Electronic thermal, Ground Fault.					
Display Keypads			6-key, 4-digit, 7-segment LED, 4 status LEDs, master frequency, output frequenc Output current, custom units, parameter values for setup, review and faults, RUN, STOP, RESET, FWD/REV					
ş	Protection Lev	el	IP20					
tion	Pollution Degree		2					
ndi	Installation Location		Altitude 1,000m or less, keep from corrosive gas, liquid and dust					
õ	Ambient Temperature		-10°C to 40°C (-10°C to 50°C without blind plate) Non-Condensing and not frozen					
Enviromental Conditions	Storage / Transportation Temperature		-20°C to 60°C					
/iro	Ambient Humi	dity	Below 90% RH (non-condensing)					
Ēŋ	Vibration		9.80665m/s ² (1G) less than 20Hz, 5.88m/s ² (0.6G) at 20 to 50Hz					
	provals		CE 🔍 C					

Standard specifications