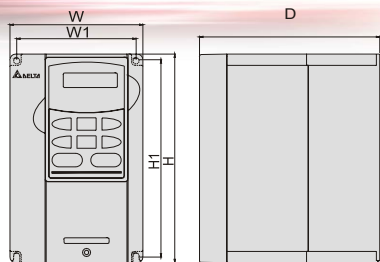


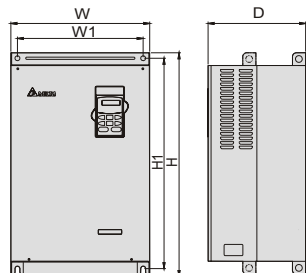
VFD-B

External Dimensions

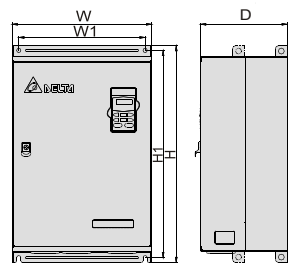
A



B



C



unit:mm

VFD-B

External Dimensions

■ Dimensions

Model	W	W1	H	H1	D	Fan cooled	Fig
VFD007B21A	118(4.65)	108(4.25)	185(7.28)	173(6.81)	160(6.30)	NO	
VFD007B23A	118(4.65)				145(5.71)	NO	
VFD007B43A	118(4.65)				145(5.71)	NO	A
VFD007B53A	118(4.65)				145(5.71)	NO	
VFD015B21A	118(4.65)	108(4.25)	185(7.28)	173(6.81)	160(6.30)	NO	
VFD015B21B	118(4.65)				145(5.71)	Yes	
VFD015B23A	118(4.65)				160(6.30)	NO	
VFD015B23B	118(4.65)				145(5.71)	Yes	A
VFD015B43A	118(4.65)				160(6.30)	NO	
VFD015B53A	118(4.65)				160(6.30)	NO	
VFD022B21A	150(5.91)	135(5.32)	260(10.24)	244.3(9.68)	160.2(6.31)	Yes	
VFD022B23B	118(4.65)	108(4.25)	185(7.28)	173(6.81)	145(5.71)	Yes	
VFD022B43A	118(4.65)	108(4.25)	185(7.28)	173(6.81)	145(5.71)	Yes	A
VFD022B43B	118(4.65)	108(4.25)	185(7.28)	173(6.81)	145(5.71)	Yes	
VFD037B23A	150(5.91)	135(5.32)	260(10.24)	244.3(9.68)	160.2(6.31)	Yes	
VFD037B43A						Yes	
VFD037B53A						Yes	A
VFD055B23A	200(7.88)	185(6.7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD055B43A						Yes	A
VFD055B53A						Yes	
VFD075B23A	200(7.88)	185(6.7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD075B43A						Yes	A
VFD075B53A						Yes	
VFD110B23A	200(7.88)	185(6.7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD110B43A						Yes	A
VFD110B53A						Yes	
VFD150B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD150B43A						Yes	A
VFD150B53A						Yes	
VFD185B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD185B43A						Yes	A
VFD185B53A						Yes	
VFD220B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD220B43A						Yes	A
VFD220B53A						Yes	
VFD300B23A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD300B43A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	B
VFD300B53A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD370B23A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD370B43A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	B
VFD370B53A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD460B43A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	B
VFD460B53A						Yes	
VFD595B43A	425(16.73)	385(15.16)	660(25.98)	631(24.84)	280(11.02)	Yes	
VFD595B53A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	C
VFD750B43A	425(16.73)	385(15.16)	660(25.98)	631(24.84)	280(11.02)	Yes	
VFD750B53A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	C

unit: inch

*We reserve the right of this catalogue contained information change without prior notice.

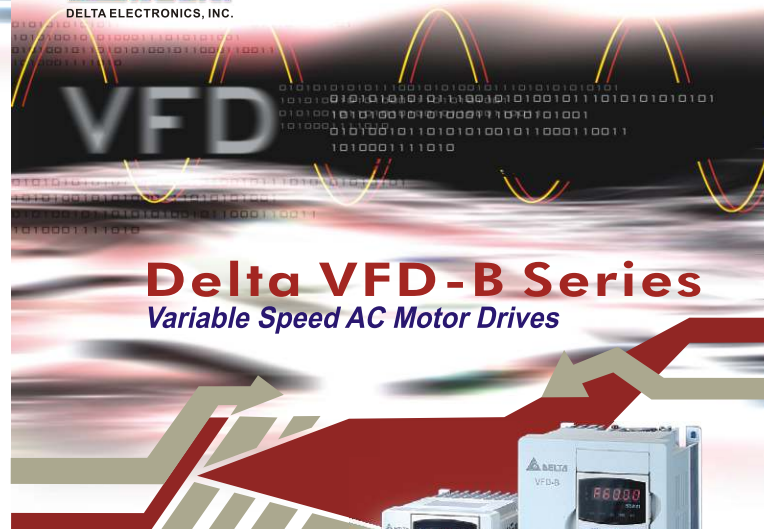


ASIA
DELTA ELECTRONICS, INC.
Taoyuan Plant
31-1, SHIEN PAN ROAD, KUEI SAN
INDUSTRIAL ZONE, TAOYUAN SHIEN,
TAIWAN, R.O.C.
TEL: 886-3-362-6301
FAX: 886-3-362-7267
www.delta.com.tw/industrialautomation

NORTH/SOUTH AMERICA
DELTA PRODUCTS CORPORATION
Sales Office
P.O. BOX 12173
5101 DAVIS DRIVE
RESEARCH TRIANGLE PARK,
NC 27709, U.S.A.
TEL: 1-919-767-3913
FAX: 1-919-767-3969

EUROPE
DELTRONICS (NETHERLANDS) B.V.
DE WITBOOG 15
NL-5652 AG EINDHOVEN
THE NETHERLANDS
TEL: 31-40 259-2650
FAX: 31-40 259-2851

DELTA ELECTRONICS (JAPAN) INC.
DELTA SHIBADAIMON BLDG.
2-1-14 SHIBADAIMON, MINATO-KU,
TOKYO, 105-0012, JAPAN
TEL: 81-3-6733-1111
FAX: 81-3-6733-1211



Features:

- ▶ 16-bit microprocessor controlled PWM output
- ▶ Automatic torque boost & slip compensation
- ▶ Output frequency 0.1~400Hz
- ▶ 16-step speed control & 15-step preset speed
- ▶ PID feedback control & PG feedback control
- ▶ 4 accel./decel. times & 2 S-curve selections
- ▶ Pump control & automatic energy-saving
- ▶ Process follower - 10~10VDC, 0~10VDC, 4~20mA
- ▶ MODBUS communication RS-485 (Baud rate 38400)
- ▶ Coast or ramp to stop
- ▶ Adjustable V/F curve & automatic voltage regulation
- ▶ Automatic adjustment of accel./decel. time
- ▶ Auto tuning & sensorless vector control
- ▶ Sleep / Revival Function
- ▶ Master / Auxiliary and 1st/2nd frequency source selectable

Voltage Range:

- 1 Phase 230V Series : 0.75~2.2KW (1~3HP)
- 3 Phase 230V Series : 0.75~37KW (1~50HP)
- 3 Phase 460V Series : 0.75~75KW (1~100HP)
- 3 Phase 575V Series : 0.75~75KW (1~100HP)

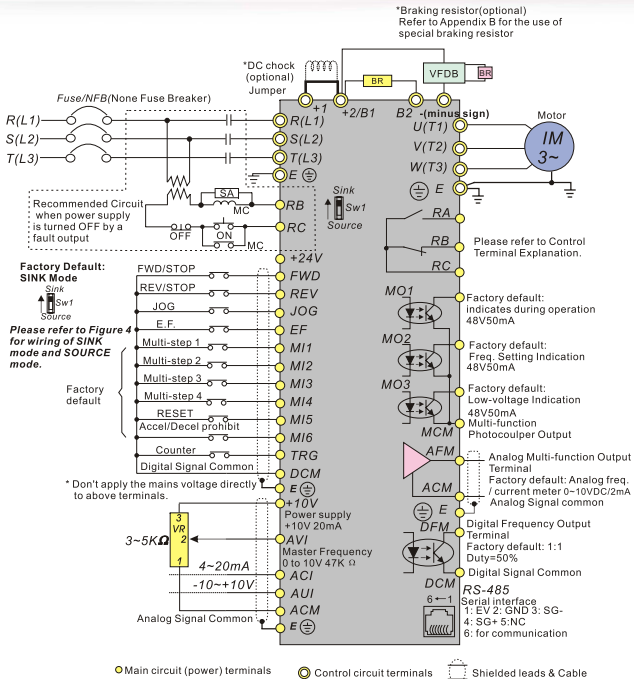


VFD-B series have been approved by CE and UL

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VFD-B

Standard wiring diagram



* Three phase input power may apply to single phase drives

* For the single phase application, the AC input line can be connected to any two of the three input terminals R, S, T.

VFD-B

Standard specifications

230V Series 1-Phase/3-Phase

Model Number	VFD-□□□□B	007	015	022	037	055	075	110	150	185	220	300	370
Max. Applicable Motor Output (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	
Max. Applicable Motor Output (HP)	1.0	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	
Rated Output Capacity (kVA)	1.9	2.5	4.2	6.5	9.5	12.5	18.3	24.7	28.6	34.3	45.7	55	
Rated Output Current (A)	5.0	7.0	11	17	25	33	49	65	75	90	120	145	
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)	Single/3-Phase												
	11/9	15/3	22/5	37/7	55/7	75/8	115/14	150/20	185/25	220/30	300/40	370/50	
Single (3-phase Input Current)	7.0	9.4	14.0	20.6	26	34	50	60	75	90	110	142	
Rated Voltage - Frequency	Single/3-phase 200-240V, 50/60Hz												
Voltage Tolerance	±10%(180~264V)												
Frequency Tolerance	±5%(47~63Hz)												
Cooling Method	Natural Fan Cooled												
Weight (Kg)	2.7	3.2	4.5	6.8	8	10	13	13	13	13	36	36	

460V Series 3-Phase

Model Number	VFD-□□□□B	007	015	022	037	055	075	110	150	185	220	300	370	450	550	750
Max. Applicable Motor Output (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	
Max. Applicable Motor Output (HP)	1.0	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	60	75	100	
Rated Output Capacity (kVA)	2.3	3.2	4.2	6.5	9.9	13.7	18.3	24.4	28.9	34.3	45.7	55.6	69.3	84	114	
Rated Output Current (A)	2.7	4.2	5.5	8.5	13	18	24	32	38	45	60	73	91	110	150	
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															
	3.2	4.3	5.9	11.2	14	19	25	32	39	49	60	63	90	130	160	
Rated Voltage - Frequency	3-phase 380-480V, 50/60Hz															
Voltage Tolerance	±10%(342~528V)															
Frequency Tolerance	±5%(47~63Hz)															
Cooling Method	Natural Fan Cooled															
Weight (Kg)	2.7	3.2	4.5	2.7	3.2	4.5	6.8	8	10	13	13	13	13	36	36	

575V Series 3-Phase

Model Number	VFD-□□□□B	007	015	022	037	055	075	110	150	185	220	300	370	450	550	750
Max. Applicable Motor Output (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	
Max. Applicable Motor Output (HP)	1.0	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	60	75	100	
Rated Output Capacity (kVA)	1.7	3.5	4.5	7.5	10	13.4	18.9	21.9	26.9	33.9	44.8	51.8	61.7	79.7	99.6	
Rated Output Current (A)	1.7	3.5	4.5	7.5	10	13.5	19	22	27	34	41	52	62	80	100	
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															
	2.0	3.6	4.9	9.9	10.8	14.3	19.8	22	27.7	37	41	52	62	95	117	
Rated Voltage - Frequency	3-phase 500-600V, 50/60Hz															
Voltage Tolerance	-15%+10% (425~660V)															
Frequency Tolerance	±5%(47~63Hz)															
Cooling Method	Natural Fan Cooled															
Weight (Kg)	2.7	3.2	4.5	6.8	8	10	13	13	13	13	36	36	36	50	50	

Control System	SPWM (Sinusoidal Pulse Width Modulation) control (V/F or sensorless vector control)	
	Freq. Setting Resolution	0.01Hz
	Output Frequency Resolution	0.01Hz
	Torque Characteristics	Including the auto-torque, auto-slip compensation; starting torque can be 150% at 1.0Hz
Torque Characteristics	Overload Endurance	150% of rated current for 1 minute
	Skip Frequency	Three zones, settings range 0.1~400Hz
	Accel/Decel Time	0.1 to 3600 seconds (4 independent settings for Accel/Decel Time)
	Stall Prevention Level Frequency Setting	20%~250%, Setting of Rated Current
DC Injection Braking	Operation frequency 0~400Hz, output 0~100% rated current Start time 0~60 seconds, stop time 0~60 seconds	
	Braking Torque	Approx. 20% (up to 125% possible with option braking resistor or braking unit externally mounted, 1-15HP braking transistor built-in)
V/F Pattern	Adjustable V/F pattern	
Frequency Setting	Keypad	Set by Δ ∇
	External Signal	Potentiometer-5K Ω /0.5W, 0 to +10VDC; -10 to +10VDC, 4 to 20mA, RS-485 interface; Multi-Function Inputs 1 to 6 (15 steps, Jog, up/down)
	Keypad	Set by RUN, STOP and JOG
	External Signal	2 wires / 3 wires (Fwd, Rev, EF), JOG operation, RS-485 serial interface (MODBUS)
Multi-Function Input Signal	Multi-step selection 0 to 15, Jog, accel/decel inhibit, first to fourth 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	
	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	
Multi-Function Output Indication	Analog frequency/current signal output. 1Form C contact or open collector output.	
Alarm Output Contact	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, Fan & Pump Control, PLC, MODBUS Communication, Reverse Inhibition, PG feedback control, abnormal reset, abnormal re-start, digital frequency output, sleep/revival function, master/auxiliary frequency, 1 st/2nd frequency source selections	
Operation Functions	Self-testing, Over Voltage, Over Current, Under Voltage, Overload, Overheating, External Fault, Electronic thermal, Ground Fault.	
	8-key, 5-digit, 7-segment LED, 8 status LEDs, master frequency, output frequency, Output current, custom units, parameter values for setup, review and faults, RUN, STOP, RESET, FWD/REV, JOG	
Protective Functions	Protection Level	IP20 ; NEMA1
	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	
	Below 90% RH (non-condensing)	
Ambient Humidity	9.80665m/s ² (1G) less than 20Hz, 5.88m/s ² (0.6G) at 20 to 50Hz	
Vibration		
Approvals	CE, UL, VDE	