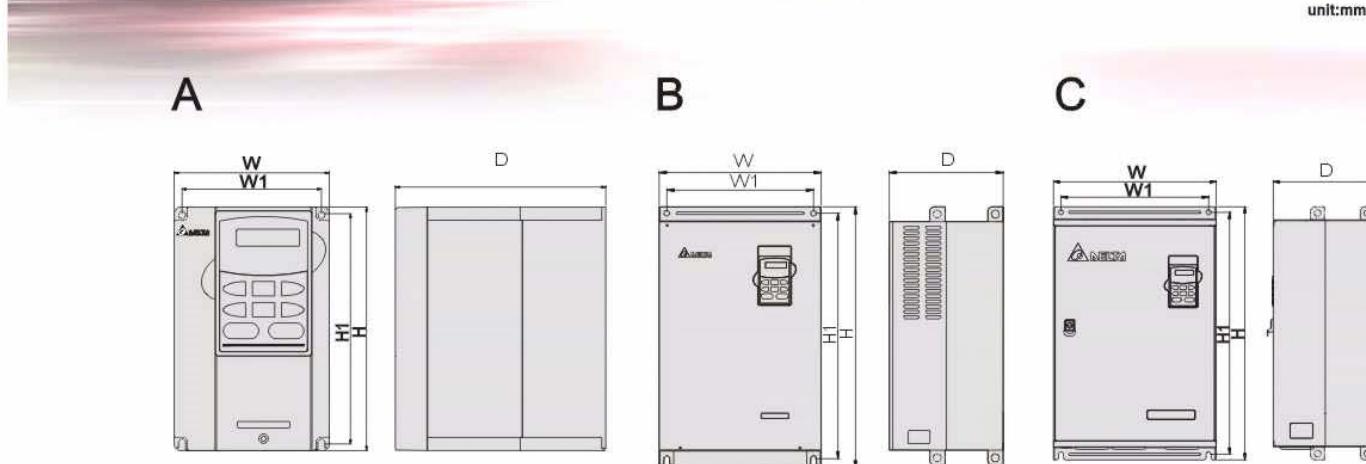


VFD-B

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	A
VFD007B43A	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	A
VFD015B23B	118(4.65)				145(5.71)	Yes	
VFD015B43A	118(4.65)				160(6.30)	NO	
VFD022B21A	150(5.91)	135(5.32)	280(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	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	A
VFD055B23A	200(7.88)	185.6(7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD055B43A						Yes	A
VFD075B23A	200(7.88)	185.6(7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD075B43A						Yes	A
VFD110B23A	200(7.88)	185.6(7.31)	323(12.72)	303(11.93)	183.2(7.22)	Yes	
VFD110B43A						Yes	A
VFD150B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD150B43A						Yes	A
VFD185B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD185B43A						Yes	A
VFD220B23A	250(9.84)	226(8.90)	430.8(15.90)	384(15.12)	205.4(8.08)	Yes	
VFD220B43A						Yes	A
VFD300B23A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD300B43A	370(14.57)	335(13.19)	589(23.19)	560(22.55)	260(10.24)	Yes	B
VFD370B23A	370(14.57)	335(13.19)	595(23.43)	560(22.55)	260(10.24)	Yes	
VFD370B43A	370(14.57)	335(13.19)	589(23.19)	560(22.55)	260(10.24)	Yes	B
VFD450B43A	370(14.57)	335(13.19)	589(23.19)	560(22.55)	260(10.24)	Yes	B
VFD550B43A	425(16.73)	385(15.16)	660(25.98)	631(24.84)	280(11.02)	Yes	C
VFD750B43A	425(16.73)	385(15.16)	660(25.98)	631(24.84)	280(11.02)	Yes	C

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Delta VFD-B Series

Variable Speed AC Motor Drives



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:

- #### **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)



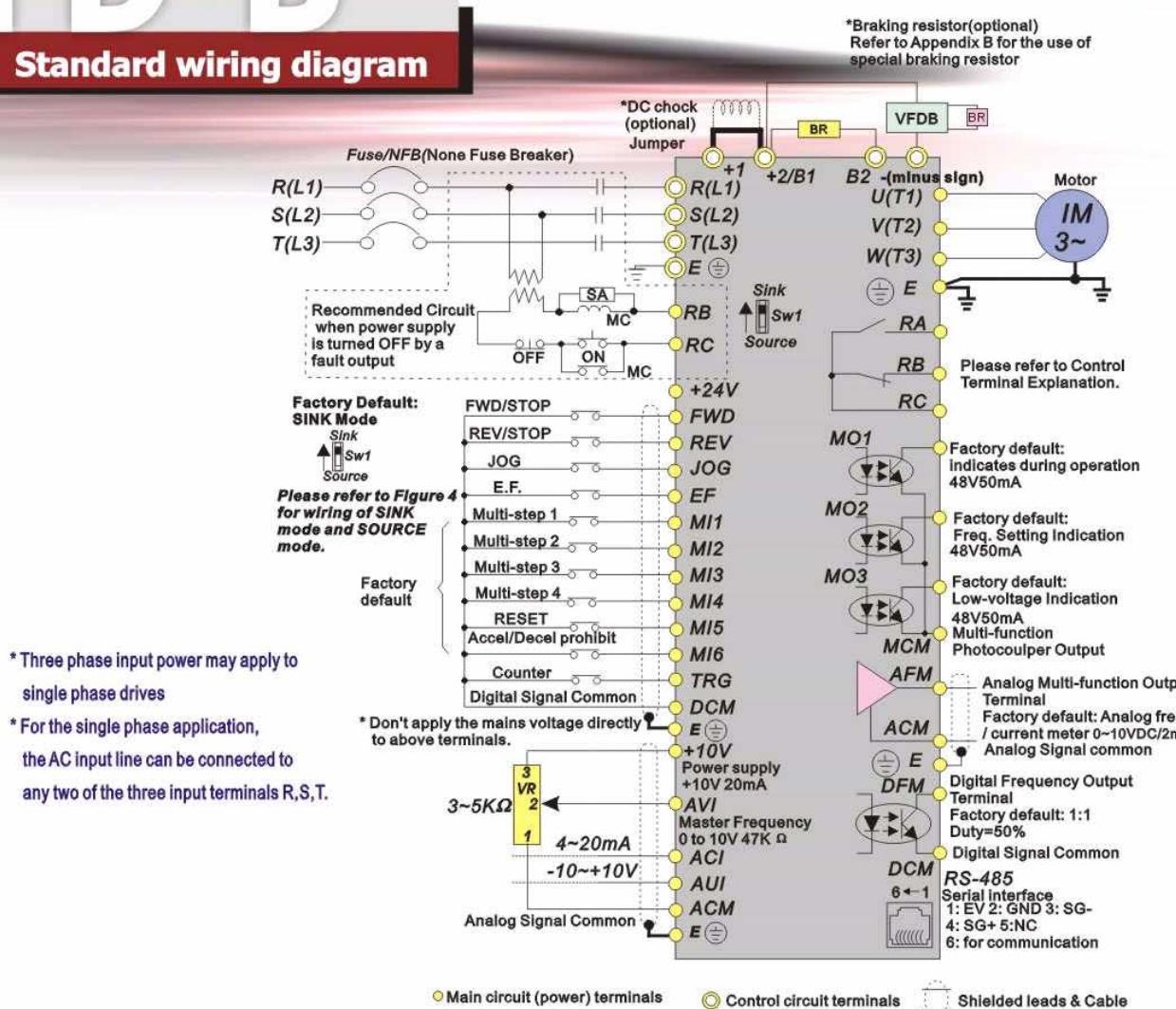
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VFD-B

Standard wiring diagram



Standard specifications

230V Series 1-Phase/3-Phase

	Model VFD□□□B											
Output	Max. Applicable Motor Output (kW)											
	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Input	Max. Applicable Motor Output (HP)											
	1	2	3	5	7.5	10	15	20	25	30	40	50
Rated 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 Current (A)												
5.0 7.0 11 17 25 33 49 65 75 90 120 145												
Output Frequency Range												
0.1~400Hz												
Overload Endurance												
150% of rated current for 60 seconds												
Max. Output Voltage												
3-Phase Proportional to input voltage												
Phase • Voltage • Hz												
1/3-Phase 3-Phase • 200~240Vac • 50/60Hz												
Voltage • Frequency Tolerance												
Voltage: ± 10% • Frequency: ± 5%												
Input Current (A)												
11.9/5.7 15.3/7.6 22/15.5 20.6 26 34 50 60 75 90 110 142												
Single (3-phase Input Current)												
7.0 9.4 14.0 -												
Cooling Method												
Natural Fan Cooled												
Weight (Kg)												
2.7 3.2 4.5 6.8 8 10 13 13 13 36 36												

VFD-B

Standard specifications

460V Series 3-Phase

	Model VFD□□□B											
Output	Max. Applicable Motor Output (kW)											
	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37
Input	Max. Applicable Motor Output (HP)											
	1	2	3	5	7.5	10	15	20	25	30	40	50
Rated 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 Current (A)												
2.7 4.2 5.5 8.5 13 18 24 32 38 45 60 73 91 110 150												
Output Frequency Range												
0.1~400Hz												
Overload Endurance												
150% of rated current for 60 seconds												
Max. Output Voltage												
Proportional to input voltage												
Phase • Voltage • Hz												
3-Phase • 380~480Vac • 50/60Hz												
Voltage • Frequency Tolerance												
Voltage: ± 10% • Frequency: ± 5%												

	Control System											
Control specification	SPWM control (V/F or sensorless vector control)											
0.10~400Hz	0.01Hz	0.01Hz	Adjustable between 1 and 15 kHz	Auto torque, auto slip compensation, start torque: 150% at 1Hz	Three zones, settings range 0.1~400Hz	0.1 to 3600 seconds (4 independent settings for accel./decel. time)	Set current limit from 20%-250%	Operation frequency 0~400Hz, output 0~100% rated current	Start time 0~25 seconds, stop time 0~25 seconds	Approx. 20% (up to 125% possible with option braking resistor or braking unit externally mounted, 1~15HP braking transistor built-in)	Adjustable V/F pattern	

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