

Delta Vector Control Drive C2000 Plus Series

The C2000 Plus Series features precise speed, torque and position control functions that are suitable for both sensor and sensorless types of synchronous and asynchronous motors.

With higher overload capacity, the power range of C2000 Plus Series 460V models reach up to 560 kW, providing the best performance and stability for a variety of heavy duty and constant torque applications, such as production, processing, food industry, chemical industry, metal processing, rubber and plastics, municipal & infrastructure, and other industries.

For advanced manufacturing, the C2000 Plus Series is equipped with built-in PLC functions and supports various protocols for the ultimate in system flexibility and fast data exchange.

As your best choice for highly efficient solution, the C2000 Plus Series is the power to drive you to reach the Automation for a Changing World!



Advanced Drive Controls

High Performance

1. For both synchronous and asynchronous motors
2. Dual rating design (heavy duty/super heavy duty)
3. Speed/torque/position control mode
4. High bandwidth control

Versatile Drive Controls

1. Built-in safe stop function
2. Built-in PLC function
3. Built-in brake unit
4. Supports various network protocols
5. Position control

Environmental Adaptability

1. 50°C operating temperature
2. Built-in DC reactor
3. Coated circuit boards
4. Built-in EMC filter
5. International safety standard (CE/UL/cUL)

*Note: Please refer to the Product Specification

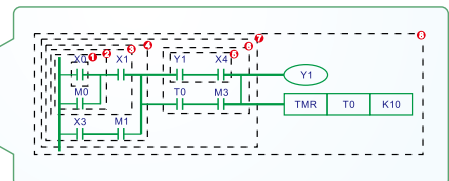
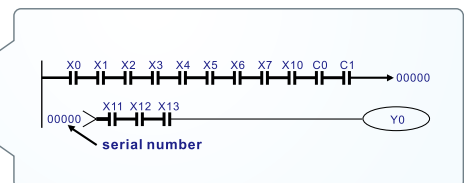
Modular Design

1. Hot pluggable LCD keypad
2. I/O extension cards
3. Various PG (encoder) feedback cards
4. Network cards for fieldbus modules
5. Removable fan














Intelligent PLC Functions

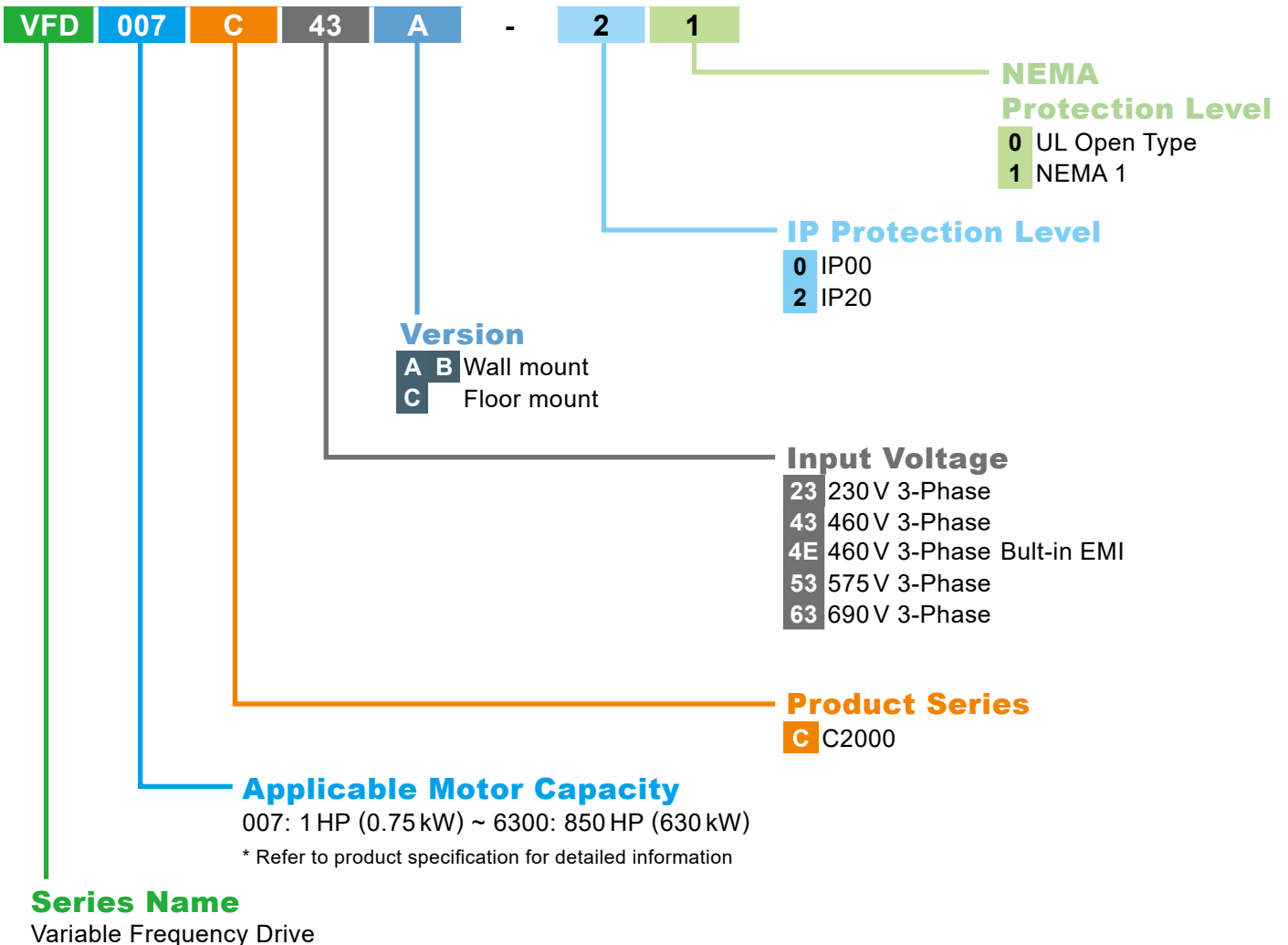
- Built-in 10k steps capacity of PLC functions. Distributed control and independent operation are easily achieved via network connection
- CANopen Master protocol and PLC functions provide synchronous control and fast data exchange



Examples for Different Loads

Rated Load	Light Duty (LD) / Normal Load (ND)	Heavy Duty (HD)	Super Heavy Duty (SHD)		
Parameters	Parameter 00-16 =2 (LD) or 0 (ND)	Parameter 00-16 = 0	Parameter 00-16 = 1		
Overload Capacity	120% / 60 secs., 160% / 3 secs.	150% / 60 secs., 180% / 3 secs.	150% / 60 secs., 200% / 3 secs.		
Applications	 HVAC  Fan  Pump	 Milling Machine  Bending Machine	 Conveyor System  Extruding Machine  Machine Tool	 Crane/Hoist  Pressing Machine	
Carrier Wave Frequency	Parameter 00-17 for adjustment				
	Carrier Wave Frequency	Electrical Noise	Noise & Leakage Current	Heat Dissipation	Current Waveform
	2 kHz 15 kHz	Loud Low	Low Loud Noise/ Large Current	Low High	

Model Name



460V _{AC} , 3Ø, Motor Power Range 0.7 ~ 560 kW for Heavy Duty Applications											
Frame	Model Name	Output						Input		Power Supply	
	VFD__C4_ -00 / -21	Heavy Duty (HD) ¹¹			Super Heavy Duty (SHD)			Heavy Duty (HD)	Super Heavy Duty (SHD)	Heavy Duty (HD)	Super Heavy Duty (SHD)
		Motor Power Range (kW)	Motor Power Range (HP)	Rated Output Current (A) ¹⁵	Motor Power Range (kW)	Motor Power Range (HP)	Rated Output Current (A) ¹⁵	Rated Input Current (A) ¹²	Rated Input Current (A)	Power Supply Capacity (kVA) ¹³	Power Supply Capacity (kVA)
A	007	0.75	1	3	0.4	0.5	1.7	4.3	3.5	3.6	2.9
	015	1.5	2	4	0.75	1	3	5.9	4.3	4.9	3.6
	022	2.2	3	6	1.5	2	4	8.7	5.9	7.2	4.9
	037	3.7	5	9	2.2	3	6	14	8.7	11.6	7.2
	040	4.0	5	10.5	3.7	5	9	15.5	14	12.9	11.6
	055	5.5	7.5	12	4.0	5	10.5	17	15.5	14.1	12.9
B	075	7.5	10	18	5.5	7.5	12	20	17	16.6	14.1
	110	11	15	24	7.5	10	18	26	20	21.6	16.6
	150	15	20	32	11	15	24	35	26	29.1	21.6
C	185	18.5	25	38	15	20	32	40	35	33.3	29.1
	220	22	30	45	18.5	25	38	47	40	39.1	33.3
	300	30	40	60	22	30	45	63	47	52.4	39.1
D0	370	37	50	73	30	40	60	74	63	61.5	52.4
	450	45	60	91	37	50	73	101	74	84.0	61.5
D	550	55	75	110	45	60	91	114	101	94.8	84.0
	750	75	100	150	55	75	110	157	114	130.5	94.8
E	900	90	125	180	75	100	150	167	157	138.8	130.5
	1100	110	150	220	90	125	180	207	167	172.1	138.8
F	1320	132	175	260	110	150	220	240	207	199.5	172.1
	1600	160	215	310	132	175	260	300	240	249.4	199.5
G	1850	185	250	370	160	215	310	380	300	315.9	249.4
	2000 ¹⁴	200	270	395	160	215	310	395	300	328.4	249.4
	2200	220	300	460	185	250	370	400	380	332.5	315.9
	2500 ¹⁴	250	340	481	200	270	395	447	390	371.6	324.2
H	2800	280	375	550	220	300	460	494	400	410.7	332.5
	3150	315	420	616	280	375	550	555	494	461.4	410.7
	3550	355	475	683	315	425	616	625	555	519.6	461.4
	4000 ¹⁴	400	530	770	355	475	683	770	590	640.1	490.5
	4500	450	600	866	355	475	683	866	625	720.0	519.6
	5000	500	675	930	450	600	866	930	866	773.2	720.0
	5600	560	750	1094	500	675	930	1094	930	909.5	773.2
Heavy Duty (HD)		At 150% of the rated output current, continuous operation lasts up to 1 min. in every 5 mins. At 180% of the rated output current, continuous operation lasts up to 3 secs. in every 30 secs.									
Super Heavy Duty (SHD)		At 150% of the rated output current, continuous operation lasts up to 1 min. in every 5 mins. At 200% of the rated output current, continuous operation lasts up to 3 secs. in every 30 secs.									
Rated Input Voltage		3Ø, 380 ~ 480 V _{AC} (-15% ~ +10%)									
Rated Input Frequency		50/60 Hz									
Permissible Power Frequency Variation		±5% (47 ~ 63 Hz)									
Displacement Power Factor (cosφ)		> 0.98									
Carrier Wave Frequency¹⁶		Please see Note 6 below									
Efficiency		97.8% (Frames A, B, C, D0, D); 98.2% (Frames E, F, G, H)									
Cooling Method		Forced air-cooling (The models 007 and 015 are for natural cooling)									
Braking Chopper		Built-in for frames A, B, C; optional for frames D0, D, E, F, G, H									
DC Reactor		Optional for frames A, B, C; built-in for frames D0, D, E, F, G, H									
EMC Filter		Built-in for VFDxxxC4EA-21 frames A, B, C; optional for other frames									
EMC-COP01		Built-in for VFDxxxC4EA-21 frames A, B, C and VFDxxxC43A-21 frames D0, D, E, F, G, H; optional for other frames									

Notes:

1. Factory rated load (parameter 00-16) is heavy duty by default.
2. Rated input current may vary with the power supply impedance, power adapter, input impedance, DC reactor and the actual loading.
3. Power supply capacity is calculated based on the rated input current and 480 V_{AC} to select an electrical transformer capacity.
4. The model is market ready. Please contact us if you need it. For SHD models, please note the rated output current value.
5. For applications at high altitude, high ambient temperature, or with high carrier wave and advanced motor vector control. Refer to the user manual for corresponding derating curves.
6. Refer to the user manual for the default carrier wave frequency, adjustable range and derating curves.


General Specifications

Item	Specifications
Control Characteristics	Control Mode ¹ 230V_{AC}/460V_{AC} models: Available modes below via parameter settings <ul style="list-style-type: none"> • IMVF (Induction Motor V/F control) • IMVF + PG (Induction Motor, V/F control with encoder) • IM/PM SVC (Inductor Motor / Permanent-magnet Synchronous Motor, space vector control) • IMFOC + PG (Induction Motor, field-oriented control with encoder) • PMFOC + PG (Permanent-magnet Synchronous Motor, field-oriented control with encoder) • IMFOC Sensorless (Induction Motor, sensorless field-oriented control) • PM Sensorless (Permanent-magnet Synchronous Motor, sensorless field-oriented control) • IPM Sensorless (Interior Permanent Synchronous Motor, sensorless vector control) • SynRM Sensorless (Synchronous Reluctance Motor, sensorless field-oriented control) • IM TQCPG (Induction Motor, torque control with encoder) • PM TQCPG (Permanent-magnet Synchronous Motor, torque control with encoder) • IM TQC Sensorless (Induction Motor, sensorless torque control) • SynRM TQC Sensorless (Synchronous Reluctance Motor, sensorless torque control)
	575V_{AC}/690V_{AC} models: Available modes below via parameter settings <ul style="list-style-type: none"> • IM V/F (Induction Motor, V/F control) • IMVF + PG (Induction Motor, V/F control with encoder) • IM/PM SVC (Induction Motor / Permanent-magnet Synchronous Motor, space vector control)
	Max. Output Frequency ² 0~599Hz
	Frequency Output Accuracy Digital command: $\pm 0.01\%$, $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$; Analog command: $\pm 0.1\%$, $25 \pm 10^{\circ}\text{C}$
	Output Frequency Resolution (Input Frequency Resolution) Digital command: 0.01 Hz, Analog command: 0.05 * max. output frequency (Parameter 01-00), 11 bit plus sign
	Speed Control Range (Speed Control Ratio) ³ <ul style="list-style-type: none"> • IMVF, IMVF + PG, IMSVC: 1:50 • IMFOC Sensorless: 1:100 • IMFOC + PG: 1:1000 • PMSVC: 1:20 • PM Sensorless: 1:50 • IPM Sensorless: 1:100 • PMFOC + PG: 1:1000
	Starting Torque <ul style="list-style-type: none"> • IMVF, IMVF+PG, IMSVC: 150%/3Hz • IMFOC Sensorless: 200%/0.5Hz • IMFOC + PG: 200%/0Hz • PMSVC: 100%/(motor rated frequency/20) • PM Sensorless: 100%/(motor rated frequency/50) • IPM Sensorless: 100%/0Hz • PMFOC + PG: 200%/0Hz
	Torque Accuracy ⁴ TQC + PG: $\pm 5\%$; TQC Sensorless: $\pm 15\%$
Torque Limit 230 V_{AC}/460 V_{AC} models: Heavy Duty: up to 180% torque current; Super Heavy Duty: up to 220% torque current 575 V_{AC}/690 V_{AC} models: Up to 200% torque current	
Protection Characteristics	Out Over-current Protection 230 V_{AC}/460 V_{AC} models: Over-current protection for 240% of rated current (Heavy duty) 575 V_{AC}/690 V_{AC} models: Over-current protection for 240% of rated current (Normal duty) When the over-current protection function is triggered, the C2000 Plus will stop and send out error codes.
	Output Current Clamp 230 V_{AC}/460 V_{AC} models: Heavy duty/Super heavy duty: 190~195% rated current 575 V_{AC}/690 V_{AC} models: (except 6300 models) Light duty: 125~145% rated current; Normal duty: 170~175% rated current; Heavy duty: 200~250% rated current VFD6300C63B-00/21: Light duty/Normal duty/Heavy duty: 170~175% rated current The C2000 Plus will recover automatically and the current clamp will be disabled when output current resumes.
	Over-voltage (DC) Protection The C2000 Plus will shut down under below conditions: 230 V_{AC} models: DC bus over 410 V; 460 V_{AC} models: DC bus over 820 V; 575 V_{AC}/690 V_{AC} models: DC bus over 1189 V
	Grounding Leakage Current Protection ⁵ The leakage current is 60% higher than the rated current
	Output Low / Under Current Fault ⁵ Low current detection in open circuits
	Short-circuit Current Rating (SCCR) Per UL508C, the C2000 Plus with a fuse is suitable for power systems with less than 100kA short-circuit capacity
	Motor Overheat Protection ⁵ Supports electronic thermal relay protection, PTC, KTY84-130 and PT100
	Drive Overheat Protection Built-in temperature sensor (IGBT refer to oH1, Heatsink refer to oH2)
	Fan Control 230 V_{AC} models: VFD150C2xx-xx: PMW control; VFD110C2xx-xx and below: On / Off switch control 460 V_{AC} models: VFD185C4xx-xx: PMW control; VFD150C4xx-xx and below: On / Off switch control 575 V_{AC}/690 V_{AC} models: PWM control
Certification CE (Low Voltage Directive 2014/35/EU, EN61800-5-1; EMC Directive 2014/35/EU, EN61800-3) UL508C, cUL CAN/CSA C22.2 No.14-13 · No.274⁶, Plenum rated RCM · KC⁷, EAC⁷, SEMI F47-0706, GB12668.3 WEEE 2012/19/EU, RoHS 2011/95/EU⁸ ISO 9001 (Quality assurance system) ISO 14001 (Environmental system)	
Safety Standards Safe Torque Off (STO, EN/IEC61800-5-2) TUV Rheinland Certified IEC62061/IEC61508, SIL CL2 EN ISO13849-1, Cat.3/PL d	

Note:


1. 230 V_{AC} / 460 V_{AC} models: Synchronous reluctance control mode is supported for the firmware V3.06 or later.
575 V_{AC} / 690 V_{AC} models: Magnetic vector control mode is supported for the firmware V2.06 or later.
2. The max. output frequency will vary with carrier waves and control modes. Refer to the parameters 01-00 and 06-55 in the user manual for details.
3. The rated speed control ratio is for heavy duty applications. The speed control varies with the environment, applications, motor types or encoders.
4. In the torque control mode.
5. Adjust protection levels by parameter settings.
6. No UL certification for VFD4500C43x-xx, VFD5000C43x-xx, VFD5600C43x-xx models.
7. For 230 V_{AC} / 460 V_{AC} models only
8. Obtaining the certificate of RoHS 2015/863/EU compliance

Operation Temperature & Protection Level

Model	Frame	Top Cover	Conduit Box	Protection Level	Operation Temperature
VFDxxxCxxx-21	Frame A~C 230V: 0.75~22kW 460V: 0.75~30kW 575V: 1.5~15kW 690V: 18.5~37kW	Remove top cover	Standard conduit plate	IP20/UL Open Type	-10°C~50°C
		Standard with top cover		IP20/UL Type1 / NEMA1	-10°C~40°C
VFDxxxCxxx-21	Frame D0~H 230V: 22kW and above 460V: 37kW and above 690V: 45kW and above	N / A	Standard conduit box	IP20/UL Type1 / NEMA1	-10°C~40°C
VFDxxxCxxx-00	Frame D0~H 230V: 22kW and above 460V: 37kW and above 690V: 45kW and above	N / A	No conduit box	 Degrees of protection: IP20 / IP00 for the circled area	-10°C~50°C

Operating Environment, Storage & Transportation

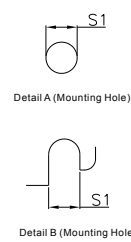
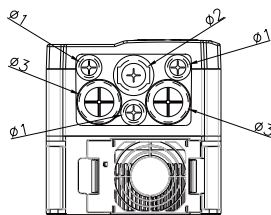
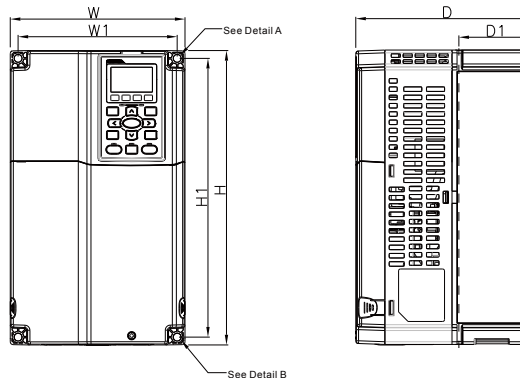
DO NOT expose the AC motor drive to harsh environments, such as dust, direct sunlight, corrosive/flammable gasses, humidity, liquid or vibrations. The salts in the air must be less than 0.01 mg/cm² per year.

Environment	Installation Location	IEC60364-1 / IEC60664-1 Pollution degree 2, indoor use only	
	Surrounding Temperature (°C)	Storage / Transportation	-25 ~ 70
		Only allowed in non-condensation, non-frost, non-conductive environment	
	Rated Humidity	Operation / Storage / Transportation	Max. 95%
		Only allowed in non-condensation, non-frost, non-conductive environment	
	Air Pressure (kPa)	Operation / Storage	86 ~ 106
		Transportation	70 ~ 106
	Pollution Level	IEC60721-3-3	
		Operation	Class 3C3; Class 3S2
		Storage	Class 1C2; Class 1S2
Transportation		Class 2C2; Class 2S2	
If the AC motor drive is to be used under harsh environment with high level of contamination (e.g. dew, water, dust), make sure it is installed in an environment qualified for IP54 such as in a cabinet			
Altitude	Operation	If the AC motor drive is installed at an altitude 0 ~ 1000 m, follow normal operation restriction. If it is installed at altitude 1000 ~ 2000 m, decrease 1% of rated current or lower 0.5 °C of temperature for every 100 m increase in altitude. Maximum altitude for Corner Grounded TN system is 2000m, for application over 2000m please contact Delta for more details	
	Storage / Transportation	ISTA procedure 1A (according to weight) IEC60068-2-31	
Package Drop	Storage / Transportation	ISTA procedure 1A (according to weight) IEC60068-2-31	
Vibration	1.0 mm, peak to peak value range from 2 Hz to 13.2 Hz; 0.7 G ~ 1.0 G range from 13.2 Hz to 55 Hz; 1.0 G range from 55 Hz to 512 Hz. Comply with IEC 60068-2-6.		
Impact	IEC / EN 60068-2-27		
Operation Position	Max. allowed offset angle ±10° (under normal installation position)		

Frame B

Model	
VFD055C23A-21	VFD055C53A-21
VFD075C23A-21	VFD075C53A-21
VFD110C23A-21	VFD110C53A-21
VFD075C43A-21	VFD150C53A-21
VFD110C43A-21	
VFD150C43A-21	
VFD075C4EA-21	
VFD110C4EA-21	
VFD150C4EA-21	

Weight
 230 V_{AC} Models: 5.4 ± 1 Kg
 460 V_{AC} Models: 5.4 ± 1 Kg
 575 V_{AC} Models: 4.8 ± 1 Kg



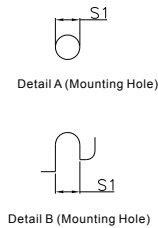
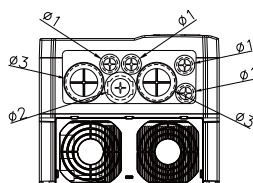
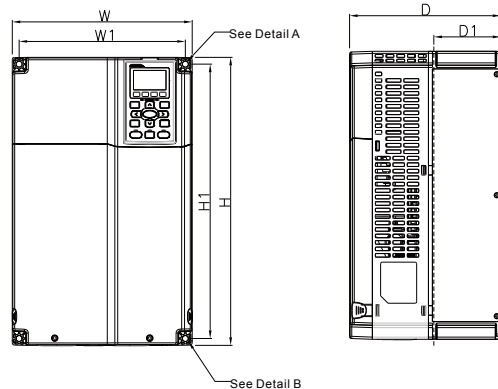
Frame	W	H	D	W1	H1	D1*	S1	Ø1	Ø2	Ø3	
B	mm	190.0	320.0	190.0	173.0	303.0	77.9	8.5	22.2	34.0	28.0
	inch	7.48	12.60	7.48	6.81	11.93	3.07	0.33	0.87	1.34	1.10

*D1: Flange mount.

Frame C

Model	
VFD150C23A-21	VFD185C63B-21
VFD185C23A-21	VFD220C63B-21
VFD220C23A-21	VFD300C63B-21
VFD185C43A-21	VFD370C63B-21
VFD220C43A-21	
VFD300C43A-21	
VFD185C4EA-21	
VFD220C4EA-21	
VFD300C4EA-21	

Weight
 230 V_{AC} Models: 9.8 ± 1.5 Kg
 460 V_{AC} Models: 9.8 ± 1.5 Kg
 575 V_{AC} Models: 10 ± 1.5 Kg



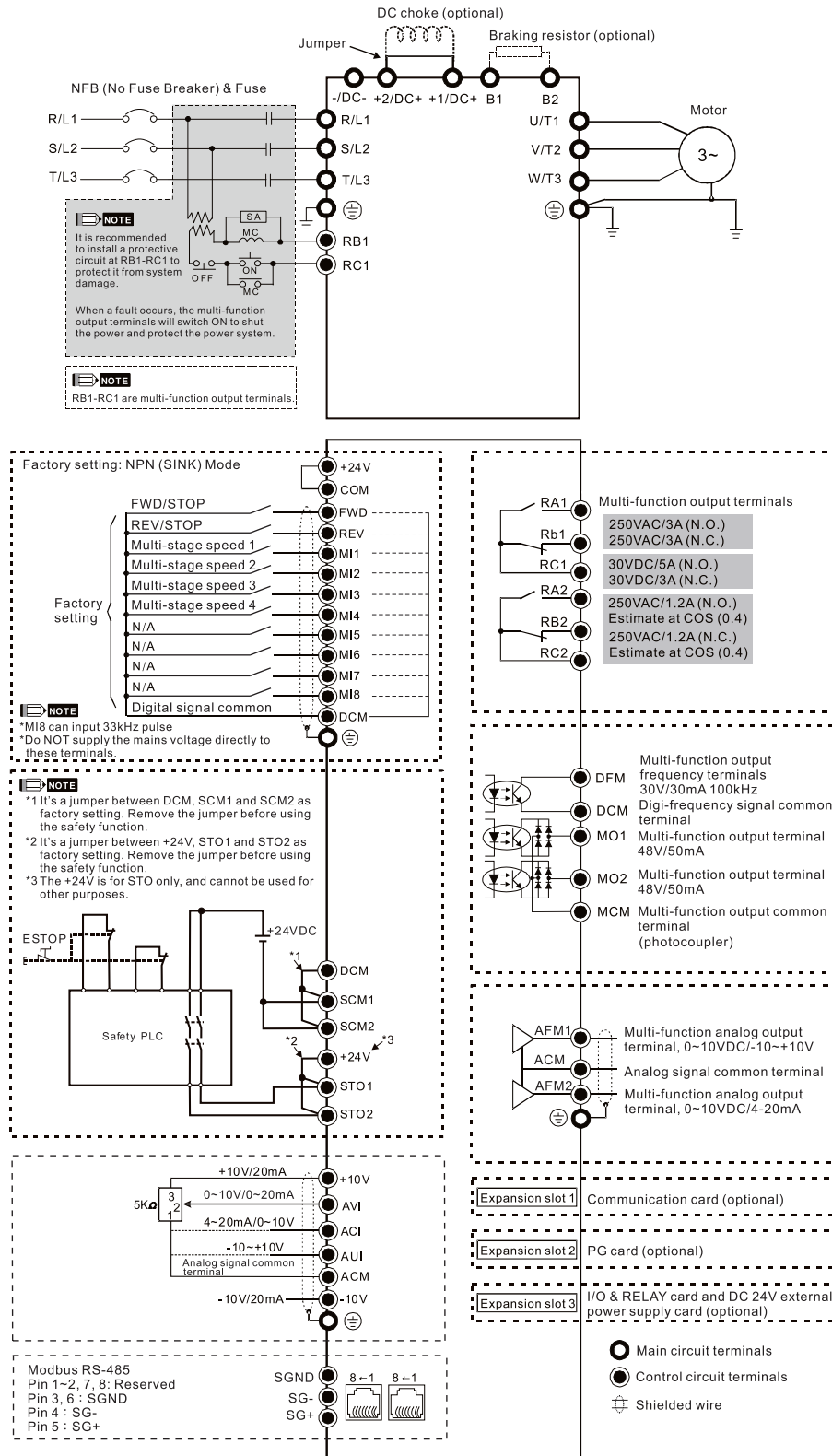
Frame	W	H	D	W1	H1	D1*	S1	Ø1	Ø2	Ø3	
C	mm	250.0	400.0	210.0	231.0	381.0	92.9	8.5	22.2	34.0	50.0
	inch	9.84	15.75	8.27	9.09	15.00	3.66	0.33	0.87	1.34	1.97

*D1: Flange mount.

Wiring

Wiring Diagram for Frame A ~ C

*Input: 3-phase power



NOTE

It is not recommended to use a power capacitor or automatic power factor regulator (APFR) at the power input side. If the system requires such a device, please make sure a reactor is installed between the drive and the power capacitor or APFR.

AC/DC Reactors, Sine Wave Filters & Braking Modules

The overall accessories for the C2000 Plus Series are listed below. You may also refer to the user manual Chapter 7 - Dimensions & Specifications.

230 V_{AC} Models

Frame	Model Name	AC Input Reactor		AC Output Reactor	
		Heavy Duty (HD)	Super Heavy Duty (SHD)	Heavy Duty (HD)	Super Heavy Duty (SHD)
A	VFD007C23A-21	DR005A0254	N/A	DR005L0254	N/A
	VFD015C23A-21	DR008A0159	DR005A0254	DR008L0159	DR005L0254
	VFD022C23A-21	DR011A0115	DR008A0159	DR011L0115	DR008L0159
	VFD037C23A-21	DR017AP746	DR011A0115	DR017LP746	DR011L0115
B	VFD055C23A-21	DR025AP507	DR017AP746	DR025LP507	DR017LP746
	VFD075C23A-21	DR033AP320	DR025AP507	DR033LP320	DR025LP507
	VFD110C23A-21	DR049AP215	DR033AP320	DR049LP215	DR033LP320
C	VFD150C23A-21	DR065AP163	DR049AP215	DR065LP162	DR049LP215
	VFD185C23A-21	DR075AP170	DR065AP163	DR075LP170	DR065LP162
	VFD220C23A-21	DR090AP141	DR075AP170	DR090LP141	DR075LP170
D	VFD300C23A-00/-21	DR146AP087	DR090AP141	DR146LP087	DR090LP141
	VFD370C23A-00/-21	DR146AP087	DR146AP087	DR146LP087	DR146LP087
E	VFD450C23A-00/-21	DR180AP070	DR146AP087	DR180LP070	DR146LP087
	VFD550C23A-00/-21	DR215AP059	DR180AP070	DR215LP059	DR180LP070
	VFD750C23A-00/-21	DR276AP049	DR215AP059	DR276LP049	DR215LP059
F	VFD900C23A-00/-21	DR349AP037	DR276AP049	DR346LP037	DR276LP049

Note 1: *2 indicates two in serial connection

460 V_{AC} Models

Frame	Model Name	AC Input Reactor		AC Output Reactor	
		Heavy Duty (HD)	Super Heavy Duty (SHD)	Heavy Duty (HD)	Super Heavy Duty (SHD)
A	VFD007C43A-21	DR003A0810	N/A	DR003L0810	N/A
	VFD015C43A-21	DR004A0607	DR003A0810	DR004L0607	DR003L0810
	VFD022C43A-21	DR006A0405	DR004A0607	DR006L0405	DR004L0607
	VFD037C43A-21	DR009A0270	DR006A0405	DR009L0270	DR006L0405
	VFD040C43A-21	DR010A0231	DR009A0270	DR010L0231	DR009L0270
	VFD055C43A-21	DR012A0202	DR010A0231	DR012L0202	DR010L0231
B	VFD075C43A-21	DR018A0117	DR012A0202	DR018L0117	DR012L0202
	VFD110C43A-21	DR024AP881	DR018A0117	DR024LP881	DR018L0117
	VFD150C43A-21	DR032AP660	DR024AP881	DR032LP660	DR024LP881
C	VFD185C43A-21	DR038AP639	DR032AP660	DR038LP639	DR032LP660
	VFD220C43A-21	DR045AP541	DR038AP639	DR045LP541	DR038LP639
	VFD300C43A-21	DR060AP405	DR045AP541	DR060LP405	DR045LP541
D0	VFD370C43S-XX	DR073AP334	DR060AP405	DR073LP334	DR060LP405
	VFD450C43S-XX	DR091AP267	DR073AP334	DR091LP267	DR073LP334
D	VFD550C43A-XX	DR110AP221	DR091AP267	DR110LP221	DR091LP267
	VFD750C43A-XX	DR150AP162	DR110AP221	DR150LP162	DR110LP221
E	VFD900C43A-XX	DR180AP135	DR150AP162	DR180LP135	DR150LP162
	VFD1100C43A-XX	DR220AP110	DR180AP135	DR220LP110	DR180LP135
F	VFD1320C43A-XX	DR260AP098	DR220AP110	DR260LP098	DR220LP110
	VFD1600C43A-XX	DR310AP078	DR260AP098	DR310LP078	DR260LP098
G	VFD1850C43A-XX	DR370AP066	DR310AP078	DR370LP066	DR310LP078
	VFD2200C43A-XX	DR460AP054	DR370AP066	DR460LP054	DR370LP066
H	VFD2800C43X-XX	DR550AP044	DR460AP054	DR550LP044	DR460LP054
	VFD3150C43X-XX	DR616AP039	DR550AP044	DR616LP039	DR550LP044
	VFD3550C43X-XX	DR683AP036	DR616AP039	DR683LP036	DR616LP039
	VFD4500C43X-XX	DR866AP028	DR683AP036	DR866LP028	DR683LP036
	VFD5000C43X-XX	N/A	DR866AP028	N/A	DR866LP028
	VFD5600C43X-XX	N/A	N/A	N/A	N/A

Note 1: *2 indicates two in serial connection | Note 2: Indicates two in parallel and two in serial connection. | Note 3: Indicates four in serial connection. |

Note 4: Indicates five in parallel and two in serial connection. | Note 5: Indicates six in parallel and two in serial connection. |

Note 6: Indicates seven in parallel and two in serial connection.

Ordering Information & Series Overview

Frame Size		Power Range	Models			
Frame A		230V: 0.75~3.7kW 460V: 0.75~5.5kW 575V: 1.5~3.7kW	VFD007C23A-21 VFD015C23A-21 VFD022C23A-21 VFD037C23A-21	VFD007C43A-21 VFD015C43A-21 VFD022C43A-21 VFD037C43A-21 VFD040C43A-21 VFD055C43A-21	VFD007C4EA-21 VFD015C4EA-21 VFD022C4EA-21 VFD037C4EA-21 VFD040C4EA-21 VFD055C4EA-21	VFD015C53A-21 VFD022C53A-21 VFD037C53A-21
Frame B		230V: 5.5~11kW 460V: 7.5~15kW 575V: 5.5~15kW	VFD055C23A-21 VFD075C23A-21 VFD110C23A-21	VFD075C43A-21 VFD110C43A-21 VFD150C43A-21	VFD075C4EA-21 VFD110C4EA-21 VFD150C4EA-21	VFD055C53A-21 VFD075C53A-21 VFD110C53A-21 VFD150C53A-21
Frame C		230V: 15~22kW 460V: 18.5~30kW 690V: 18.5~37kW	VFD150C23A-21 VFD185C23A-21 VFD220C23A-21	VFD185C43A-21 VFD220C43A-21 VFD300C43A-21	VFD185C4EA-21 VFD220C4EA-21 VFD300C4EA-21	VFD185C63B-21 VFD220C63B-21 VFD300C63B-21 VFD370C63B-21
Frame D		230V: 30~37kW 460V: 37~75kW 690V: 45~55kW	Frame_D1 VFD300C23A-00 VFD370C23A-00 VFD550C43A-00 VFD750C43A-00 VFD450C63B-00 VFD550C63B-00	Frame_D0-1 VFD370C43S-00 VFD450C43S-00	Frame_D2 VFD300C23A-21 VFD370C23A-21 VFD550C43A-21 VFD750C43A-21 VFD450C63B-21 VFD550C63B-21	Frame_D0-2 VFD370C43S-21 VFD450C43S-21
Frame E		230V: 45~75kW 460V: 90~110kW 690V: 75~132kW	Frame_E1 VFD450C23A-00 VFD550C23A-00 VFD750C23A-00 VFD900C43A-00 VFD1100C43A-00 VFD750C63B-00 VFD900C63B-00 VFD1100C63B-00 VFD1320C63B-00		Frame_E2 VFD450C23A-21 VFD550C23A-21 VFD750C23A-21 VFD900C43A-21 VFD1100C43A-21 VFD750C63B-21 VFD900C63B-21 VFD1100C63B-21 VFD1320C63B-21	
Frame F		230V: 90kW 460V: 132~160kW 690V: 160~200kW	Frame_F1 VFD900C23A-00 VFD1320C43A-00 VFD1600C43A-00 VFD1600C63B-00 VFD2000C63B-00		Frame_F2 VFD900C23A-21 VFD1320C43A-21 VFD1600C43A-21 VFD1600C63B-21 VFD2000C63B-21	