

Advanced Drive Technology

High Performance Variable Frequency Drive Technology

1. Sensorless Vector Control (SVC)
2. Dual rating design (Light duty & Normal duty)
3. Excellent variable torque control of asynchronous motors

Versatile Drive Control

1. Built-in PLC function
2. Built-in brake unit*
3. Networking drive system
4. Auto energy saving



Modular Design

1. Hot pluggable LCD keypad
2. I/O extension card
3. Various communication cards
4. Removable fans

Environmental Adaptability

1. 50°C operation temperature
2. Built-in DC choke*
3. Coated circuit boards
4. Built-in EMC filter*
5. International safety standard CE/UL/cUL

*Note: Please refer to the Product Specifications for more details.

Standard Models

Power range: 230V 0.75~90kW, 460V 0.75~630kW

230 V (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
230 V (HP)	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125
Frame Size	A				B			C			D		E			

460 V (kW)	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37
460 V (HP)	1	2	3	5	5	7.5	10	15	20	25	30	40	50
Frame Size	A						B			C			

460 V (kW)	45	55	75	90	110	132	160	185	200	220	250	280	315	355	400	500	560	630
460 V (HP)	60	75	100	125	150	175	215	250	270	300	340	375	425	475	530	675	750	850
Frame Size	D0		D		E		F		G				H					

Power range: 575V 1.5~15kW, 690V 18.5~630kW


575 V (kW)	1.5	2.2	3.7	5.5	7.5	11	15
575 V (HP)	2	3	5	7.5	10	15	20
Frame Size	A			B			

690 V (kW)	18.5	22	30	37	45	55	75	90	110	132	160	200	250	315
690 V (HP)	25	30	40	50	60	75	100	125	150	175	215	270	335	425
Frame Size	C			D		E				F		G		

690 V (kW)	400	450	560	630
690 V (HP)	530	600	750	850
Frame Size	H			

Environment for Operation, Storage and 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	Storage/Transportation (°C)	-25 ~ 70
		Non-condensation, non-frozen	
	Rated Humidity	Operation	Max. 95%
		Storage/Transportation	Max. 95%
		No condense water	
	Air Pressure	Operation/Storage (kPa)	86 ~ 106
		Transportation (kPa)	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 conditions 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 of 0~1,000m, follow normal operation restrictions. If it is installed at altitude 1,000~2,000m, decrease 1% of rated current or lower 0.5°C of temperature for every 100m increase in altitude. Maximum altitude for Corner Grounded TN system is 2,000m. For application over 2,000m, please contact Delta for more details.	
Package Drop	Storage/Transportation	ISTA procedure 1A (according to weight) IEC60068-2-31	
Vibration	1.0mm, peak to peak value range from 2Hz to 13.2Hz; 0.7G~1.0G range from 13.2Hz to 55Hz; 1.0G range from 55Hz to 512Hz. Comply with IEC 60068-2-6.		
Impact	IEC/EN 60068-2-27		
Operation Position	Max. allowed offset angle ±10° (under normal installation position)		

Specifications for Operation Temperature and Protection Level

Model	Frame	Top Cover	Conduit Box	Protection Level	Operation Temperature
VFDxxxxCP23x-21 VFDxxxxCP43x-21 VFDxxxxCP4Ex-21 VFDxxxxCP53x-21 VFDxxxxCP63x-xx	Frame A~C 230V: 0.75~30kW 460V: 0.75~37kW 575V: 1.5~15kW 690V: 18.5~37kW	Remove top cover	Standard conduit plate	IP20/UL Open Type	30V & 460V: -10°C~50°C*1 575V & 690V: -10°C~50°C
		Standard with top cover		IP20/UL Type1/NEMA1	-10°C~40°C
	Frame D~H 230V: ≥ 37kW 460V: ≥ 45kW 690V: ≥ 45kW	N/A	Conduit box	IP20/UL Type1/NEMA1	-10°C~40°C
VFDxxxxCP23x-00 VFDxxxxCP43x-00 VFDxxxxCP63x-00	Frame D~H 230V: ≥ 37kW 460V: ≥ 45kW 690V: ≥ 45kW	N/A	No conduit box	IP00 IP20/UL Open Type	230V & 460V: -10°C~50°C*1 690V: -10°C~50°C



Protection degree for the circled area is IP00; other areas are IP20

*1 When the carrier wave for light duty is 2kHz, the maximum operation temperature can reach up to 50°C

Specifications

230 V																			
Frame Size		A					B			C			D		E				
Model VFD-□□□□CP23□-□□		007	015	022	037	055	075	110	150	185	220	300	370	450	550	750	900		
Output Rating	LIGHT DUTY	Rated Output Capacity (kVA)	2.0	3.0	4.0	6.0	8.4	12	18	24	30	36	42	58	72	86	110	128	
		Rated Output Current (A)	5	7.5	10	15	21	31	46	61	75	90	105	146	180	215	276	322	
		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	90	
		Applicable Motor Output (HP)	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	125	
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes																
	NORMAL DUTY	Max. Output Frequency (Hz)	599.00														400.00		
		Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)						2~9 (default setting 4)				
		Rated Output Capacity (kVA)	1.2	2.0	3.2	4.4	6.8	10	13	20	26	30	36	48	58	72	86	102	
		Rated Output Current (A)	3	5	8	11	17	25	33	49	65	75	90	120	146	180	215	255	
		Applicable Motor Output (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	19	22	30	37	45	55	75	
Input Rating	LIGHT DUTY	Applicable Motor Output (HP)	0.5	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds																
		Max. Output Frequency (Hz)	599.00														400.00		
		Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)						2~9 (default setting 4)				
		Rated Output Capacity (kVA)	1.2	2.0	3.2	4.4	6.8	10	13	20	26	30	36	48	58	72	86	102	
	NORMAL DUTY	Rated Output Current (A)	3	5	8	11	17	25	33	49	65	75	90	120	146	180	215	255	
		Applicable Motor Output (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	19	22	30	37	45	55	75	
		Applicable Motor Output (HP)	0.5	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds																
		Max. Output Frequency (Hz)	599.00														400.00		
Input Rating	LIGHT DUTY	Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)						2~9 (default setting 4)				
		Input Current (A) Light Duty	6.4	9.6	15	22	25	35	50	65	83	100	116	146	180	215	276	322	
		Input Current (A) Normal Duty	3.9	6.4	12	16	20	28	36	52	72	83	99	124	143	171	206	245	
		Rated Voltage/Frequency	3-phase, 200~240 V _{AC} (-15%~+10%), 50/60 Hz																
		Operating Voltage Range	170~264 V _{AC}																
	NORMAL DUTY	Frequency Tolerance	47~63 Hz																
		Efficiency (%)	97.8														98.2		
		Power Factor	>0.98																
		Weight (Kg)	2.6 ± 0.3					5.4 ± 1			9.8 ± 1.5			38.5 ± 1.5		64.8 ± 1.5			
		Cooling Method	Natural Cooling		Fan Cooling														
Braking Chopper	Frame A, B, C, Built-in												Frame D and above: Optional						
DC Choke	Frame A, B, C, Optional												Frame D and above: Built-in 3%						
EMC Filter	Optional																		

460 V																			
Frame Size		A					B			C			D0						
Models VFD-□□□□CP43□-□□ VFD-□□□□CP4E□-□□		007	015	022	037	040	055	075	110	150	185	220	300	370	450	550			
Output Rating	LIGHT DUTY	Rated Output Capacity (kVA)	2.4	3.3	4.4	6.8	8.4	10.4	14.3	19	25	30	36	48	58	73	88		
		Rated Output Current (A)	3	4.2*	5.5*	8.5*	10.5	13*	18*	24*	32*	38*	45	60*	73*	91	110		
		Applicable Motor Output (kW)	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55		
		Applicable Motor Output (HP)	1	2	3	5	5	7.5	10	15	20	25	30	40	50	60	75		
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes																
	NORMAL DUTY	Max. Output Frequency (Hz)	599.00																
		Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)										
		Rated Output Capacity (kVA)	2.2	2.4	3.2	4.8	7.2	8.4	10.4	14.3	19	25	30	36	48	58	73	88	
		Rated Output Current (A)	1.7	3.0	4.0	6.0	9.0	10.5	12	18	24	32	38	45	60	73	91	110	
		Applicable Motor Output (kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	
Input Rating	LIGHT DUTY	Applicable Motor Output (HP)	0.5	1	2	3	5	5	7.5	10	15	20	25	30	40	53	60		
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds																
		Max. Output Frequency (Hz)	599.00																
		Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)										
		Rated Output Capacity (kVA)	2.2	2.4	3.2	4.8	7.2	8.4	10.4	14.3	19	25	30	36	48	58	73	88	
	NORMAL DUTY	Rated Output Current (A)	1.7	3.0	4.0	6.0	9.0	10.5	12	18	24	32	38	45	60	73	91	110	
		Applicable Motor Output (kW)	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	
		Applicable Motor Output (HP)	0.5	1	2	3	5	5	7.5	10	15	20	25	30	40	53	60	75	
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds																
		Max. Output Frequency (Hz)	599.00																
Input Rating	LIGHT DUTY	Carrier Frequency (kHz)	2~15 (default setting 8)						2~10 (default setting 6)										
		Input Current (A) Light Duty	4.3	6.0	8.1	12.4	16	20	22	26	35	42	50	66	80	91	110		
		Input Current (A) Normal Duty	3.5	4.3	5.9	8.7	14	15.5	17	20	26	35	40	47	63	74	101		
		Rated Voltage/Frequency	3-phase, 380~480 V _{AC} (-15%~+10%), 50/60 Hz																
		Operating Voltage Range	323~528 V _{AC}																
	NORMAL DUTY	Frequency Tolerance	47~63 Hz																
		Efficiency (%)	97.8																
		Power Factor	>0.98																
		Weight (Kg)	2.6 ± 0.3					5.4 ± 1			9.8 ± 1.5			27 ± 1					
		Cooling Method	Natural cooling		Fan cooling														
Braking Chopper	Frame A, B, C, Built-in; Frame D and above, Optional																		
DC Choke	Frame A, B, C, Optional; Frame D and above, Built-in 3%																		
EMC Filter	Frame A, B, C of VFD____CP4EA_-_-; Built-in Frame A, B, C of VFD____CP43A_-_-; no built-in Frame D above, Optional																		

* It means the rated output current is for the models of version B. (e.g. VFD015CP43B-21)

460 V																		
Frame Size		D			E		F		G			H						
Model VFD-□□□□CP43□-□□		750	900	1100	1320	1600	1850	2000	2200	2500	2800	3150	3550	4000	5000	5600	6300	
Output Rating	LIGHT DUTY	Rated Output Capacity (kVA)	120	143	175	207	247	295	315	367	383	422	491	544	613	773	872	966
		Rated Output Current (A)	150*	180	220	260*	310	370*	395	460	481	530	616	683	770	930	1094	1212
		Applicable Motor Output (kW)	75	90	110	132	160	185	200	220	250	280	315	355	400	500	560	630
		Applicable Motor Output (HP)	100	125	150	175	215	250	270	300	340	375	425	475	530	675	750	850
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes															
		Max. Output Frequency (Hz)	599.00	400.00														
		Carrier Frequency (kHz)	2~10 (default setting 6)	2~9 (default setting 4)														
	NORMAL DUTY	Rated Output Capacity (kVA)	88	120	143	175	207	247	270	295	315	367	438	491	544	720	741	872
		Rated Output Current (A)	110	150	180	220	260	310	310	370	395	460	550	616	683	866	930	1094
		Applicable Motor Output (kW)	55	75	90	110	132	160	160	185	200	220	280	315	355	450	500	560
		Applicable Motor Output (HP)	75	100	125	150	175	215	215	250	270	300	375	425	475	600	675	750
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds															
		Max. Output Frequency (Hz)	599.00	400.00														
		Carrier Frequency (kHz)	2~10 (default setting 6)	2~9 (default setting 4)														
Input Rating	Input Current (A) Light Duty	150	180	220	260	310	370	395	460	481	530	616	683	770	930	1094	1212	
	Input Current (A) Normal Duty	114	157	167	207	240	300	300	380	390	400	494	555	625	866	930	1094	
	Rated Voltage/Frequency	3-phase, 380~480 V _{AC} (-15%~+10%), 50/60 Hz																
	Operating Voltage Range	323~528 V _{AC}																
Frequency Tolerance	47~63 Hz																	
Efficiency (%)	97.8	98.2																
Power Factor	>0.98																	
Weight (Kg)	38.5 ± 1.5	64.8 ± 1.5	86.5 ± 1.5	134 ± 4			228											
Cooling Method	Fan cooling																	
Braking Chopper	Frame D above, Optional																	
DC Choke	Frame D above, Built-in, 3%																	
EMC Filter	Frame D above, Optional																	

* It means the rated output current is for the models of Version B. (e.g. VFD015CP43B-21)

575 V																			
Frame Size		A						B											
Model VFD-□□□CP53A-21		015	022	037	055	075	110	150											
Output *	LIGHT DUTY	Rated Output Capacity (kVA)	3	4.3	6.7	9.9	12.1	18.6	24.1										
		Rated Output Current (A)	3	4.3	6.7	9.9	12.1	18.7	24.2										
		Applicable Motor Output (kW)	1.5	2.2	3.7	5.5	7.5	11	15										
		Applicable Motor Output (HP)	2	3	5	7.5	10	15	20										
	NORMAL DUTY	Rated Output Capacity (kVA)	2.5	3.6	5.5	8.2	10	15.4	19.9										
		Rated Output Current (A)	2.5	3.6	5.5	8.2	10	15.4	20										
		Applicable Motor Output (kW)	0.75	1.5	2.2	3.7	5.5	7.5	11										
		Applicable Motor Output (HP)	1	2	3	5	7.5	10	15										
	Carrier Frequency (kHz)		2~9 (default setting 4)																
	Input	Input Current (A) Light Duty	3.8	5.4	10.4	14.9	16.9	21.3	26.3										
Input Current (A) Normal Duty		3.1	4.5	7.2	12.3	15	18	22.8											
Rated Voltage/Frequency		3-Phase, 525~600 V _{AC} (-15%~+10%), 50/60 Hz																	
Operating Voltage Range		446~660 V _{AC}																	
Frequency Tolerance	47~63 Hz																		
Efficiency (%)	97						98												
Power Factor	>0.98																		
AC Drive Weight (Kg)	3±0.3						4.8±1												
Cooling Method	Natural cooling						Fan cooling												
Braking Chopper	Built-in																		
DC Choke	Optional																		

690V												
Frame Size		C				D		E				
Model VFD-□□□CP63A-□□		185	220	300	370	450	550	750	900	1100	1320	
Output *	LIGHT DUTY	Rated Output Capacity (kVA)	29	36	43	54	65	80	103	124	149	179
		Applicable Motor Output (690V, kW)	18.5	22	30	37	45	55	75	90	110	132
		Applicable Motor Output (690V, HP)	25	30	40	50	60	75	100	125	150	175
		Applicable Motor Output (575V, HP)	20	25	30	40	50	60	75	100	125	150
		Rated Output Current (A)	24	30	36	45	54	67	86	104	125	150
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes									
		Max. Output Frequency (Hz)	599.00									
	NORMAL DUTY	Rated Output Capacity (kVA)	24	29	36	43	54	65	80	103	124	149
		Applicable Motor Output (690V, kW)	15	18.5	22	30	37	45	55	75	90	110
		Applicable Motor Output (690V, HP)	20	25	30	40	50	60	75	100	125	150
		Applicable Motor Output (575V, HP)	15	20	25	30	40	50	60	75	100	125
		Rated Output Current (A)	20	24	30	36	45	54	67	86	104	125
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds									
		Max. Output Frequency (Hz)	599.00									
Carrier Frequency (kHz)	2~9 (default setting 4)											
Input	Input Current (A) Light Duty	29	36	43	54	65	81	84	102	122	147	
	Input Current (A) Normal Duty	24	29	36	43	54	65	66	84	102	122	
	Rated Voltage/Frequency	3-Phase, 525~690 V _{AC} (-15%~+10%), 50/60 Hz										
	Operating Voltage Range	446~759 V _{AC}										
	Frequency Tolerance	47~63 Hz										
Efficiency (%)	97											
Power Factor	>0.98											
AC Drive Weight (Kg)	10±1.5				39±1.5			61±1.5				
Cooling Method	Fan cooling											
Braking Chopper	Frame C (built-in)					Frame D and above (optional)						
DC Choke	Frame C (optional)					Frame D and above (built-in)						


690V												
Frame Size		F			G		H					
Model VFD-□□□CP63A-□□		1600	2000	2500	3150	4000	4500	5600	6300			
Output *	LIGHT DUTY	Rated Output Capacity (kVA)	215	263	347	418	494.5	534.7	678.5	776		
		Applicable Motor Output (690V, kW)	160	200	250	315	400	450	560	630		
		Applicable Motor Output (690V, HP)	215	270	335	425	530	600	750	850		
		Applicable Motor Output (575V, HP)	150	200	250	350	400	450	500	750		
		Rated Output Current (A)	180	220	290	350	430	465	590	675		
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes									
		Max. Output Frequency (Hz)	599.00									
	NORMAL DUTY	Rated Output Capacity (kVA)	179	215	239	347	402.5	442.7	534.7	776		
		Applicable Motor Output (690V, kW)	132	160	200	250	315	355	450	630		
		Applicable Motor Output (690V, HP)	175	215	270	335	425	475	600	850		
		Applicable Motor Output (575V, HP)	150	150	200	250	350	400	450	750		
		Rated Output Current (A)	150	180	220	290	350	385	465	675		
		Overload Tolerance	120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds									
		Max. Output Frequency (Hz)	599.00									
Carrier Frequency (kHz)	2~9 (default setting 4)									2~9 (default setting 3)		
Input	Input Current (A) Light Duty	178	217	292	353	454	469	595	681			
	Input Current (A) Normal Duty	148	178	222	292	353	388	504	681			
	Rated Voltage/Frequency	3-Phase, 525~690 V _{AC} (-15%~+10%), 50/60 Hz										
	Operating Voltage Range	446~759 V _{AC}										
	Frequency Tolerance	47~63 Hz										
Efficiency (%)	97				98							
Power Factor	>0.98											
AC Drive Weight (Kg)	88±1.5			135±4			243±5					
Cooling Method	Fan cooling											
Braking Chopper	Frame D and above (optional)											
DC Choke	Frame D and above (built-in)											

Note : 1. When a load is a surge load, use a higher level model.

2. For Frame A, B and C, Model VFDXXXCPXXX-21, the enclosure type is IP20/ UL OPEN TYPE.

3. For Frame D and above, if the last two characters of the model are 00, then the enclosure type is IP00/ IP20/ UL OPEN TYPE; if the last two characters of the model are 21, the enclosure type is IP20/NEMA1/ UL TYPE1.



General Specifications

Control Characteristics	Control Method	Pulse Width Modulated (PWM)			
	Control Mode	1: V/F (V/F control), 2: SVC (Sensorless Vector Control), 3: PM (Permanent Magnet Motor)			
	Starting Torque	Reach up to 150% or above at 0.5Hz			
	V/F Curve	4 point adjustable V/F curve and square curve			
	Speed Response Ability	5Hz			
	Torque Limit	Light Duty: Max. 130% torque current; Normal Duty: Max. 160% torque current			
	Torque Accuracy	±5%			
	Max. Output Frequency (Hz)	230 V model: 599.00 (55kW and above: 400.00) 460 V model: 599.00 (90kW and above: 400.00) 575V/690 V model: 599.00			
	Frequency Output Accuracy	Digital command: ±0.01%, -10°C~+40°C, Analog command: ±0.1%, 25 ±10°C			
	Output Frequency Resolution	Digital command: 0.01 Hz; Analog command: Max. output frequency×0.03/60Hz (±11 bit)			
	Overload Tolerance	Light duty: 120% of rated current for 1 minute during every 5 minutes Normal duty: 120% of rated current for 1 minute during every 5 minutes; 160% of rated current for 3 seconds during every 25 seconds			
	Frequency Setting Signal	0~+10V, 4~20mA, 0~20mA			
	Accel./decel. Time	0.00~600.00/0.0~6000.0 seconds			
Main Control Function	Fault restart	Torque limit	High-Slip braking	Dwell	3-wire sequence
	Speed search	Parameter copy	JOG frequency	Slip compensation	Torque compensation
	S-curve accel/decel	Energy saving control	Accel/Decel. Time switch	Frequency upper/lower limit settings	Momentary power loss ride thru
	PID control (with sleep function)	Auto-Tuning (rotational, stationary)	DC injection braking at start/stop	BACnet Communication	17-step speed (max.)
	Over-torque detection	Modbus communication (RS-485 RJ45, Max. 5.2Kbps)			
Fan Control	230 V model: Model with spec higher than VFD185CP23 (included) are PWM control; Model with spec lower than VFD150CP23 (not included) are on/off switch control. 460 V model: Model with spec higher than VFD220CP43/4E (included) are PWM control; Model with spec lower than VFD185CP43/4E (not included) are on/off switch control. 575V/690 V model: PWM control				
Protection Characteristics	Motor Protection	Electronic thermal relay protection			
	Over-Current Protection	230V/460V model: Light duty: Over-current protection for 185% rated current, Normal duty: Over-current protection for 240% rated current, Current clamp (Light duty: 130~135%); (Normal duty: 170~175%)			
		575V/690V model: Over-current protection for 225% rated current Current clamp (Light duty: around 128~141%); (Normal duty: around 170~175%)			
	Over-Voltage Protection	230V model: drive will stop when DC bus voltage exceeds 410V 460V model: drive will stop when DC bus voltage exceeds 820V 575V model: drive will stop when DC bus voltage exceeds 1016V 690V model: drive will stop when DC bus voltage exceeds 1189V			
	Over-Temperature Protection	Built-in temperature sensor			
	Stall Prevention	Stall prevention during acceleration, deceleration and running independently			
	Restart After Instantaneous Power Failure	Parameter setting up to 20 seconds			
	Grounding Leakage Current Protection	Leakage current is higher than 50% of rated current of the AC motor drive			
Short-circuit Current Rating (SCCR)	Per UL508C, the drive is suitable for use on a circuit capable of delivering not more than 100kA symmetrical amperes (rms) when protected by fuses given in the fuse table				
International Certifications*	 SEMI F47, GB/T12668.3				

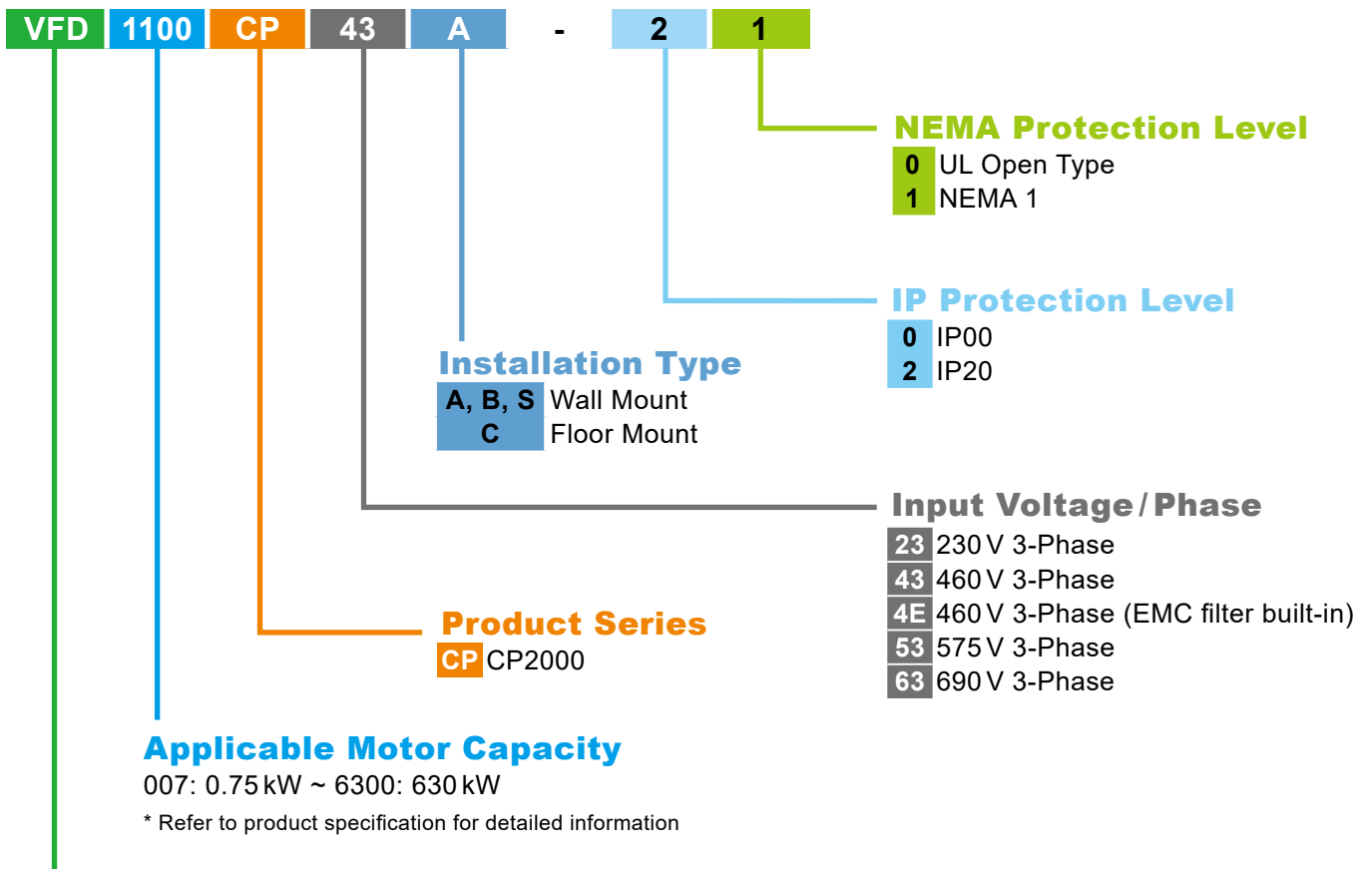
Note : 1. EAC Certification is for 230 V and 460 V models only
2. No UL certification for models above 500 kW

Ordering Information

Frame Size	Power Range	Models				
Frame A 	230 V: 0.75 ~ 5.5 kW 460 V: 0.75 ~ 7.5 kW 575 V: 1.5 ~ 3.7 kW	VFD007CP23A-21 VFD015CP23A-21 VFD022CP23A-21 VFD037CP23A-21 VFD055CP23A-21	VFD007CP43A-21 VFD015CP43B-21 VFD022CP43B-21 VFD037CP43B-21 VFD040CP43A-21 VFD055CP43B-21 VFD075CP43B-21	VFD007CP4EA-21 VFD015CP4EB-21 VFD022CP4EB-21 VFD037CP4EB-21 VFD040CP4EA-21 VFD055CP4EB-21 VFD075CP4EB-21	VFD015CP53A-21 VFD022CP53A-21 VFD037CP53A-21	
Frame B 	230 V: 7.5 ~ 15 kW 460 V: 11 ~ 18.5 kW 575 V: 5.5 ~ 15 kW	VFD075CP23A-21 VFD110CP23A-21 VFD150CP23A-21	VFD110CP43B-21 VFD150CP43B-21 VFD185CP43B-21	VFD110CP4EB-21 VFD150CP4EB-21 VFD185CP4EB-21	VFD055CP53A-21 VFD075CP53A-21 VFD110CP53A-21 VFD150CP53A-21	
Frame C 	230 V: 18.5 ~ 30 kW 460 V: 22 ~ 37 kW 690 V: 18.5 ~ 37 kW	VFD185CP23A-21 VFD220CP23A-21 VFD300CP23A-21	VFD220CP43A-21 VFD300CP43B-21 VFD370CP43B-21	VFD220CP4EA-21 VFD300CP4EB-21 VFD370CP4EB-21	VFD185CP63A-21 VFD220CP63A-21 VFD300CP63A-21 VFD370CP63A-21	
Frame D 	230 V: 37 ~ 45 kW 460 V: 45 ~ 90 kW 690 V: 55 ~ 75 kW	Frame D1: VFD370CP23A-00 VFD450CP23A-00 VFD750CP43B-00 VFD900CP43A-00 Frame D0-1: VFD450CP43S-00 VFD550CP43S-00	Frame D2: VFD370CP23A-21 VFD450CP23A-21 VFD750CP43B-21 VFD900CP43A-21 Frame D0-2: VFD450CP43S-21 VFD550CP43S-21	Frame D1: VFD450CP63A-00 VFD550CP63A-00 Frame D2: VFD450CP63A-21 VFD550CP63A-21		
Frame E 	230 V: 55 ~ 90 kW 460 V: 110 ~ 132 kW 690 V: 75 ~ 132 kW	Frame E1: VFD550CP23A-00 VFD750CP23A-00 VFD900CP23A-00 VFD1100CP43A-00 VFD1320CP43B-00	Frame E2: VFD550CP23A-21 VFD750CP23A-21 VFD900CP23A-21 VFD1100CP43A-21 VFD1320CP43B-21	Frame E1: VFD750CP63A-00 VFD900CP63A-00 VFD1100CP63A-00 VFD1320CP63A-00 Frame E2: VFD750CP63A-21 VFD900CP63A-21 VFD1100CP63A-21 VFD1320CP63A-21		
Frame F 	460 V: 160 ~ 185 kW 690 V: 160 ~ 200 kW	Frame F1: VFD1600CP43A-00 VFD1850CP43B-00	Frame F2: VFD1600CP43A-21 VFD1850CP43B-21	Frame F1: VFD1600CP63A-00 VFD2000CP63A-00 Frame F2: VFD1600CP63A-21 VFD2000CP63A-21		
Frame G 	460 V: 220 ~ 280 kW 690 V: 250 ~ 315 kW	Frame G1: VFD2000CP43A-00 VFD2200CP43A-00 VFD2500CP43A-00 VFD2800CP43A-00	Frame G2: VFD2000CP43A-21 VFD2200CP43A-21 VFD2500CP43A-21 VFD2800CP43A-21	Frame G1: VFD2500CP63A-00 VFD3150CP63A-00 Frame G2: VFD2500CP63A-21 VFD3150CP63A-21		

Frame Size		Power Range	Models	
Frame H		460V: 315 ~ 630kW	Frame H1: VFD3150CP43A-00 VFD3550CP43A-00 VFD4000CP43A-00 VFD5000CP43A-00 VFD5600CP43A-00 VFD6300CP43A-00	Frame H3: VFD3150CP43C-21 VFD3550CP43C-21 VFD4000CP43C-21 VFD5000CP43C-21 VFD5600CP43C-21 VFD6300CP43C-21
Frame H (690 V Model)		690V: 400 ~ 630kW		Frame H1: VFD4000CP63A-00 VFD4500CP63A-00 VFD5600CP63A-00 VFD6300CP63A-00 Frame H2: VFD4000CP63A-21 VFD4500CP63A-21 VFD5600CP63A-21 VFD6300CP63A-21

Model Name



Product

Variable Frequency Drive

