

# VFD C2000



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Delta Products Corporation (Brazil)  
Sao Paulo Office  
Rua Itapeva, N° 26, 3° andar, Bela vista  
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## Europe

Deltronics (The Netherlands) B.V.  
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De Witbogt 15, 5652 AG Eindhoven, The Netherlands  
TEL: 31-40-2592850 / FAX: 31-40-2592851



Delta Electronics -

- VFD-C2000.  
(FOC),

(Field Oriented Control)

MODBUS CANOpen  
: PROFIBUS-DP, DeviceNet, MODBUS TCP Ethernet/IP

CE, UL cUL

(IP20/NEMA1)  
: 230V 0.75...90 , 460V 0.75...355

230 ( )	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
	A			B			C		D		E				F*	
460 ( )	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75
	A			B			C		D							
460 ( )	90	110	132	160	185	220	280	315	355							
	E		F*		G*		H*									

II 2010



# C2000

VFD-C FOC-

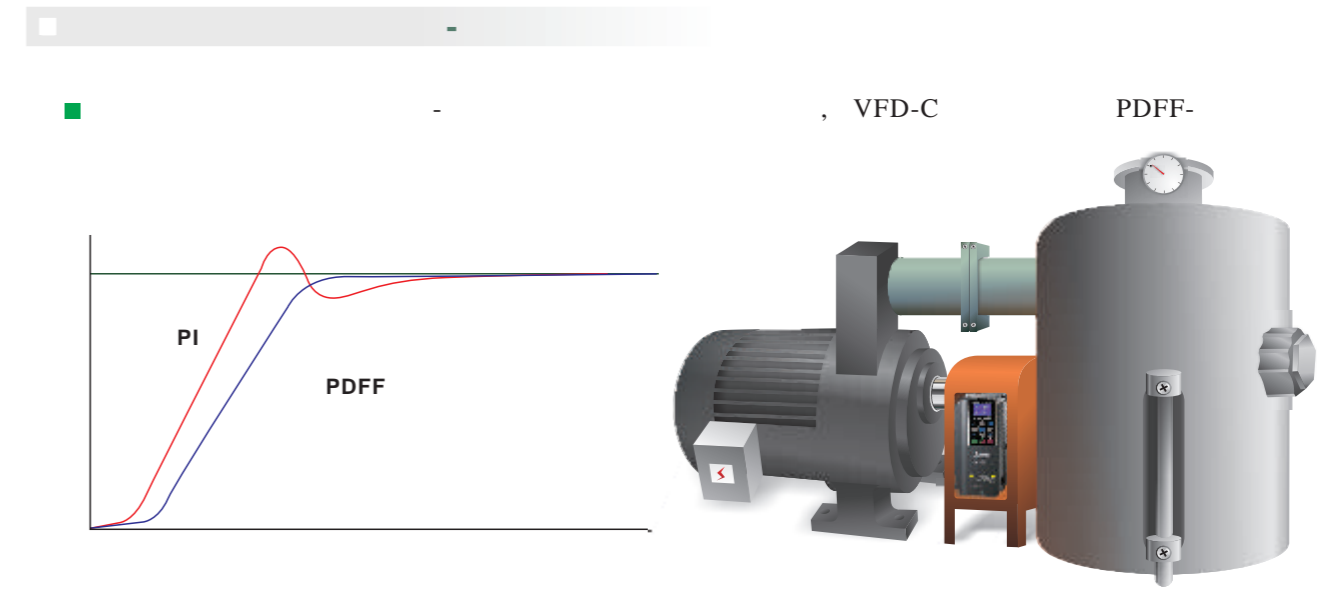
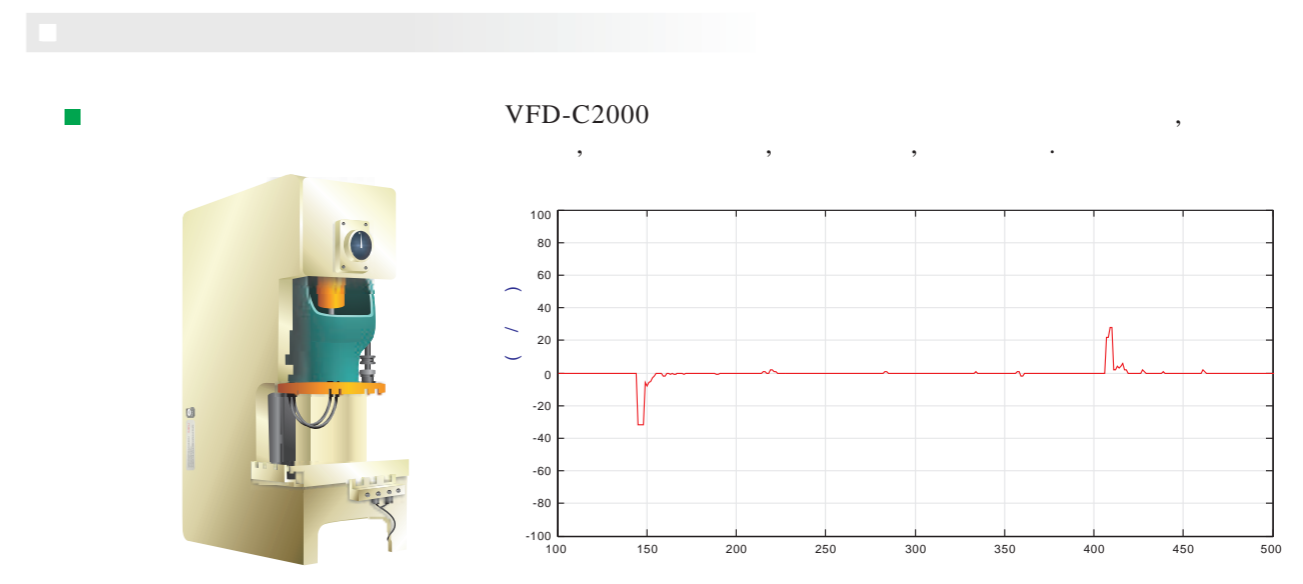
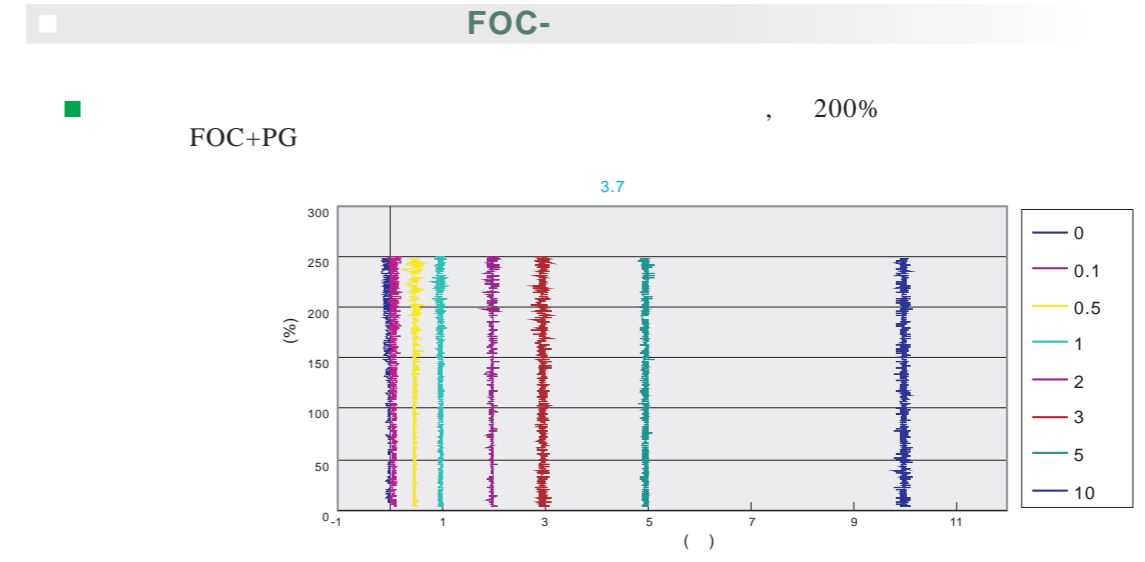
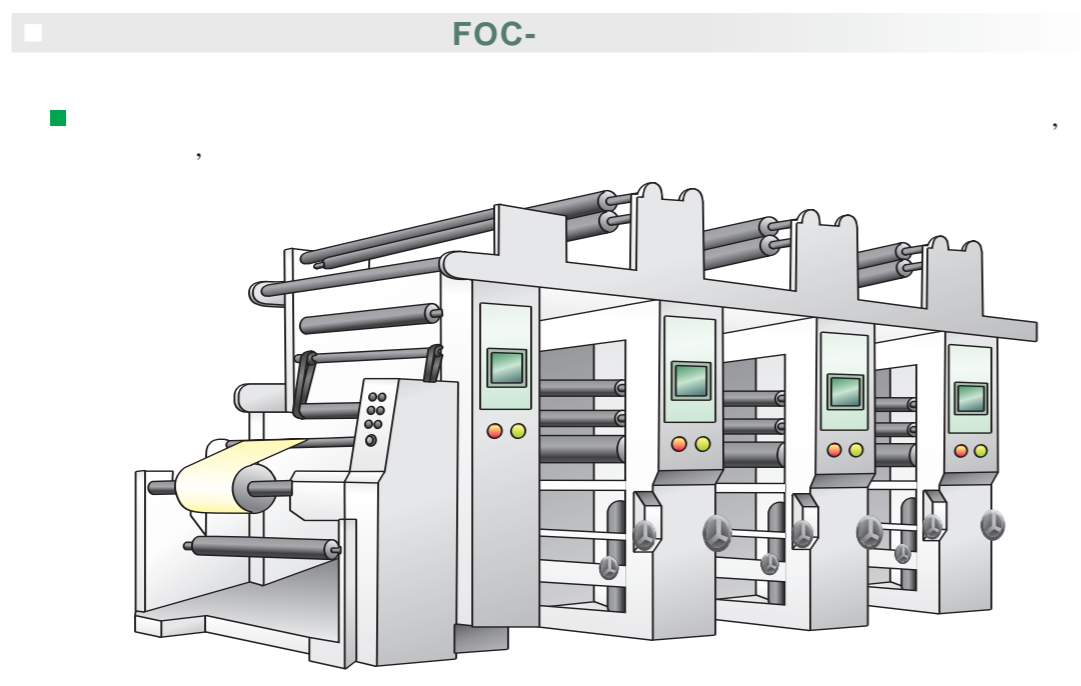
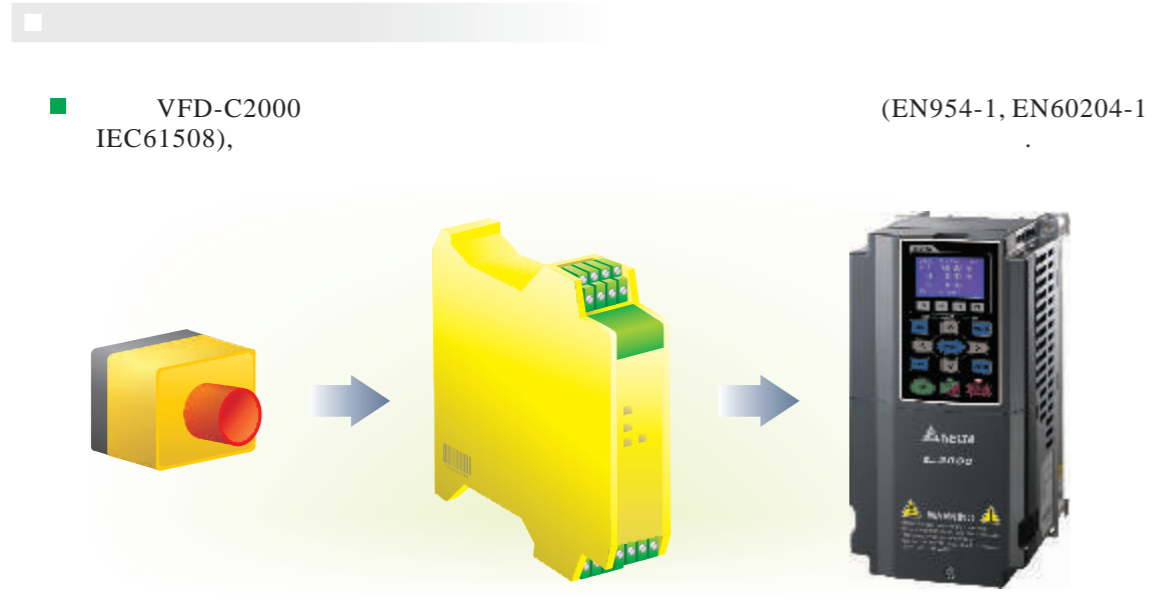
1. 600
- 2.
- 3.
4. / 4-
- 5.

- 1.
- 2.
- 3.
- 4.



- 1.
- 2.
- 3.
- 4.
- 5.

1. 50°
2. DC
- 3.
4. RFI -
5. (CE, UL, cUL)

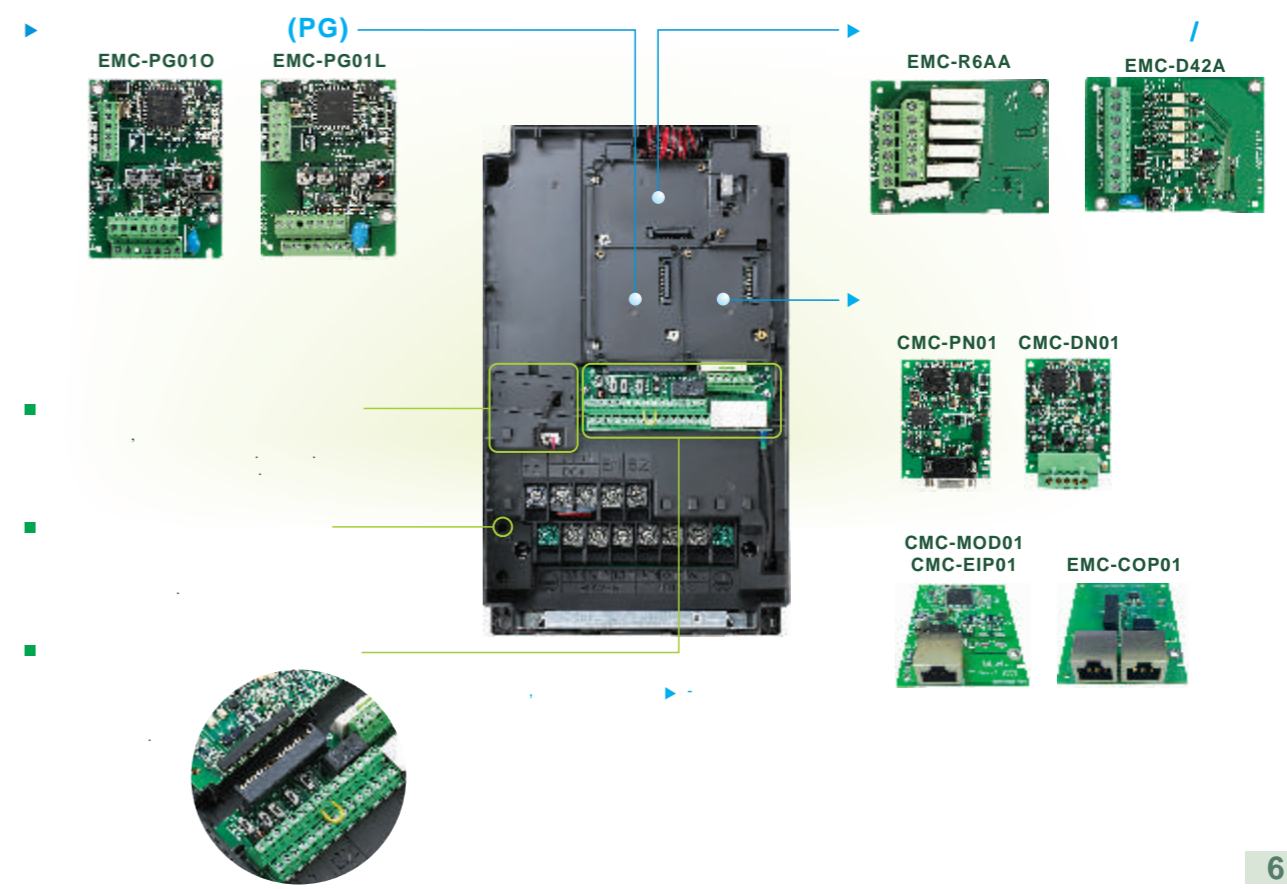
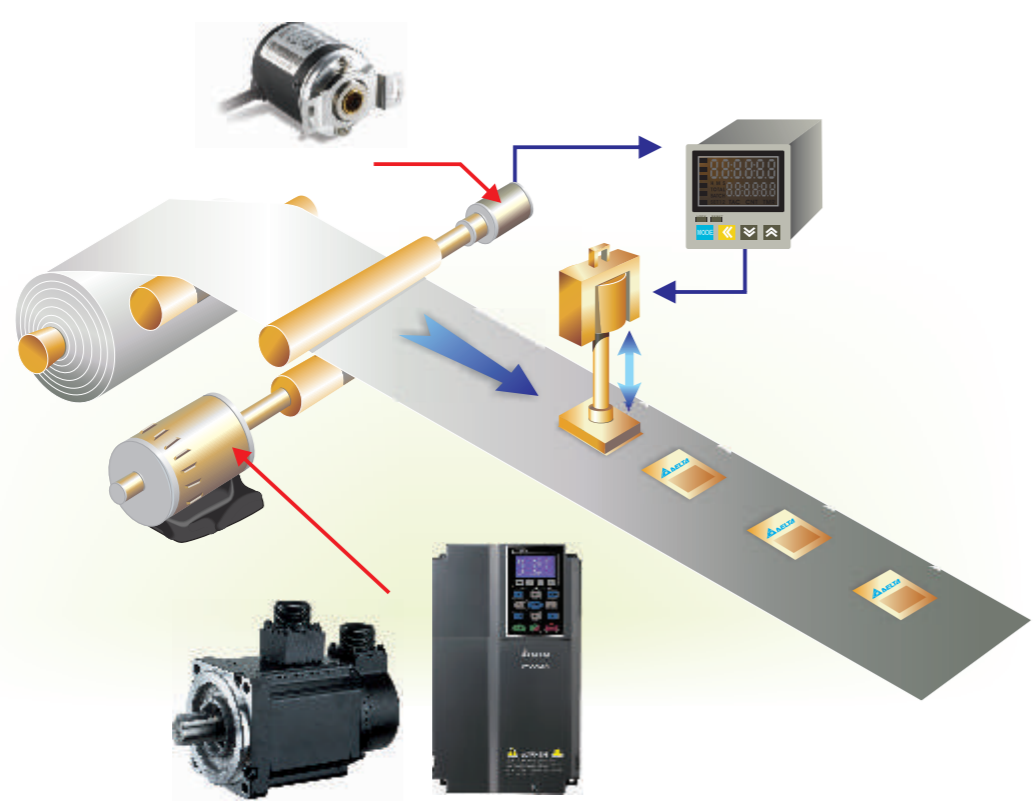


VFD-C



VFD-C2000

2- -1



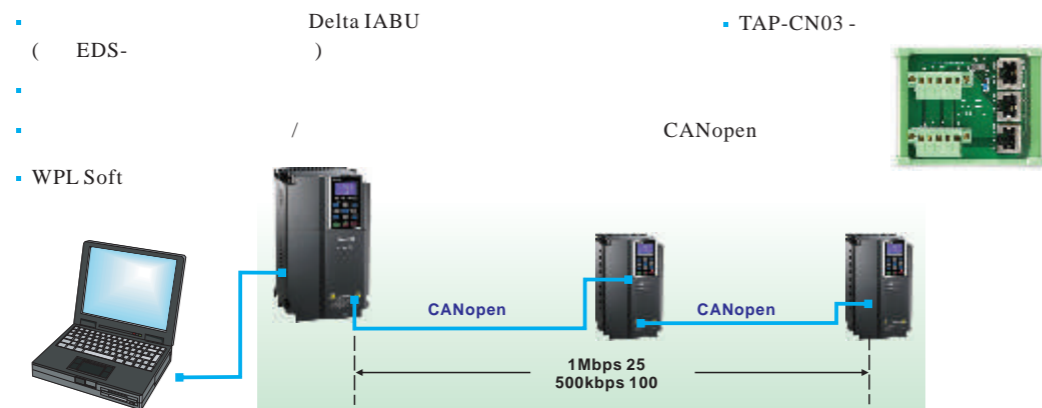
RS-485



CANopen (DS402),

Delta

CANopen Builder,  
CANopen.



Delta DeviceNet Builder

DeviceNet

( EDS- )  
DeviceNet



MODBUS TCP

DCI Soft



Ethernet

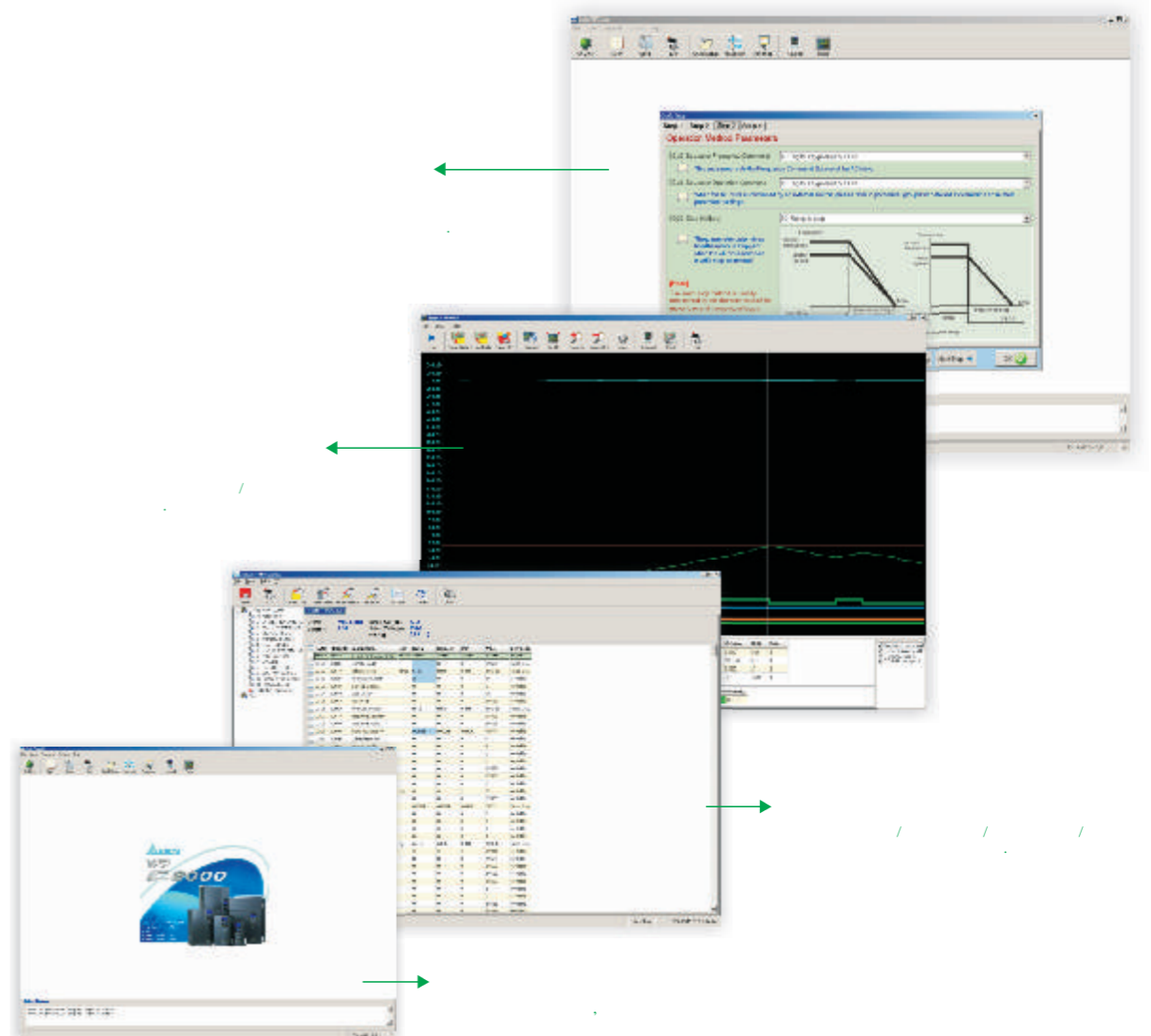
Delta Ethernet/Modbus TCP

COM-

RFI-  
IEC/EN61000-3-2, 61000-3-12 61800-3.



- (1)
- (2)



 <p><b>A</b></p>	<b>230 :</b> 0.75~3.7 (1~5HP)	VFD007C23A/E VFD037C23A/E VFD007C43A/E VFD015C43A/E VFD037C43A/E VFD040C43A/E VFD055C43A/E	▶ [MKC-AFM]
	<b>460 :</b> 0.75~5.5 (1~7.5HP)	VFD015C23A/E VFD022C23A/E VFD022C43A/E	▶ [MKC-AFM1]
 <p><b>B</b></p>	<b>230 :</b> 5.5~11 (7.5~15HP)	VFD055C23A/E VFD075C23A/E VFD110C23A/E VFD075C43A/E VFD110C43A/E VFD150C43A/E	▶ [MKC-BFM]
	<b>460 :</b> 7.5~15 (10~20HP)		
 <p><b>C</b></p>	<b>230 :</b> 15~22 (20~30HP)	VFD150C23A/E VFD185C23A/E VFD220C23A/E VFD185C43A/E VFD220C43A/E VFD300C43A/E	▶ [MKC-CFM]
	<b>460 :</b> 18.5~30 (25~40HP)		
 <p><b>D</b></p>	<b>230 :</b> 30~37 (40~50HP)	VFD300C23A VFD370C23A VFD370C43A VFD450C43A VFD550C43A VFD750C43A VFD300C23E VFD370C23E VFD370C43E VFD450C43E VFD550C43E VFD750C43E	▶ Conduit box kit [MKC-DN1CB]
	<b>460 :</b> 37~75 (50~100HP)		
 <p><b>E</b></p>	<b>230 :</b> 45~75 (60~100HP)	VFD450C23A/E VFD550C23A/E VFD750C23A VFD900C43A/E VFD1100C43A/E VFD750C23E	▶ Conduit box kit [MKC-EN1CB]
	<b>460 :</b> 90~110 (125~150HP)		
 <p><b>F</b></p>	<b>230 :</b> 90 (125HP)	VFD900C23A/E VFD1320C43A/E VFD1600C43A/E	2010 . II .
	<b>460 :</b> 132~160 (175~215HP)		
 <p><b>G</b></p>	<b>460 :</b> 185~220 (250~300HP)	VFD1850C43A/E VFD2200C43A/E	2010 . II .
 <p><b>H</b></p>	<b>460 :</b> 280~355 (375~475HP)	VFD2800C43A/E VFD3150C43A/E VFD3550C43A/E	2010 . II .

MODEL: VFD007C43A

INPUT:  
Normal Duty: 3PH 380-480V 50/60Hz 4.3A  
Heavy Duty: 3PH 380-480V 50/60Hz 4.1A

OUTPUT:  
Normal Duty: 3PH 0-480V 3A 2.4KVA 1HP  
Heavy Duty: 3PH 0-480V 2.9A 2.3KVA 1HP

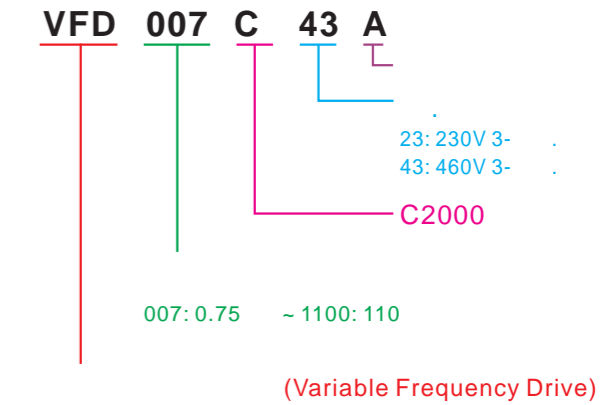
FREQUENCY RANGE:  
Normal Duty: 0-600Hz  
Heavy Duty: 0-300Hz








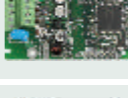

Version: VX.XX

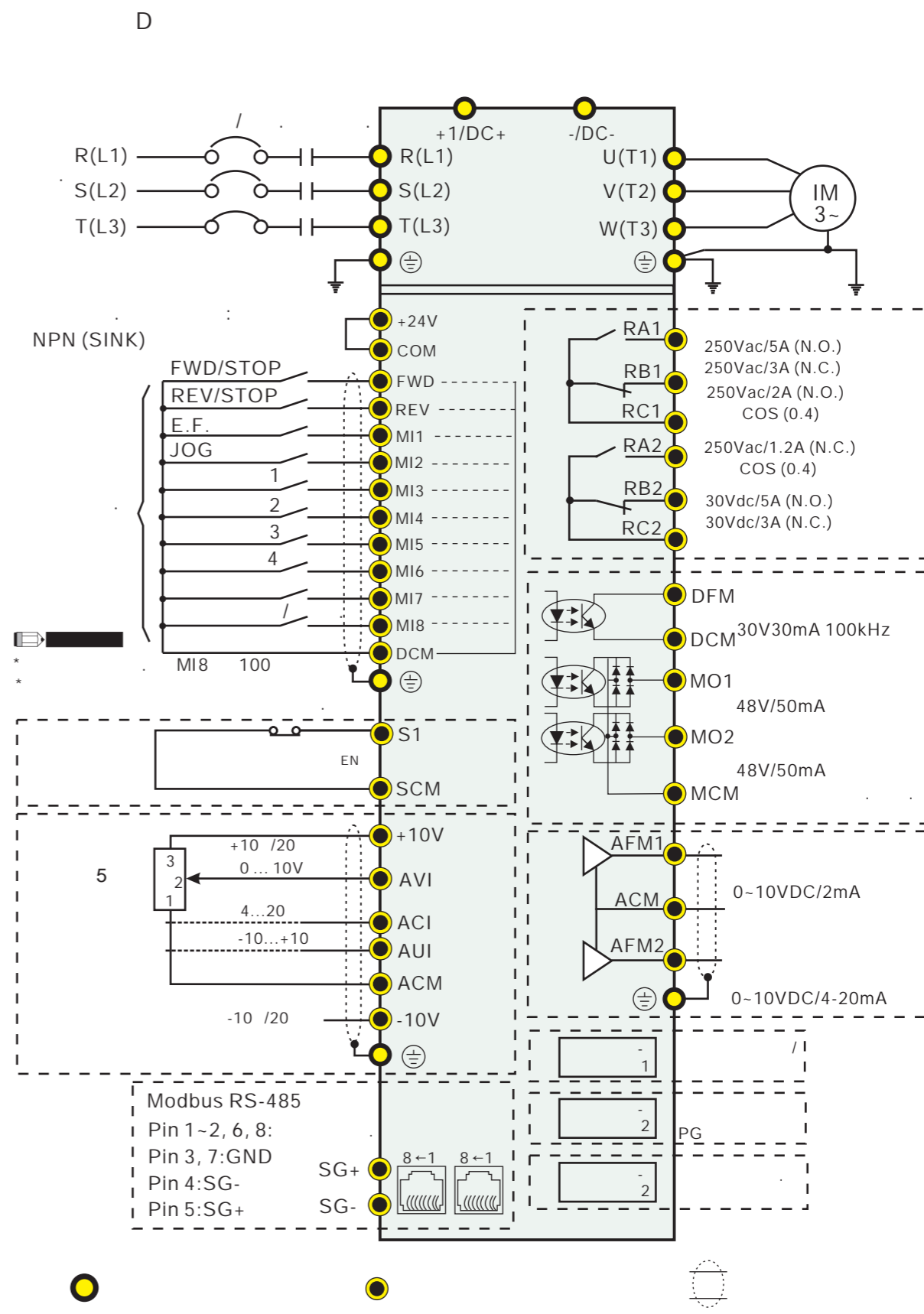
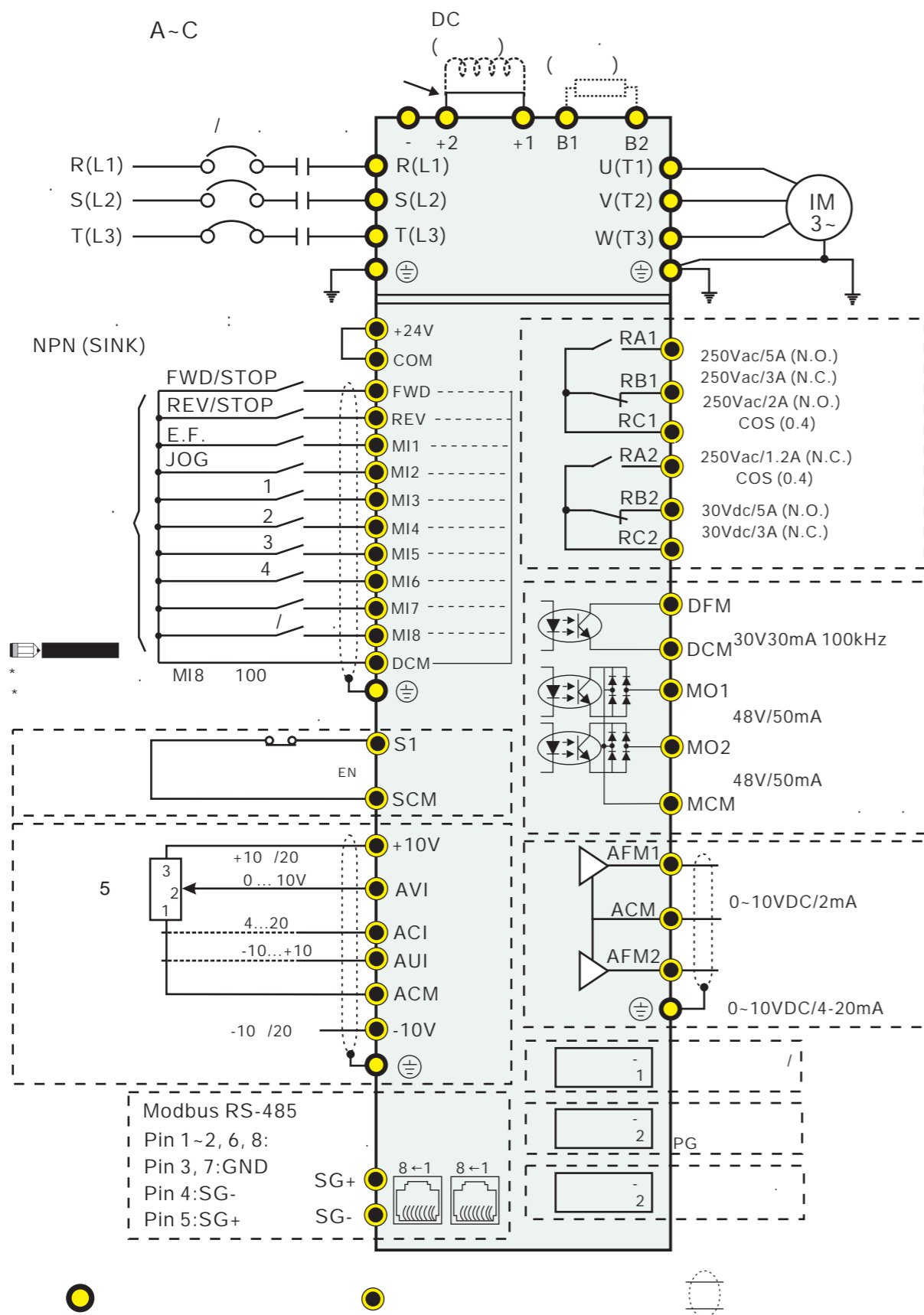
(IPXX)

007C43A7T9300002

DELTA ELECTRONICS, INC.  
MADE IN XXXXXXX



 <p>CMC-EIP01 CMC-MOD01</p>	EtherNet/IP (CMC-EIP01) MODBUS TCP (CMC-MOD01) 10/100 / ,
	 <p>CMC-PN01</p> <p>DP-PROFIBUS                  9.6 / , 19.2 / , 96.75 / , 187.5 / ,                  500 / , 1.5 / , 3 / , 6 / 12 /</p>
	 <p>CMC-DN01</p> <p>DeviceNet                  125 / , 250 / , 500 /</p>
	 <p>EMC-COP01</p> <p>CANopen                  1 500k 250k 125k 100k 50k</p>
 <p>EMC-R6AA</p>	(6 )
	 <p>EMC-D42A</p> <p>(4 2 / )</p>
 <p>EMC-PG01O</p>	PG : V+ ( , PLC ) : 300
	 <p>EMC-PG01L</p> <p>PG :                  : 5VDC                  : 50                  : 300</p>
 <p>KPC-CE01</p>	7- LED- , (MKC-KPPK) , IP56.



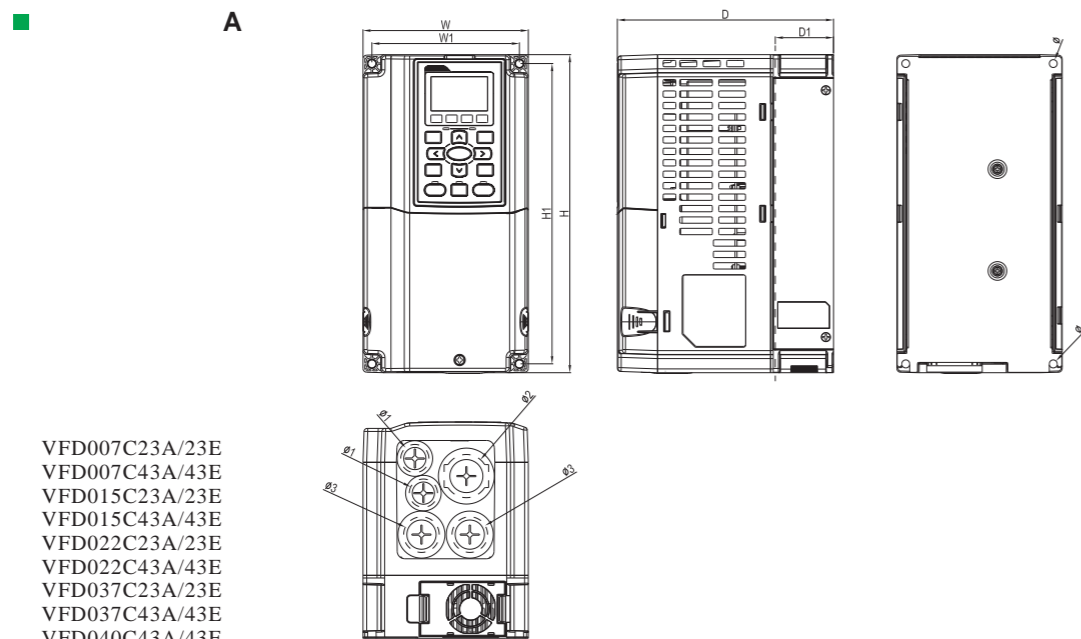
230V		A					B			C			D		E		
VFD-__C__		007	015	022	037	055	075	110	150	185	220	300	370	450	550	750	
( )		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	
(..)		1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	
( )		1.9	2.8	4.0	6.4	9.6	12	19	25	28	34	45	55	68	81	96	
(A)		4.8	7.1	10	16	24	31	47	62	71	86	114	139	171	204	242	
( )		2-6															
( )		2.0	3.2	4.4	6.8	10	13	20	26	30	36	48	58	72	86	102	
(A)		5	8	11	17	25	33	49	65	75	90	120	146	180	215	255	
( )		2-15					2-10					2-9					
(A)		6.1	11	15	18.5	26	34	50	68	78	95	118	136	162	196	233	
(A)		6.4	12	16	20	28	36	52	72	83	99	124	143	171	206	245	
/		3- AC 200 (-15%)...240 (+10%), 50/60															
		170-265Vac															
		47-63															
EMI-																	

1: V/F, 2: SVC, 3: VF+PG, 4: FOC+PG	150%	0.5	150%	0	1
V/f	4				
5 ( )	40				
.200%					
±5%					
( )	: 0.01~600.00		: 0.00~300.00		
	: ±0.01%, -10...+40°		: ±0.1%, 25±10°		
	: 0.01		: 0.03/60 (±11)		
	: 120%		1		
	: 150%		1		
/	+10...-10, 0...10, 4...20, 0...20				
J	0.00...600.00/0.0...6000.0				
	MODBUS (RS-485 (RJ45)) 115.2 / ,				
	B : / ;		C :		
	: 240%		: 170~175%;		: 180~185%
230:	DC		410		
460:	DC		820		
	20				
	: 50%				

460V		A					B			C			D			E					
VFD-__C__		007	015	022	037	040	055	075	110	150	185	220	300	370	450	550	750	900	1100		
( )		0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110		
(..)		1	2	3	5	5	7.5	10	15	20	25	30	40	50	60	75	100	125	150		
( )		2.3	3.0	4.5	6.5	7.6	9.6	14	18	24	29	34	45	55	69	84	114	136	167		
(A)		2.9	3.8	5.7	8.1	9.5	11	17	23	30	36	43	57	69	86	105	143	171	209		
( )		2-6																			
( )		2.4	3.2	4.8	7.2	8.4	10	14	19	25	30	36	48	58	73	88	120	143	175		
(A)		3.0	4.0	6.0	9.0	10.5	12	18	24	32	38	45	60	73	91	110	150	180	220		
( )		2-15					2-10					2-9									
(A)		4.1	5.6	8.3	13	14.5	16	19	25	33	38	45	60	70	96	108	149	159	197		
(A)		4.3	5.9	8.7	14	15.5	17	20	26	35	40	47	63	74	101	114	157	167	207		
/		3- AC 38 (-15%)...480 (+10%), 50/60																			
		323~528Vac																			
		47-63																			
EMI-		VFDXXXC43A: EMI-					EMI-					VFDXXXC43A:					con du it box kit; VFDXXX43E: NEMA1				

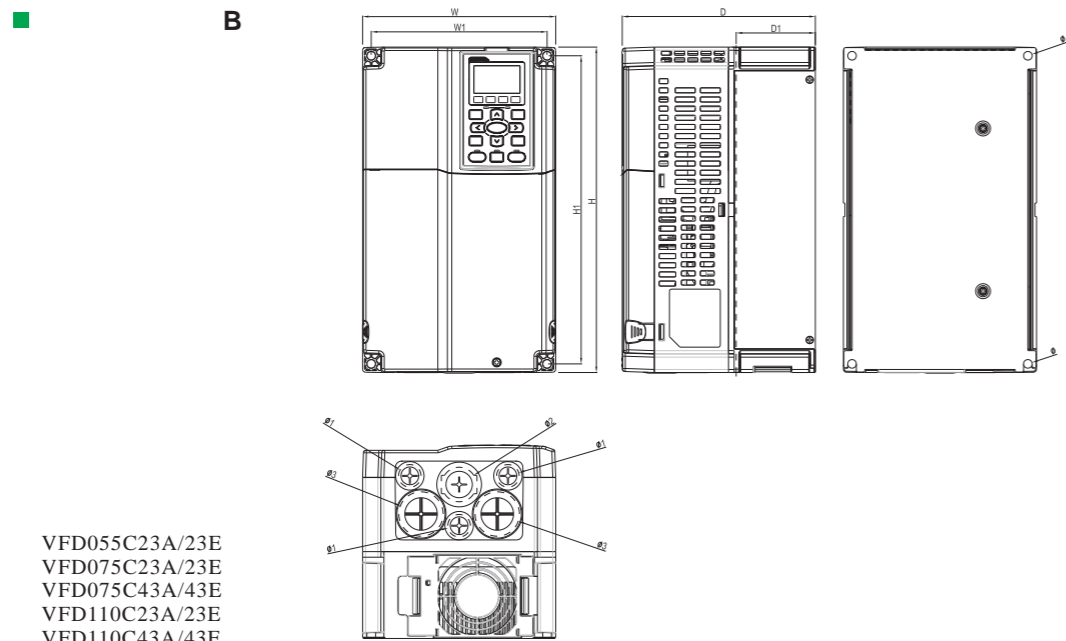
IEC60364-1/IEC60664-1	2,	
NEMA 1/UL Type 1	2%	1° : -10...+40°
UL Open Type	2%	1° : -10...+50°
/		-25...+70°
		.90%
/		.95%
/		86...106
		70...106
IEC60721-3-3 (application is in progress)		
		Class 3C2; Class 3S2
		Class 2C2; Class 2S2
		Class 1C2; Class 1S2
	1000	2% 1000...3000, 0.5°C 100
/		ISTA procedure 1A( ) IEC60068-2-31
1.5	3-13, 1G	13-200 ( IEC 60068-2-6)
15G	11	( IEC/EN 60068 2-27)
		±10°





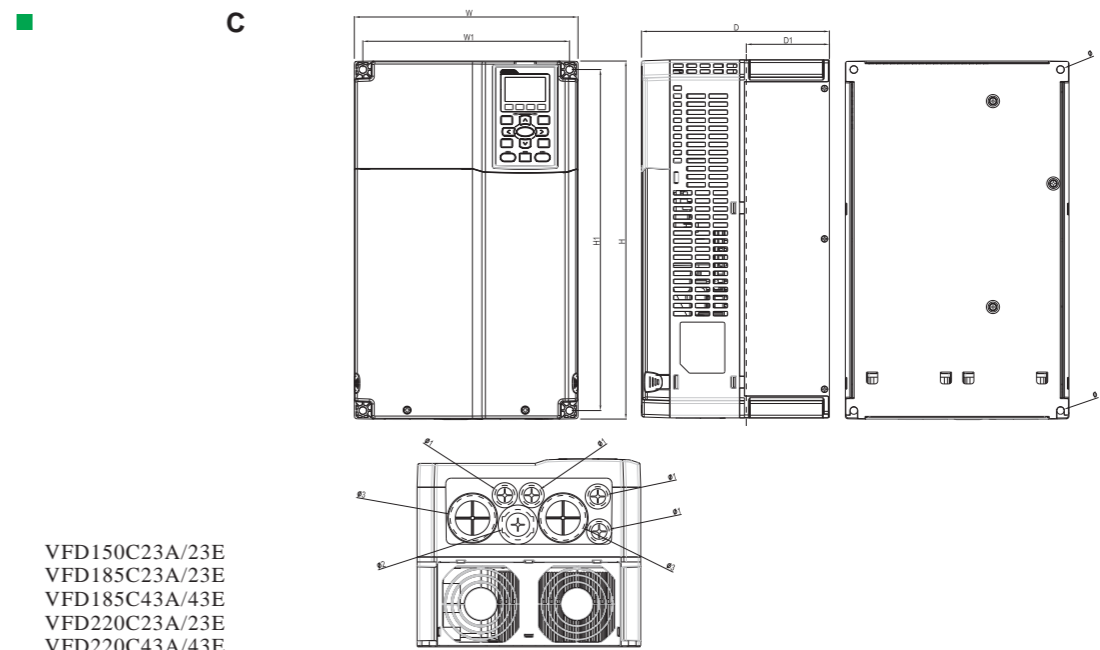
VFD007C23A/23E  
 VFD007C43A/43E  
 VFD015C23A/23E  
 VFD015C43A/43E  
 VFD022C23A/23E  
 VFD022C43A/43E  
 VFD037C23A/23E  
 VFD037C43A/43E  
 VFD040C43A/43E  
 VFD055C43A/43E

	W	H	D	W1	H1	D1*	Ø	Ø1	Ø2	Ø3
A	130.0	250.0	170.0	116.0	236.0	45.8	6.2	22.2	34.0	28.0
	5.12	9.84	6.69	4.57	9.29	1.80	0.24	0.87	1.34	1.10



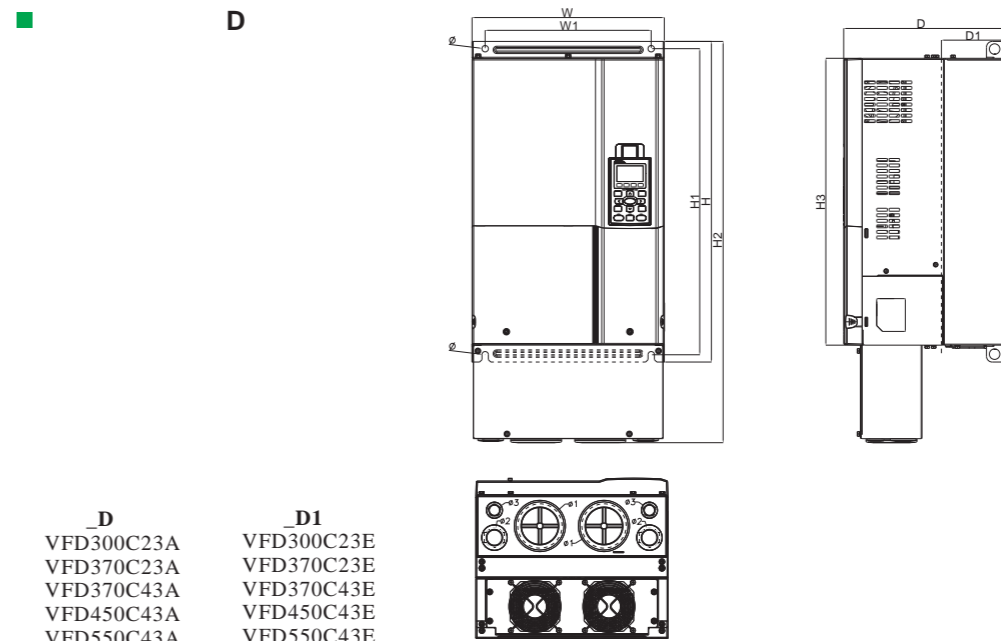
VFD055C23A/23E  
 VFD075C23A/23E  
 VFD075C43A/43E  
 VFD110C23A/23E  
 VFD110C43A/43E  
 VFD150C43A/43E

	W	H	D	W1	H1	D1*	Ø	Ø1	Ø2	Ø3
B	190.0	320.0	190.0	173.0	303.0	77.9	8.5	22.2	34.0	43.8
	7.48	12.60	7.48	6.81	11.93	3.07	0.33	0.87	1.34	1.72



VFD150C23A/23E  
 VFD185C23A/23E  
 VFD185C43A/43E  
 VFD220C23A/23E  
 VFD220C43A/43E  
 VFD300C43A/43E

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

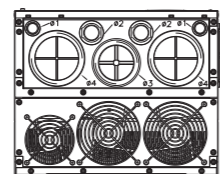
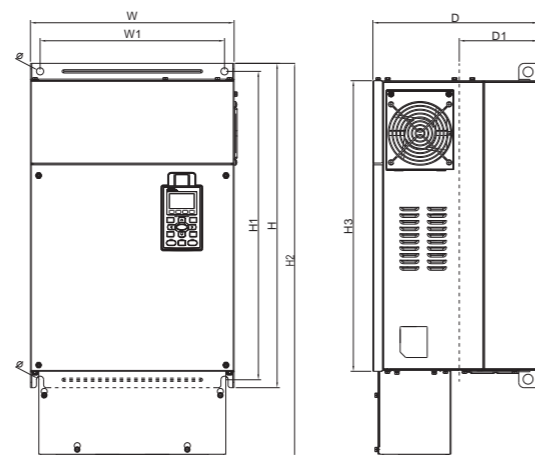


**\_D**  
 VFD300C23A  
 VFD370C23A  
 VFD370C43A  
 VFD450C43A  
 VFD550C43A  
 VFD750C43A

**\_D1**  
 VFD300C23E  
 VFD370C23E  
 VFD370C43E  
 VFD450C43E  
 VFD550C43E  
 VFD750C43E

	W	H	D	W1	H1	H2	H3	D1*	Ø	Ø1	Ø2	Ø3
D	330.0 [12.99]	550.0 [21.65]	275.0 [10.83]	285.0 [11.22]	525.0 [20.67]	-	492.0 [19.37]	107.2 [4.22]	11.0 [0.43]	34.0 [1.34]	22.0 [0.87]	11.0 [0.43]
D1	330.0 [12.99]	550.0 [21.65]	275.0 [10.83]	285.0 [11.22]	525.0 [20.67]	688.3 [27.10]	492.0 [19.37]	107.2 [4.22]	11.0 [0.43]	34.0 [1.34]	22.0 [0.87]	11.0 [0.43]

E



**\_E**  
 VFD450C23A  
 VFD550C23A  
 VFD900C43A  
 VFD1100C43A

**\_E1**  
 VFD450C23E  
 VFD550C23E  
 VFD900C43E  
 VFD1100C43E

	W	H	D	W1	H1	H2	H3	D1*	Ø	Ø1	Ø2	Ø3	Ø4
<b>E</b>	370.0 [14.57]	589.0 [23.19]	300.0 [11.81]	335.0 [13.19]	560.0 [22.05]	-	528.0 [20.80]	143.0 [5.63]	13.0 [0.51]	22.0 [0.87]	34.0 [1.34]	76.0 [2.99]	92.0 [3.62]
<b>E1</b>	370.0 [14.57]	589.0 [23.19]	300.0 [11.81]	335.0 [13.19]	560.0 [22.05]	715.8 [28.18]	528.0 [20.80]	143.0 [5.63]	13.0 [0.51]	22.0 [0.87]	34.0 [1.34]	76.0 [2.99]	92.0 [3.62]

E1\*:

