

Automation for a Changing World

Delta IP55 Fan and Pump Drive CFP2000 Series



www.deltaww.com

DELTA

Smarter. Greener. Together.

www.importsnab24.ru

CFP2000

Delta's CFP2000 series is an AC motor drive specially designed for HVAC, fans & pumps, a IP55 enclosure to provide effective protection from dust and other particles and to offer a many outstanding features and built-in functions that reduce setup and tuning time in ope

The CFP2000 is equipped with a built-in EMC filter and a DC choke. This design replaces t space for other devices, while providing the benefits of harmonic suppression and better are also included, which allow you to simply select the needed application in the paramete safety standard is required, an optional main switch function is also available upon select IM/PM motors, real time clock, built-in 10k steps PLC capacity and various optional extens needs into one drive, it is your friendliest and smartest choice available in the industry.



and water treatment applications. It is designed with an good level of protection to water. In addition, it includes eration and provide higher efficiency.

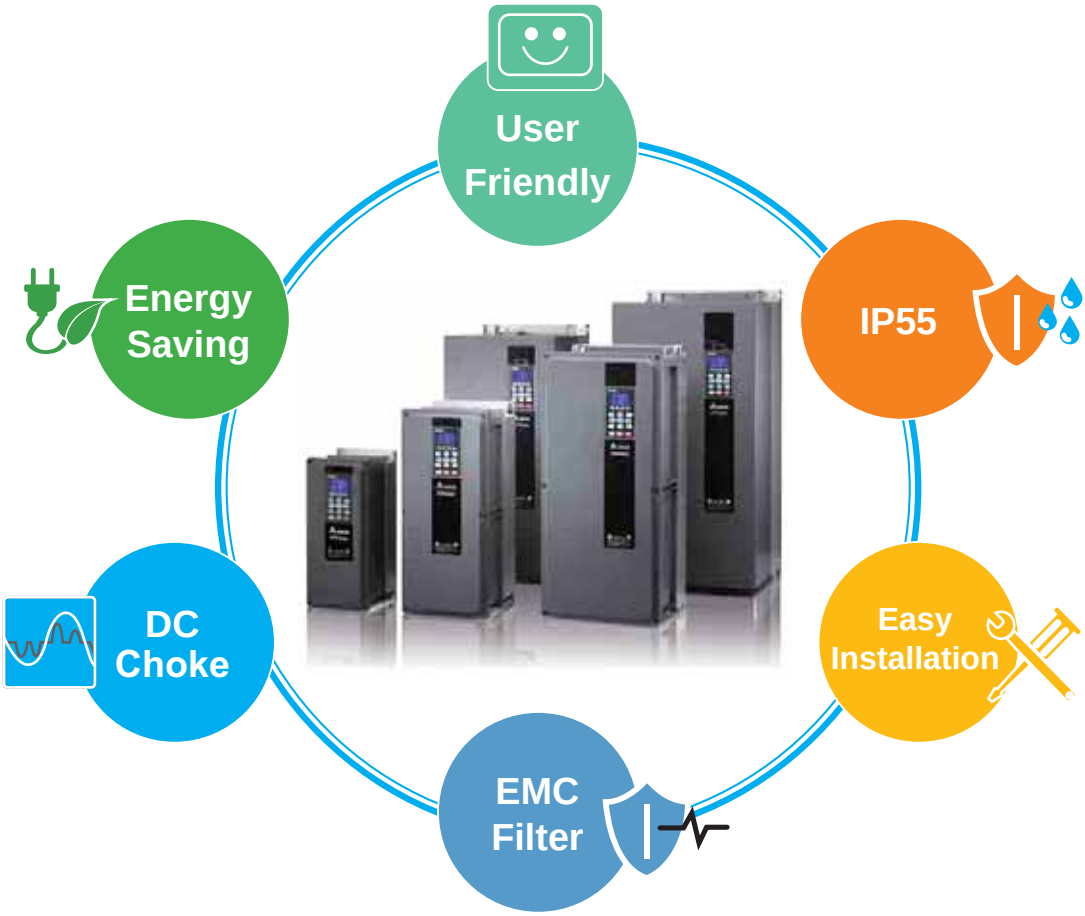
he need for an electrical distribution cabinet and saves power quality to the system. Various parameter groups er group setting and the system setup is ready. If a higher ion. Other outstanding features include support for both sion cards. The CFP2000 series integrates all of your



Index

Highlights	3
Features	4
Operating Environment	7
Environment for Operation, Storage and Transportation	8
Specifications	9
General Specifications	10
Wiring	11
Dimensions	13
Accessories	18
Ordering Information	22
Model Name	22

Highlights



Standard Models

Power range: AC 380 to 480V/3 phase

kW	0.75	1.5	2.2	3.7	4	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
HP	1	2	3	5	5	7.5	10	15	20	25	30	40	50	60	75	100	125
Frame Size	A							B				C		D0		D	

Application


HVAC


Fans


Chiller


Water treatment

Features

▶ Motor controls



IM motor

PM motor

▶ Overload ability

Light duty:

120% for 60sec

Normal duty:

120% for 60sec

160% for 3sec



▶ I/O terminals

- **10** MI
- **3** AI
- Optional I/O extension cards
- **2** AO
- **3** relay



▶ Built-in STO SIL2



▶ Mains Switch (Optional)

- Available for all IP55 models 0.75kW to 90kW
- Allows users to turn off the power easily during daily maintenance and does not require an additional breaker box



▶ LCD Keypad

- Quick setting for frequent use modes and facilitates the installation process
- Multi-row display, Intuitive operation, user friendly operation interface
- Parameter management and copy
- Real time clock
- Multi-language: English, Spanish, Portuguese, French, Russian, Turkish, Polish
- TP Editor for users to define the display on the screen of the keypad



Create homepage logo



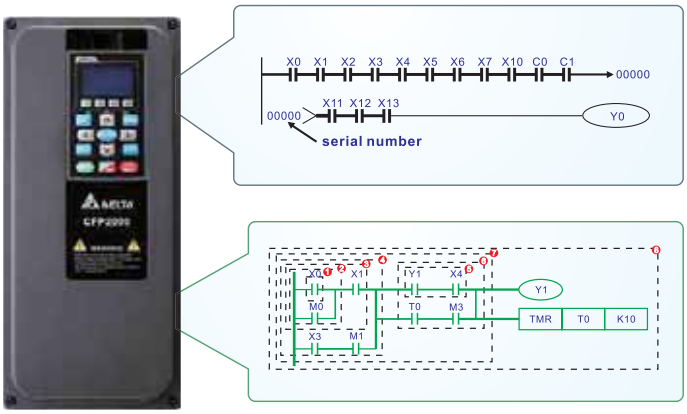
Editable message display



Features

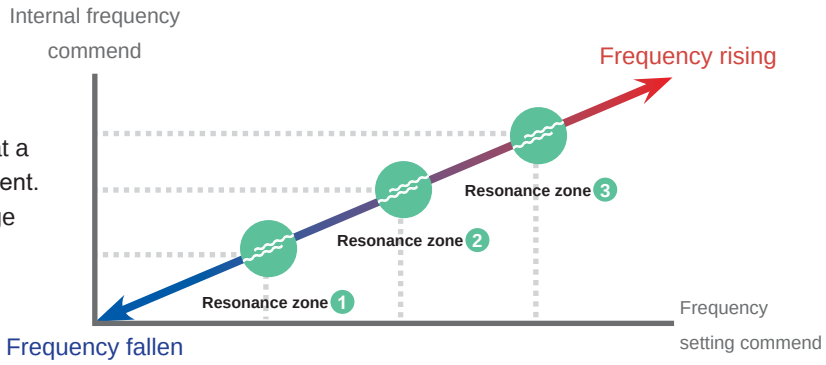
Built-in PLC Function

- Built-in 10 k steps PLC function supports independent and distributed control when connecting to a network system for high operation flexibility.
- Real Time Clock (RTC) function facilitates the PLC program writing process for ON/OFF chronology, daylight savings operation and many other settings.



Skip Frequency

- Skip Frequency function avoids motor vibration at a specific frequency band and protects the equipment. User can restrict up to 3 zones of frequency range



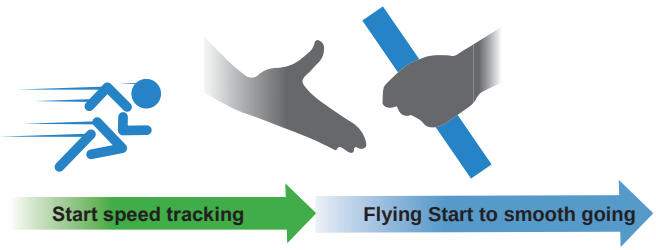
Fire Mode

- Application: ventilation of buildings, tunnels, subways and more
- The drive will bypass the alarm warning in fire mode. When a fire occurs, it forces the drive to continue to operate to extract smoke or supplies water until the drive fails or runs out of emergency power
  - » Preset speed mode: set the drive to continue to operate under a preset speed
  - » BYPASS mode: the AC Mains Bypass breaker will bypass the drive and connect to the emergency power
  - » Fire mode with PID control: it balances the pressure between the stairwell and fire location to ensure the fire door can be easily opened



▶ Flying Start

- Ensures the drive runs smoothly under high inertial load without triggering the alarm, does not require the motor to stop
- When the drive restarts after momentary power loss (within 5s on LV), the speed searching allows the drive to activate flying start immediately and ensure a stable operation of the system without requiring the motor to fully stop in order to save time

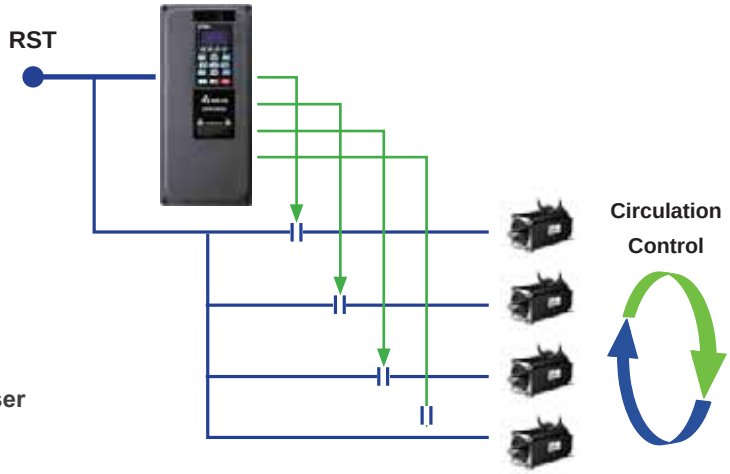


▶ Multi-pumps control

Built-in various modes for multi-pump control

- Fixed time circulation (by time)
- Fixed amount circulation (by PID)
- Fixed amount control (by PID)
- Fixed time circulation + fixed amount circulation
- Fixed time circulation + fixed amount control

Built-in 10k steps PLC function and RTC for user to program a time sequence control



▶ Parameter groups

Without parameter group.....



CFP2000 parameter group function simplifies the drive setting procedures. Various applications are provided:

01 : User Defined

02 : AHU

03 : Fan

04 : Pump

05 : Compressor





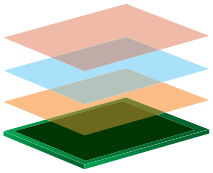
Operating Environment

Enhanced PCB coating

Standard:

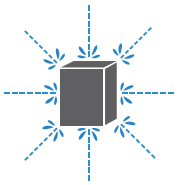
IEC 60721-3-3 class 3C3

Protects PCB from gases such as salt, SO2, O3, H2S, and others to extend the product life when used in a water treatment application



Protection class

IP55 NEMA12



Water Resistant



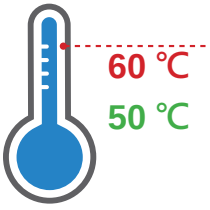
Dust Resistant



Operation temperature

Up to **50 ℃** without derating

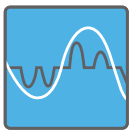
Up to **60 ℃** with derating



Built-in DC choke

Suppress harmonics

THDi < 48%



EN61000-3-12

Built EMC filter

EN61800-3 C2 & C1*



*A zero phase reactor is required to fulfill EMC category C1

Environment for Operation, Storage and Transportation

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

Ambient Conditions	**Installation Location**	IEC60364-1/IEC60664-1 Pollution degree 2, indoor use only	
	Surrounding Temperature	Storage/Transportation	-25°C~+70°C
		Only allowed at non-condensation, non-frost, non-conductive environment.	
	Rated Humidity	Operation	Max. 95%
		Storage/Transportation	Max. 95%
		Only allowed at non-condensation, non-frost, non-conductive environment.	
	Air Pressure	Operation/Storage	86 to 106 kPa
		Transportation	70 to 106 kPa
	Environment	IEC60721-3-3	
		Operation	Class 3C3; Class 3S2
		Storage	Class 1C2; Class 1S2
		Transportation	Class 2C2; Class 2S2
		Only allowed at non-condensation, non-frost, non-conductive environment.	
	Altitude	Operation	If the AC motor drive is installed at altitude 0~1000 m, follow normal operation restrictions. If it is installed at an altitude of 1000~3000 m, decrease 1% of rated current or lower 0.5°C of temperature for every 100m increase in altitude. Maximum altitude for Corner Grounded TN Systems is 2000 m.
Package Drop		Storage/Transportation	IEC60068-2-64
Vibration		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	Protection Level	OperationTemperature
VFDxxxxFPxxx-52	Frame A ~ D: 0.75~90 kW	IP55/NEMA12	-10 °C ~ 50 °C

Specifications

Frame Size			A							B				C		D0		D	
Models VFD-____FP4E-__			007	015	022	037	040	055	075	110	150	185	220	300	370	450	550	750	900
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	120	143
		Rated Output Current (A)	3	4.2	5.5	8.5	10.5	13	18	24	32	38	45	60	73	91	110	150	180
		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	75	90
		Applicable Motor Output (HP)	1	2	3	5	5	7.5	10	15	20	25	30	40	50	60	75	100	125
		Overload Tolerance	120% for 60 seconds in every 5 minutes																
	NORMAL DUTY	Rated Output Capacity (kVA)	1.4	2.4	3.2	4.8	7.2	8.4	10	14	19	25	30	36	48	58	73	88	120
		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	150
		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	75
		Applicable Motor Output (HP)	0.5	1	2	3	5	5	7.5	10	15	20	25	30	40	53	60	75	100
		Overload Tolerance	120% for 60 seconds in every 5 minutes 160% for 3 seconds in every 25 seconds																
INPUT RATING	Max. Output Frequency (Hz)		599.00 Hz																
	Carrier Frequency (kHz)		2 ~ 15 kHz (default setting 6 kHz)											2 ~ 10 kHz (default setting 6 kHz)*1					
	Input Current (A) Light Duty		3.0	4.2	5.5	8.5	10.5	13	18	24	32	38	45	60	73	91	110	150	180
	Input Current (A) Normal Duty		1.7	3.0	4.0	6.0	9.0	10.5	12	18	24	32	38	45	60	73	91	110	150
	Rated Voltage/Frequency		3-phase AC 380 V ~ 480 V (-15% ~ +10%), 50/60 Hz																
	Operating Voltage Range		323 ~ 528 V_{AC}																
	Frequency Tolerance		47 ~ 63 Hz																
Drive Weight			6.8 kg							14.5 kg				26.5 kg		42 kg		59.5 kg	
Cooling Method			Natural cooling	Fan cooling															
Braking Chopper			Frame A, B, C, Built-in																
DC Choke			Built-in DC choke meets EN6100-3-12																
EMC Filter			Built-in EMC filter meets EN61800-3 C2 & C1*																

*1 The carrier frequency range of VFD900FP4EA-xx is 2 ~ 9 kHz, default setting 6 kHz
*2 A zero phase reactor is required to fulfill EMC category C1

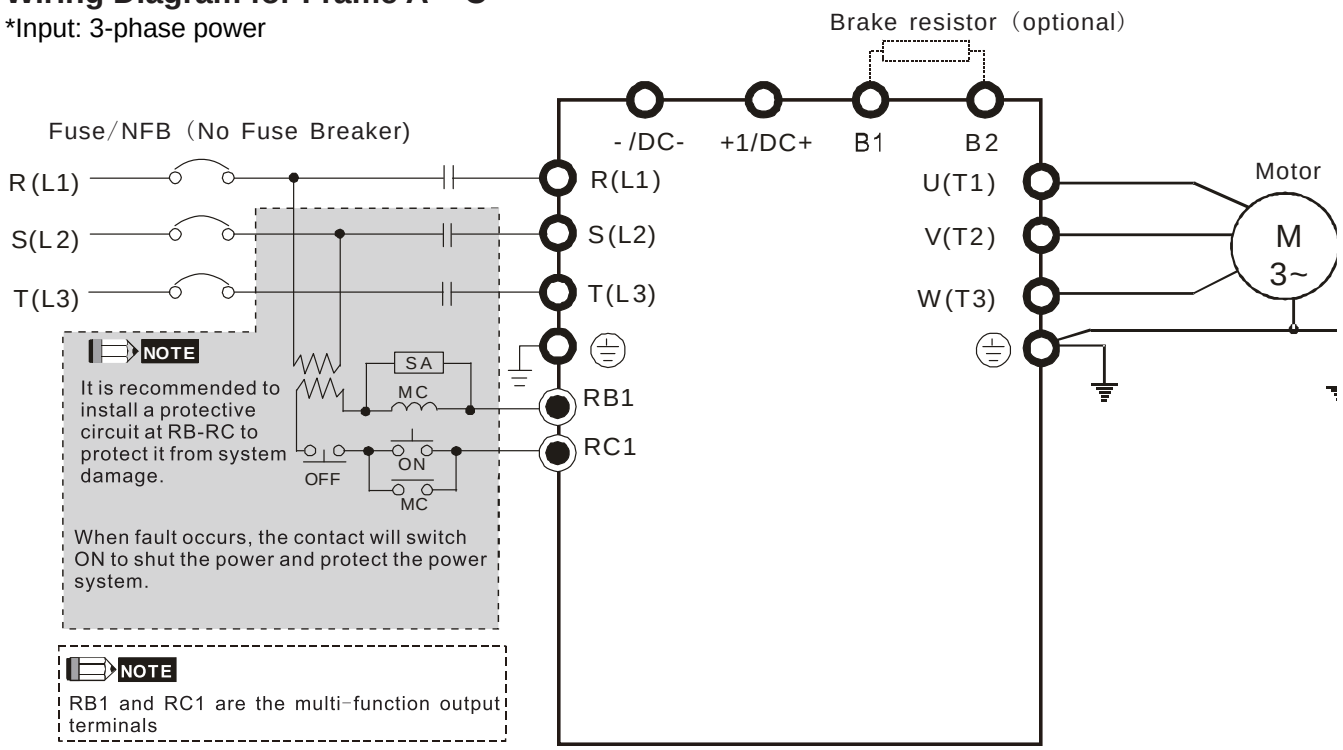
General Specifications

CONTROL CHARACTERISTICS	**Control Method**	Pulse Width Modulated (PWM)				
	Control Mode	1: V/F (V/F control), 2: SVC (Sensorless Vector Control), 3: PMSVC				
	Starting Torque	V/F and SVC: starting torque 160% at 0.5Hz PMSVC: starting torque 100% at rated frequency* 1/20				
	V/F Curve	4 point adjustable V/F curve and square curve				
	Speed Response Ability	5 Hz				
	Torque Limit	Light Duty: Max. 130% torque current; Normal Duty: Max. 160% torque current				
	Torque Accuracy	±5%				
	Max. Output Frequency (Hz)	599.00 Hz				
	Frequency Output Accuracy	Digital command: ±0.01%, Analog command: ±0.1%				
	Output Frequency Resolution	Digital command: 0.01 Hz; Analog command: Max. output frequency x 0.03/60 Hz (±11-bit)				
	Overload Tolerance	Light duty: 120% of rated current for 1 minute Normal duty: 120% of rated current for 1 minute; 160% of rated current for 3 seconds				
	Frequency Setting Signal	0~+10 V, 4~20 mA, 0~20 mA, pulse input				
	Accel./decel. Time	0.00 ~ 600.00/0.0 ~ 6000.0 seconds				
	Main Control Function	Fault restart	Torque limit	Smart stall	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/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	16-step speed (max.)
		Over-torque detection		MODBUS communication (RS-485 RJ45, Max. 115.2 kbps)		
	Fan Control	VFD300FP4E and above are PWM control VFD220FP4E and below are on/off switch control				
PROTECTION CHARACTERISTICS	**Motor Protection**	Electronic thermal relay protection				
	Over-Current Protection	Light duty: Over-current protection for 200% rated current, Normal duty: Over-current protection for 240% rated current, Current clamp (Light duty: 130~135%) (Normal duty: 170~175%)				
	Over-Voltage Protection	Drive will stop when DC-BUS voltage exceeds 820 V				
	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				
International Certifications						

Wiring

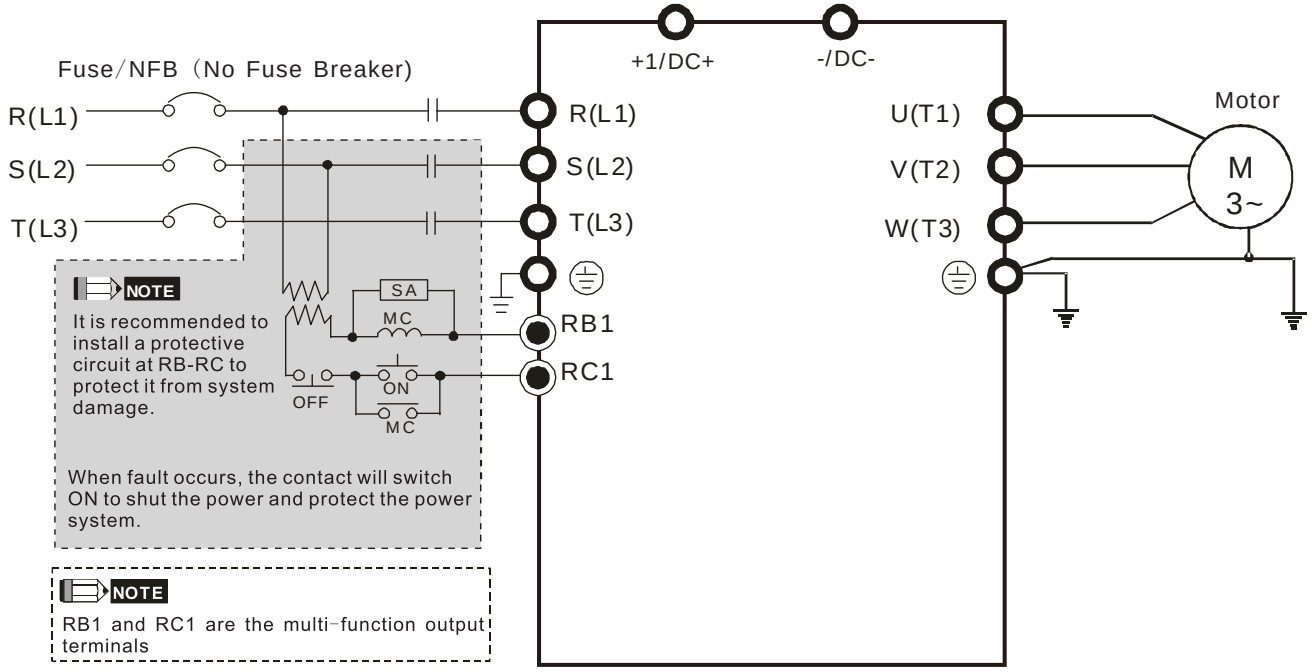
Wiring Diagram for Frame A ~ C

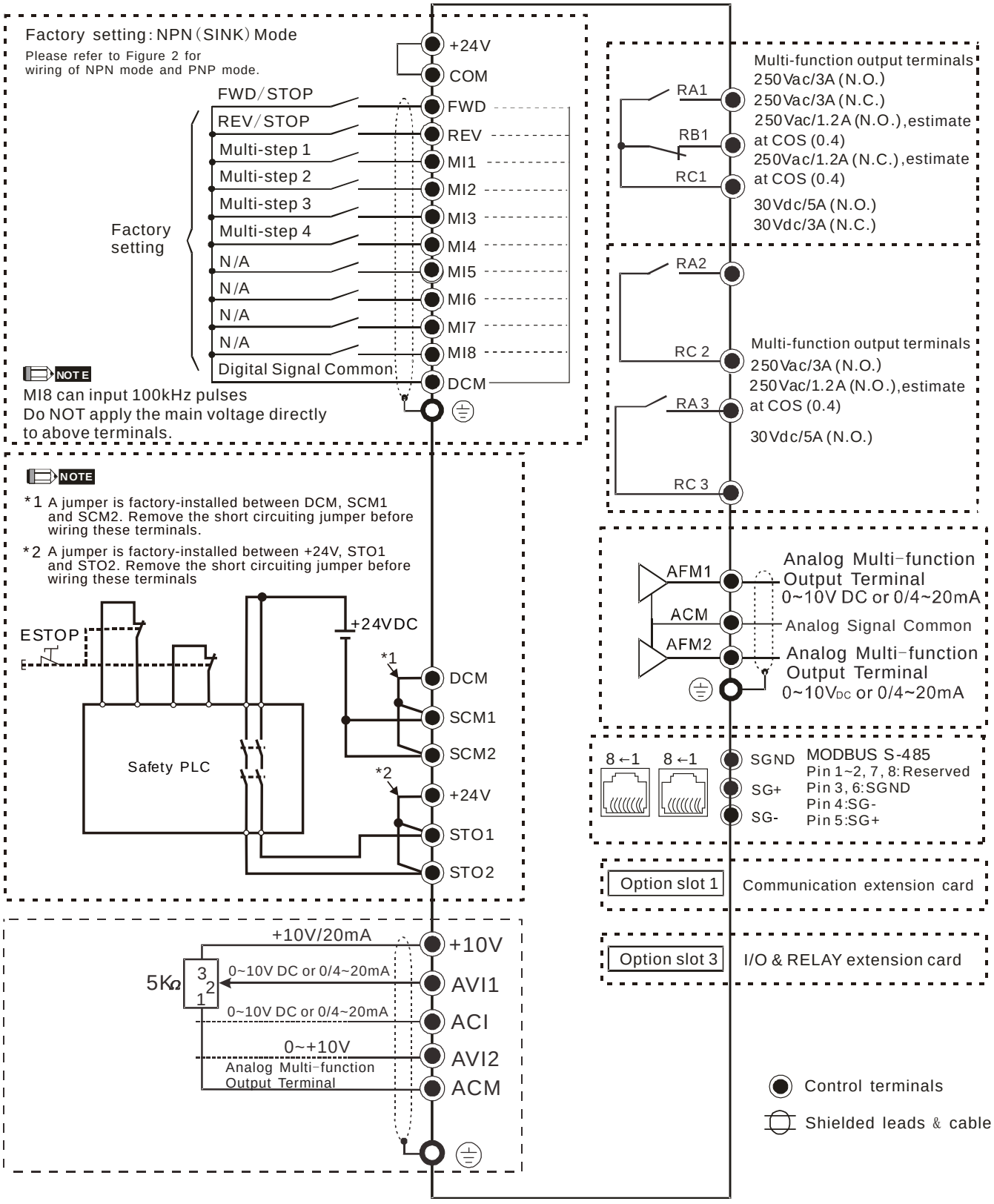
*Input: 3-phase power



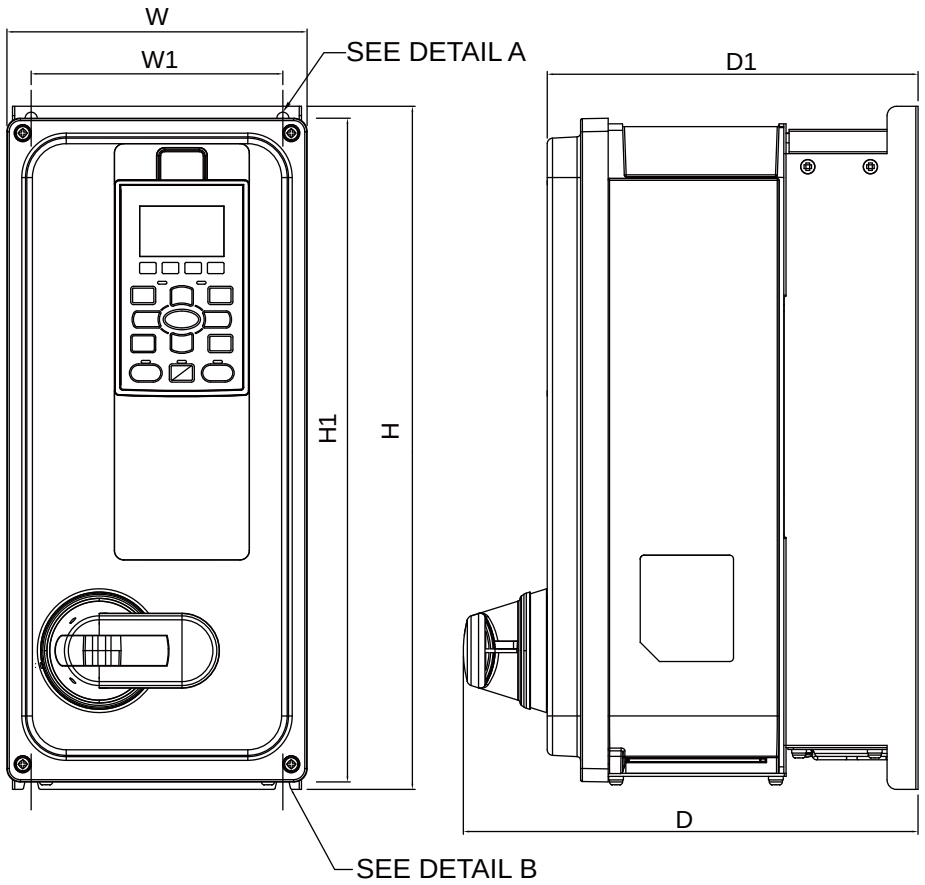
Wiring Diagram for Frame D0 ~ above

*Input: 3-phase power




Factory setting: NPN (SINK) Mode
Please refer to Figure 2 for wiring of NPN mode and PNP mode.
FWD/STOP
REV/STOP
Multi-step 1
Multi-step 2
Multi-step 3
Multi-step 4
N/A
N/A
N/A
N/A
Digital Signal Common
Factory setting
+24V
COM
FWD
REV
MI1
MI2
MI3
MI4
MI5
MI6
MI7
MI8
DCM
NOTE
MI8 can input 100kHz pulses
Do NOT apply the main voltage directly to above terminals.
Multi-function output terminals
250Vac/3A (N.O.)
250Vac/3A (N.C.)
250Vac/1.2A (N.O.),estimate at COS (0.4)
250Vac/1.2A (N.C.),estimate at COS (0.4)
30Vdc/5A (N.O.)
30Vdc/3A (N.C.)
RA1
RB1
RC1
RA2
RC 2
RA 3
RC 3
Multi-function output terminals
250Vac/3A (N.O.)
250Vac/1.2A (N.O.),estimate at COS (0.4)
30Vdc/5A (N.O.)
NOTE
*1 A jumper is factory-installed between DCM, SCM1 and SCM2. Remove the short circuiting jumper before wiring these terminals.
*2 A jumper is factory-installed between +24V, STO1 and STO2. Remove the short circuiting jumper before wiring these terminals
ESTOP
+24VDC
*1
*2
Safety PLC
DCM
SCM1
SCM2
+24V
STO1
STO2
AFM1
ACM
AFM2
Analog Multi-function Output Terminal
0~10V DC or 0/4~20mA
Analog Signal Common
Analog Multi-function Output Terminal
0~10VDC or 0/4~20mA
8←1
8←1
SGND
SG+
SG-
MODBUS S-485
Pin 1~2, 7, 8: Reserved
Pin 3, 6:SGND
Pin 4:SG-
Pin 5:SG+
Option slot 1
Communication extension card
Option slot 3
I/O & RELAY extension card
+10V/20mA
5KΩ
3
2
1
0~10V DC or 0/4~20mA
0~10V DC or 0/4~20mA
0~+10V
Analog Multi-function Output Terminal
+10V
AVI1
ACI
AVI2
ACM
Control terminals
Shielded leads & cable

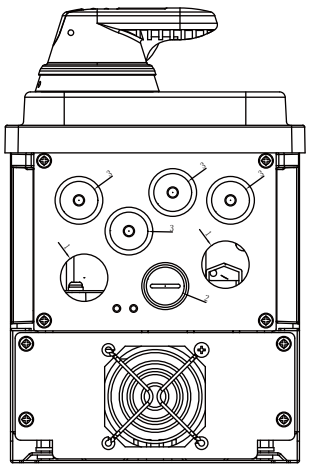
Dimensions

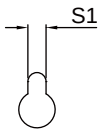


MODEL
FRAME_A

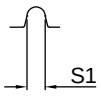
FRAME_A-1
VFD007FP4EA-52
VFD015FP4EA-52
VFD022FP4EA-52
VFD037FP4EA-52
VFD040FP4EA-52
VFD055FP4EA-52
VFD075FP4EA-52

FRAME_A-2
VFD007FP4EA-52S
VFD015FP4EA-52S
VFD022FP4EA-52S
VFD037FP4EA-52S
VFD040FP4EA-52S
VFD055FP4EA-52S
VFD075FP4EA-52S



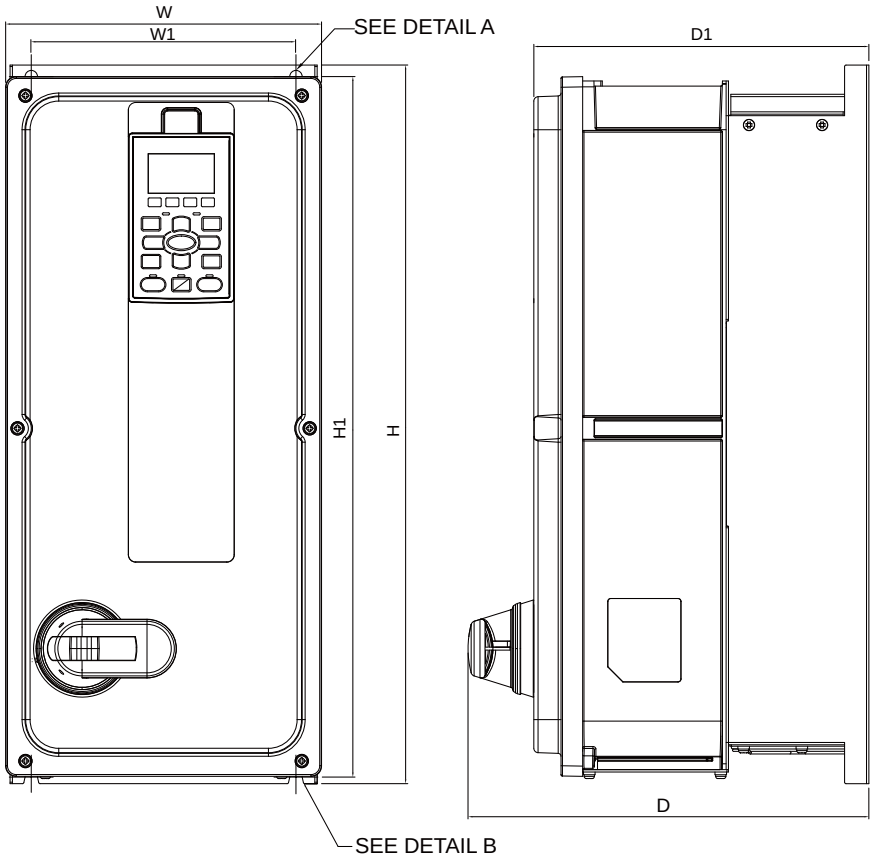


DETAIL A
(MOUNTING HOLE)



DETAIL B
(MOUNTING HOLE)

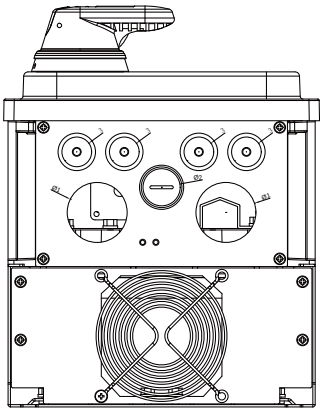
FRAME		W	H	D	W1	H1	D1	S1	Ø1	Ø2	Ø3
A-1	mm	161.0	336.4	-	135.0	356.0	199.0	6.5	25.4	20.3	20.3
	inch	6.34	14.43	-	5.31	14.02	7.83	0.26	1.00	0.80	0.80
A-2	mm	161.0	336.4	244.0	135.0	356.0	199.0	6.5	25.4	20.3	20.3
	inch	6.34	14.43	9.61	5.31	14.02	7.83	0.26	1.00	0.80	0.80

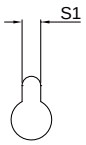


MODEL
FRAME_B

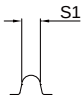
FRAME_B-1
VFD110FP4EA-52
VFD150FP4EA-52
VFD185FP4EA-52
VFD220FP4EA-52

FRAME_B-2
VFD110FP4EA-52S
VFD150FP4EA-52S
VFD185FP4EA-52S
VFD220FP4EA-52S





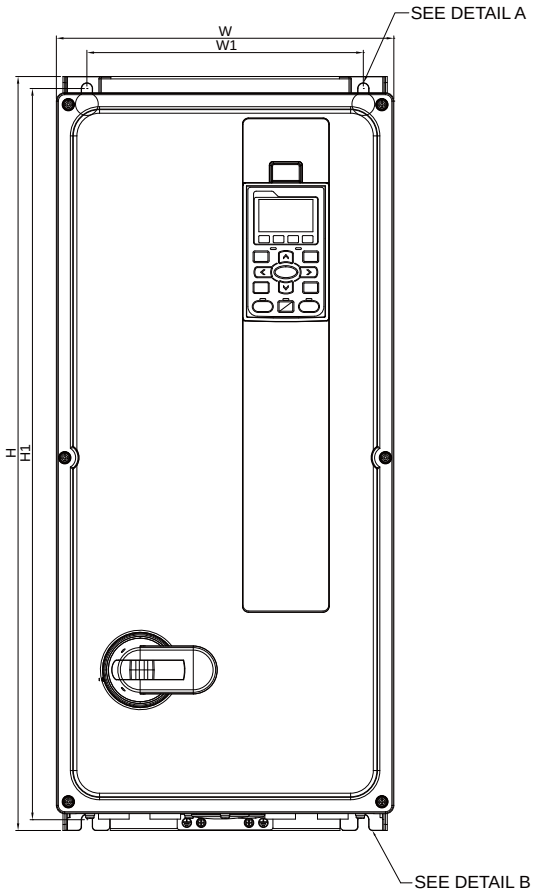
DETAIL A
(MOUNTING HOLE)

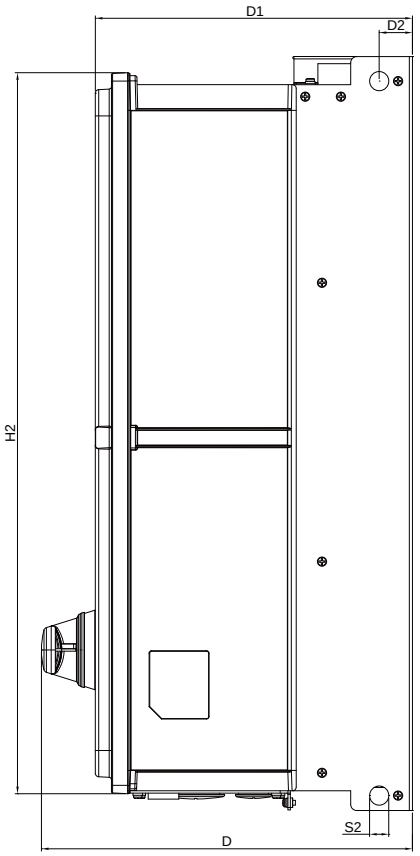


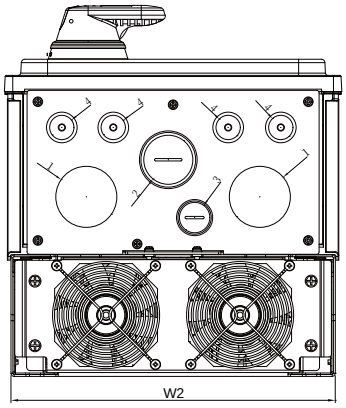
DETAIL B
(MOUNTING HOLE)

FRAME		W	H	D	W1	H1	D1	S1	Ø1	Ø2	Ø3
B-1	mm	216.0	491.4	-	181.0	479.0	229.0	8.5	41.0	25.4	20.3
	inch	8.50	19.35	-	7.13	18.86	9.02	0.33	1.61	1.00	0.80
B-2	mm	216.0	491.4	274.0	181.0	479.0	229.0	8.5	41.0	25.4	20.3
	inch	8.50	19.35	10.79	7.13	18.86	9.02	0.33	1.61	1.00	0.80

Dimensions









DETAIL A
(MOUNTING HOLE)



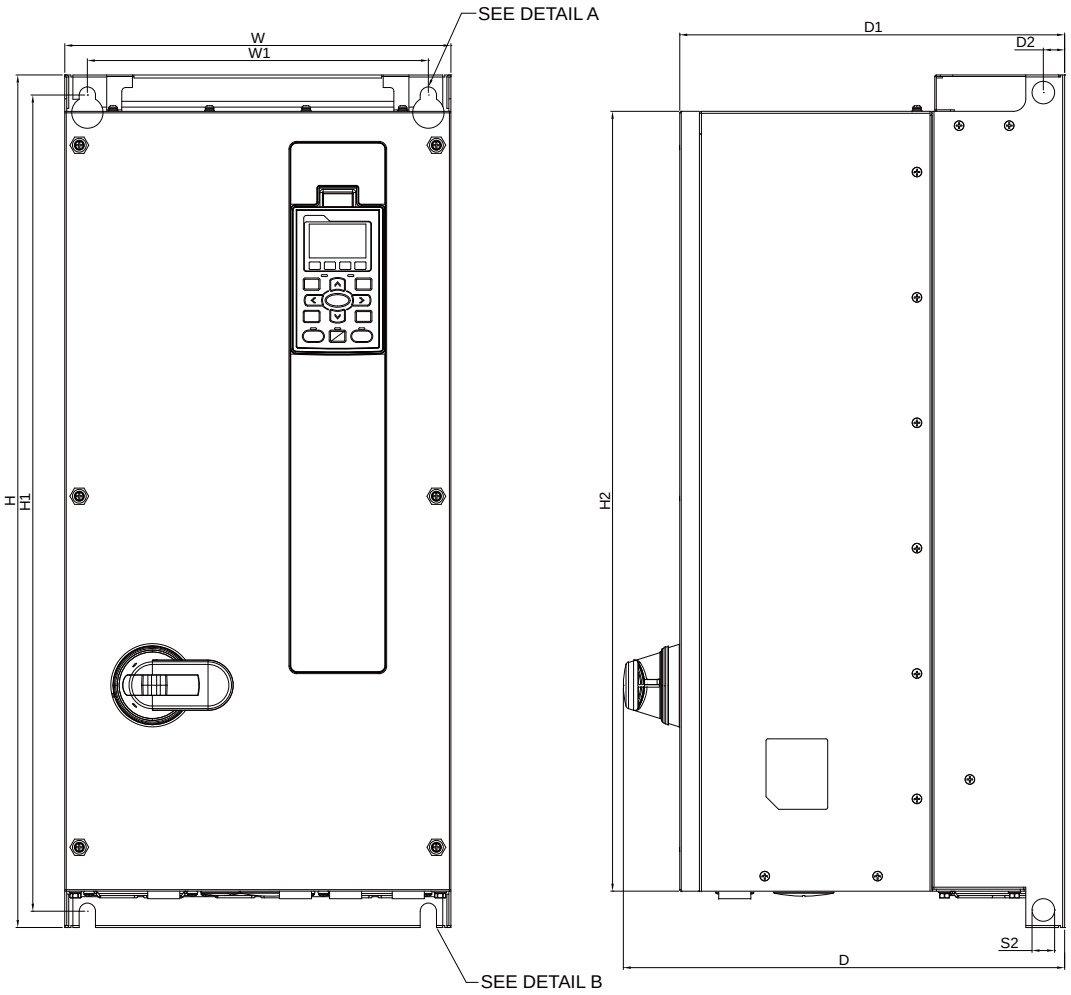
DETAIL B
(MOUNTING HOLE)

MODEL
FRAME_C

FRAME_C-1
VFD300FP4EA-52
VFD370FP4EA-52

FRAME_C-2
VFD300FP4EA-52S
VFD370FP4EA-52S

FRAME		W	H	D	W1	H1	D1	S1	W2	H2	D2	S2	Ø1	Ø2	Ø3	Ø4
C-1	mm	282.0	630.0	-	231.0	611.0	265.0	9.0	271.0	602.5	27.8	16.0	51.0	41.0	25.4	20.3
	inch	11.10	24.80	-	9.09	24.06	10.43	0.35	10.67	23.72	1.09	0.63	2.01	1.61	1.00	0.80
C-2	mm	282.0	630.0	310.0	231.0	611.0	265.0	9.0	271.0	602.5	27.8	16.0	51.0	41.0	25.4	20.3
	inch	11.10	24.80	12.20	9.09	24.06	10.43	0.35	10.67	23.72	1.09	0.63	2.01	1.61	1.00	0.80



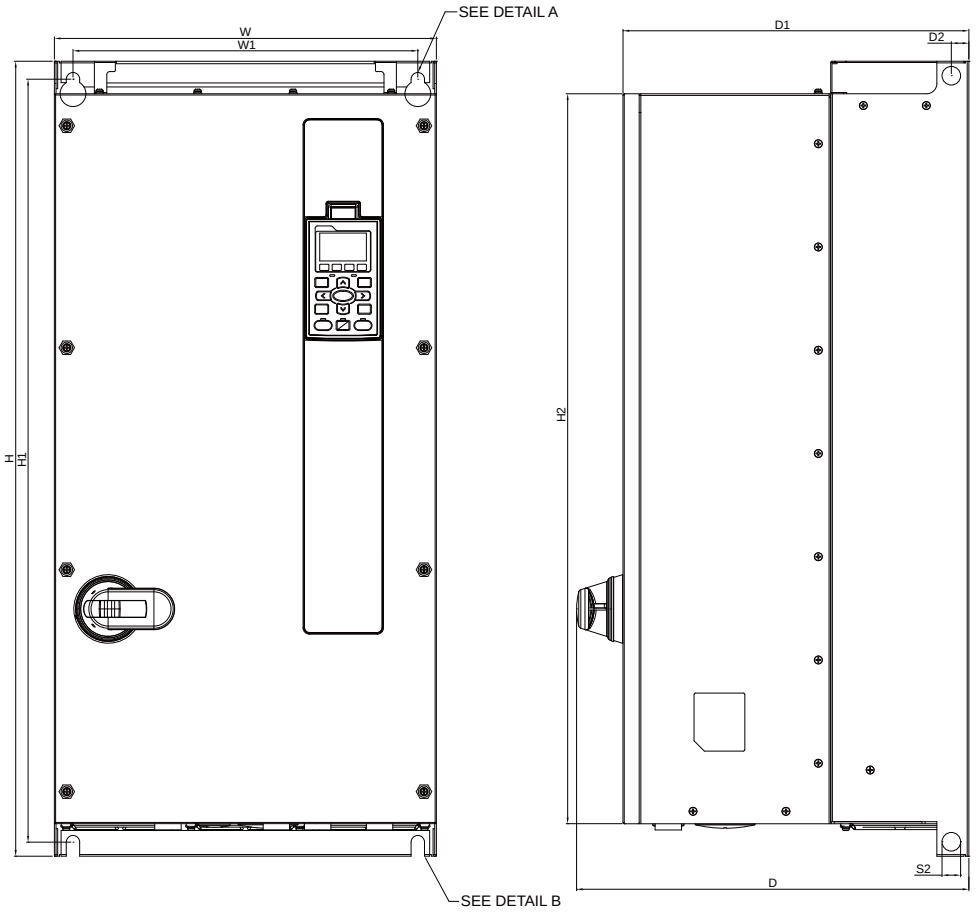
MODEL
FRAME_D0

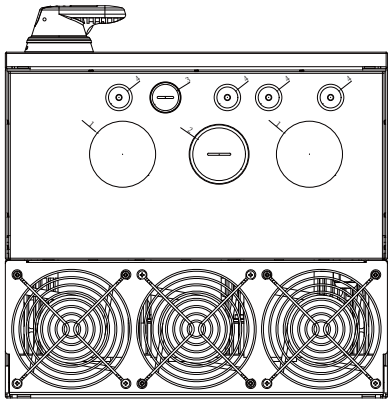
FRAME_D0-1
VFD450FP4EA-52
VFD550FP4EA-52

FRAME_D0-2
VFD450FP4EA-52S
VFD550FP4EA-52S

FRAME		W	H	D	W1	H1	D1	S1	H2	D2	S2	Ø1	Ø2	Ø3	Ø4
D0-1	mm	308.0	680.0	-	272.0	651.0	307.0	13.0	622.0	17.0	18.0	51.0	41.0	25.4	20.3
	inch	12.13	26.77	-	10.71	25.63	12.09	0.51	24.49	0.67	0.71	2.01	1.61	1.00	0.80
D0-2	mm	308.0	680.0	352.0	272.0	651.0	307.0	13.0	622.0	17.0	18.0	51.0	41.0	25.4	20.3
	inch	12.13	26.77	13.86	10.71	25.63	12.09	0.51	24.49	0.67	0.71	2.01	1.61	1.00	0.80

Dimensions







DETAIL A
(MOUNTING HOLE)



DETAIL B
(MOUNTING HOLE)

MODEL
FRAME_D

FRAME_D-1
VFD750FP4EA-52
VFD900FP4EA-52

FRAME_D-2
VFD750FP4EA-52S
VFD900FP4EA-52S

FRAME		W	H	D	W1	H1	D1	S1	H2	D2	S2	Ø1	Ø2	Ø3	Ø4
D-1	mm	370.0	770.0	-	334.0	739.0	335.0	13.0	707.0	17.0	18.0	64.0	51.0	25.4	20.3
	inch	14.57	30.31	-	13.15	29.09	13.19	0.51	27.83	0.67	0.71	2.52	2.01	1.00	0.80
D-2	mm	370.0	770.0	380.0	334.0	739.0	335.0	13.0	707.0	17.0	18.0	64.0	51.0	25.4	20.3
	inch	14.57	30.31	14.96	13.15	29.09	13.19	0.51	27.83	0.67	0.71	2.52	2.01	1.00	0.80

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Accessories

▪ EMC-D42A



I/O Extension Card

Terminals	Descriptions
COM	Common for multi-function input terminals Select SINK (NPN) / SOURCE (PNP) in J1 jumper / external power supply
MI10 ~ MI13	Refer to parameters 02-26 ~ 02-29 to program the multi-function inputs MI10 ~ MI13. Internal power is applied from terminal E24: +24 V_{DC} ± 5% 200 mA, 5 W External power +24 V_{DC}: max. voltage 30 V_{DC}, min. voltage 19 V_{DC}, 30 W ON: the activation current is 6.5 mA; OFF: leakage current tolerance is 10 μA
MO10 ~ MO11	Multi-function output terminals (photocoupler) Duty-cycle: 50%; Max. output frequency: 100 Hz Max. current: 50 mA; Max. voltage: 48 V_{DC}
MXM	Common for multi-function output terminals MO10, MO11 (photocoupler) Max 48 V_{DC} 50 mA

▪ EMC-D611A



I/O Extension Card

Terminals	Descriptions
AC	AC power common for multi-function input terminal (Neutral)
MI10 ~ MI15	Refer to Pr. 02.26 ~ Pr. 02.31 for multi-function input selection Input voltage: 100 ~ 130 V_{AC}; Input frequency: 57 ~ 63 Hz Input impedance: 27 KΩ Terminal response time: ON: 10 ms; OFF: 20 ms

▪ EMC-R6AA



Relay
Extension Card

Terminals	Descriptions
RA10 ~ RA15 RC10 ~ RC15	Refer to Pr. 02.36 ~ Pr. 02.41 for multi-function input selection Resistive load: 3A (N.O.) / 250 V_{AC} 5A (N.O.) / 30 V_{DC} Inductive load (COS 0.4) 2.0A (N.O.) / 250 V_{AC} 2.0A (N.O.) / 30 V_{DC} It is used to output each monitor signal, such as for drive in operation, frequency attained or overload indication.

▪ EMC-BPS01



24V Power
Shift Card

Terminals	Descriptions
24V GND	When the AC motor drive power is off, the external power supply card provides external power to the network system, PLC function, and other functions to allow continued operations. Input power: 24 V_{DC} ± 5% Maximum input current: 0.5A Note: Do not connect the control terminal +24 V (Digital control signal common: SOURCE) directly to the EMC-BPS01 input terminal 24 V. Do not connect control terminal GND directly to the EMC-BPS01 input terminal GND.

Screw Specifications for Option Card Terminals

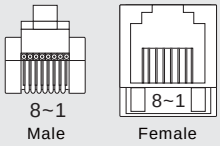
EMC-D42A / EMC-D611A EMC-BPS01	Wire gauge	24 ~ 12 AWG (0.205 ~ 3.31 mm^2)
	Torque	4 Kg-cm [3.47 lb-in]
EMC-R6AA	Wire gauge	24 ~ 16 AWG (0.205 ~ 1.31 mm^2)
	Torque	6 Kg-cm [5.21 lb-in]

Accessories

▪ EMC-COP01

RJ-45 Pin definition





Pin	Pin name	Definition
1	CAN_H	CAN_H bus line (dominant high)
2	CAN_L	CAN_L bus line (dominant low)
3	CAN_GND	Ground / 0 V / V-
6	CAN_GND	Ground / 0 V / V-

▪ CMC-MOD01



Network Interface

Features

- MDI / MDI-X auto-detect
- Supports MODBUS TCP protocol
- AC motor drive keypad / Ethernet configuration
- E-mail alarm
- Baud rate: 10 / 100 Mbps auto-detect
- Virtual serial port

Network Interface

Interface	RJ-45 with Auto MDI / MDIX	Transmission speed	10 / 100 Mbps Auto-Detect
Number of ports	1 Port	Network rotocol	ICMP, IP, TCP, UDP, DHCP, SMTP, MODBUS over TCP / IP, Delta Configuration
Transmission method	IEEE 802.3, IEEE 802.3u		
Transmission cable	Category 5e shielding 100 M		

▪ CMC-EIP01



Network Interface

Features

- MDI / MDI-X auto-detect
- Supports MODBUS TCP and Ethernet / IP protocol
- Baud rate: 10 / 100 Mbps auto-detect
- AC motor drive keypad / Ethernet configuration
- Virtual serial port

Network Interface

Interface	RJ-45 with Auto MDI / MDIX	Transmission speed	10 / 100 Mbps Auto-Detect
Number of ports	1 Port	Network protocol	ICMP, IP, TCP, UDP, DHCP, SMTP, MODBUS over TCP / IP, Delta Configuration
Transmission method	IEEE 802.3, IEEE 802.3u		
Transmission cable	Category 5e shielding 100 M		

▪ CMC-PD01



Features

- Supports PZD control data exchange
- Supports PKW polling AC motor drive parameters
- Supports user diagnosis function
- Auto-detects baud rates; supports Max. 12 Mbps

PROFIBUS DP Connector

Interface	DB9 connector
Transmission method	High-speed RS-485
Transmission cable	Shielded twisted pair cable
Electrical isolation	500 V_{DC}

Communication

Message type	Cyclic data exchange
Module name	CMC-PD01
GSD document	DELA08DB.GSD
Company ID	08DB (HEX)
Serial transmission speed supported (auto-detection)	9.6 kbps; 19.2 kbps; 93.75 kbps; 187.5 kbps; 125 kbps; 250 kbps; 500 kbps; 1.5 Mbps; 3 Mbps; 6 Mbps; 12 Mbps (bits per second)

▪ CMC-DN01



Features

- Based on the high-speed communication interface of Delta HSSP protocol, able to conduct immediate control of an AC motor drive
- Supports Group 2 only connection and polling I/O data exchange
- For I/O mapping, supports Max. 32 words of input and 32 words of output
- Supports EDS file configuration in DeviceNet configuration software
- Supports all baud rates on DeviceNet bus: 125 kbps, 250 kbps, 500 kbps and extendable serial transmission speed mode
- Node address and serial transmission speed can be set up on AC motor drive
- Power supplied from AC motor drive

DeviceNet Connector

Interface	5-Pin 5.08mm Pluggable Connector
Transmission method	CAN
Transmission cable	Shielded twisted pair cable (with 2 power cables)
Transmission speed	125 kbps, 250 kbps, 500 kbps and extendable serial transmission speed mode
Network protocol	DeviceNet protocol

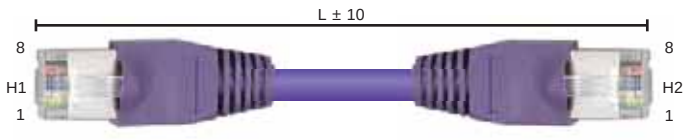
DeviceNet Connector

Interface	50 PIN communication terminal
Transmission method	SPI communication
Terminal function	1. Communicating with AC motor drive 2. Transmitting power supply from AC motor drive
Communication protocol	Delta HSSP protocol

Accessories

▪ CANopen Communication Cable

Model: TAP-CB05, TAP-CB10



Title	Part No.	L	
		mm	inch
1	UC-CMC003-01A	300	11.8
2	UC-CMC005-01A	500	19.6
3	UC-CMC010-01A	1000	39
4	UC-CMC015-01A	1500	59
5	UC-CMC020-01A	2000	78.7
6	UC-CMC030-01A	3000	118.1
7	UC-CMC050-01A	5000	196.8
8	UC-CMC100-01A	10000	393.7
9	UC-CMC200-01A	20000	787.4

▪ Digital Keypad Accessories: RJ45 Extension Leads and CMC-EIP01 Cables

Applicable Models: CBC-K3FT, CBC-K5FT, CBC-K7FT, CBC-K10F, CBC-K16FT

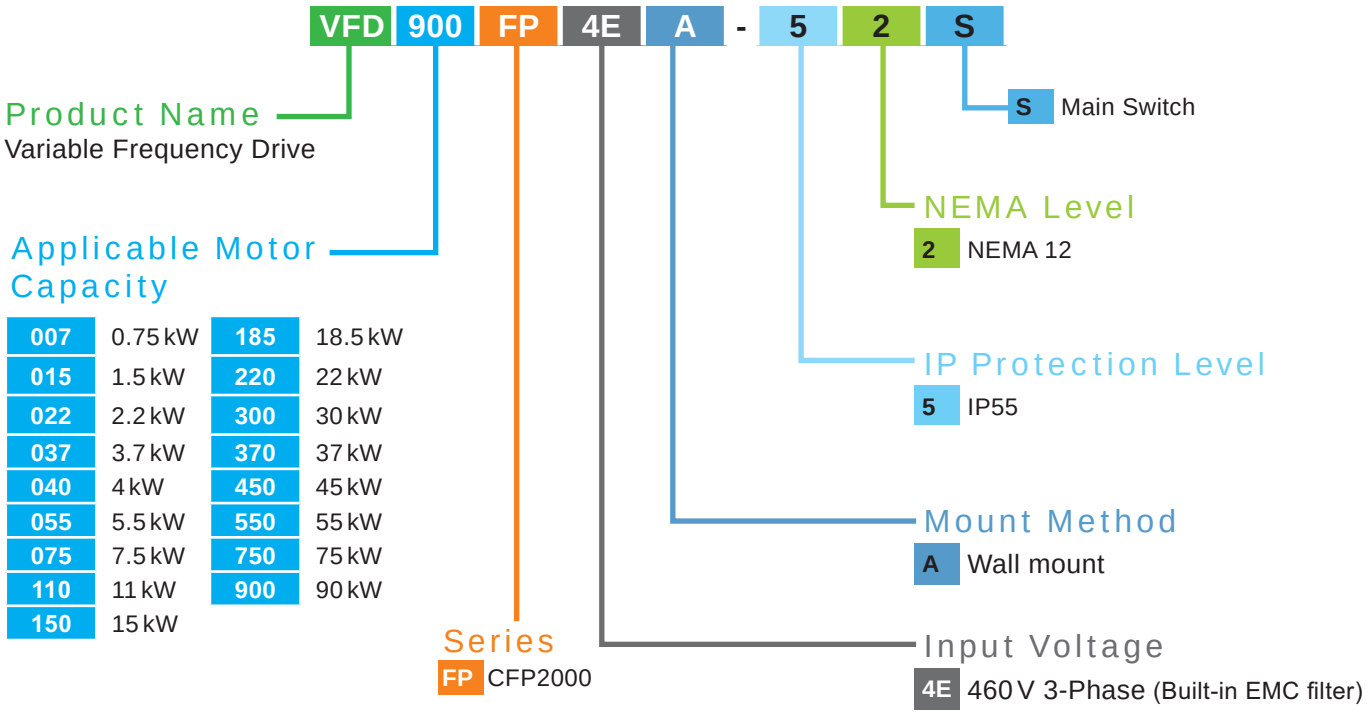
Title	Part No.	Explanation
1	CBC-K3FT	RJ45 extension lead, 3 feet (approximately 0.9 m)
2	CBC-K5FT	RJ45 extension lead, 5 feet (approximately 1.5 m)
3	CBC-K7FT	RJ45 extension lead, 7 feet (approximately 2.1 m)
4	CBC-K10FT	RJ45 extension lead, 10 feet (approximately 3 m)
5	CBC-K16FT	RJ45 extension lead, 16 feet (approximately 4.9 m)



Ordering Information

Power Range	FRAME	IP55	IP55 with Mains Switch
0.75	A	VFD007FP4EA-52	VFD007FP4EA-52S
1.5		VFD015FP4EA-52	VFD015FP4EA-52S
2.2		VFD022FP4EA-52	VFD022FP4EA-52S
3.7		VFD037FP4EA-52	VFD037FP4EA-52S
4		VFD040FP4EA-52	VFD040FP4EA-52S
5.5		VFD055FP4EA-52	VFD055FP4EA-52S
7.5		VFD075FP4EA-52	VFD075FP4EA-52S
11	B	VFD110FP4EA-52	VFD110FP4EA-52S
15		VFD150FP4EA-52	VFD150FP4EA-52S
18.5		VFD185FP4EA-52	VFD185FP4EA-52S
22		VFD220FP4EA-52	VFD220FP4EA-52S
30	C	VFD300FP4EA-52	VFD300FP4EA-52S
37		VFD370FP4EA-52	VFD370FP4EA-52S
45	D0	VFD450FP4EA-52	VFD450FP4EA-52S
55		VFD550FP4EA-52	VFD550FP4EA-52S
75	D	VFD750FP4EA-52	VFD750FP4EA-52S
90		VFD900FP4EA-52	VFD900FP4EA-52S

Model Name



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