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Delta IP55/IP41 Fan and Pump Drive CFP2000





Delta IP55/IP41 Fan and Pump Drive **CFP2000**



Application

HVAC



Fans

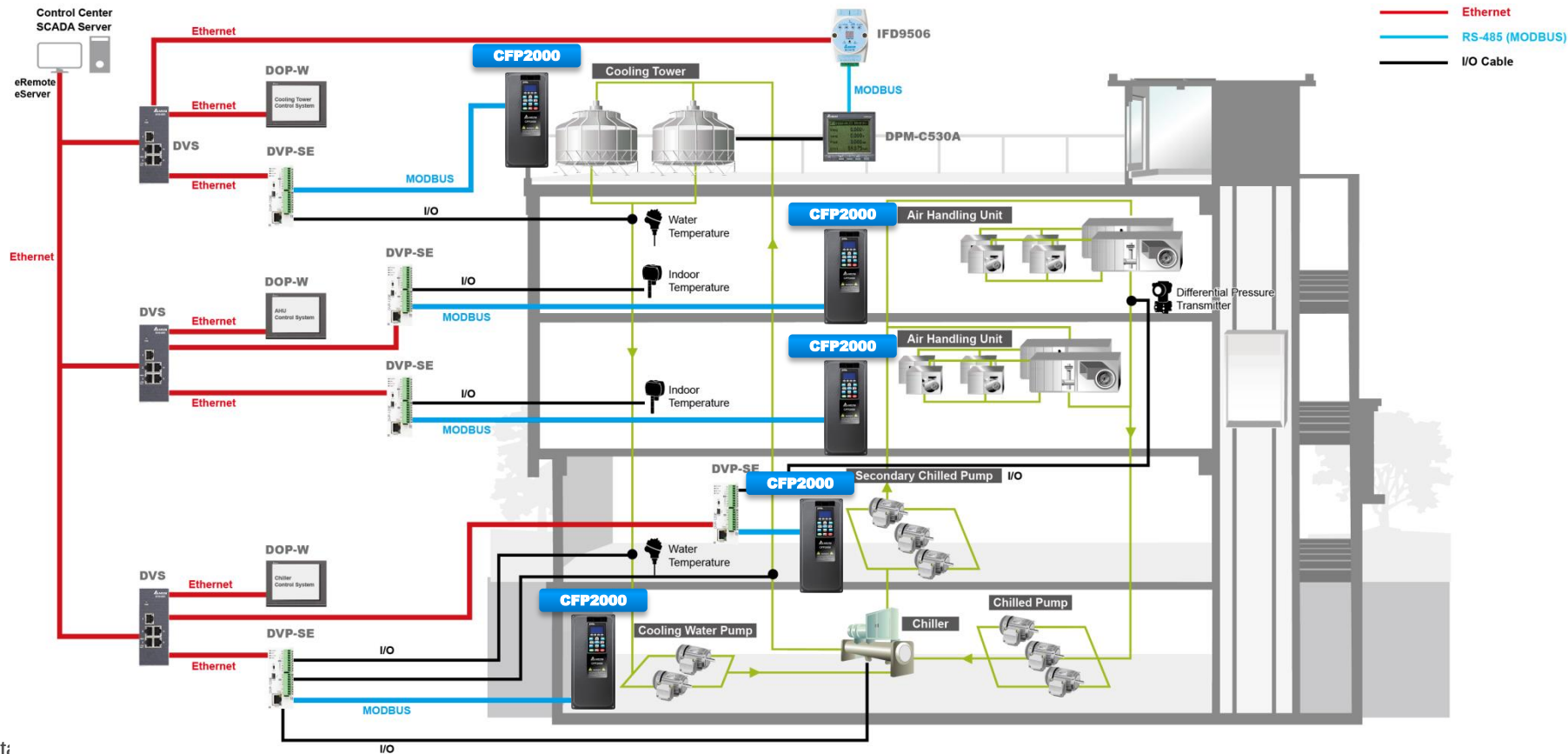


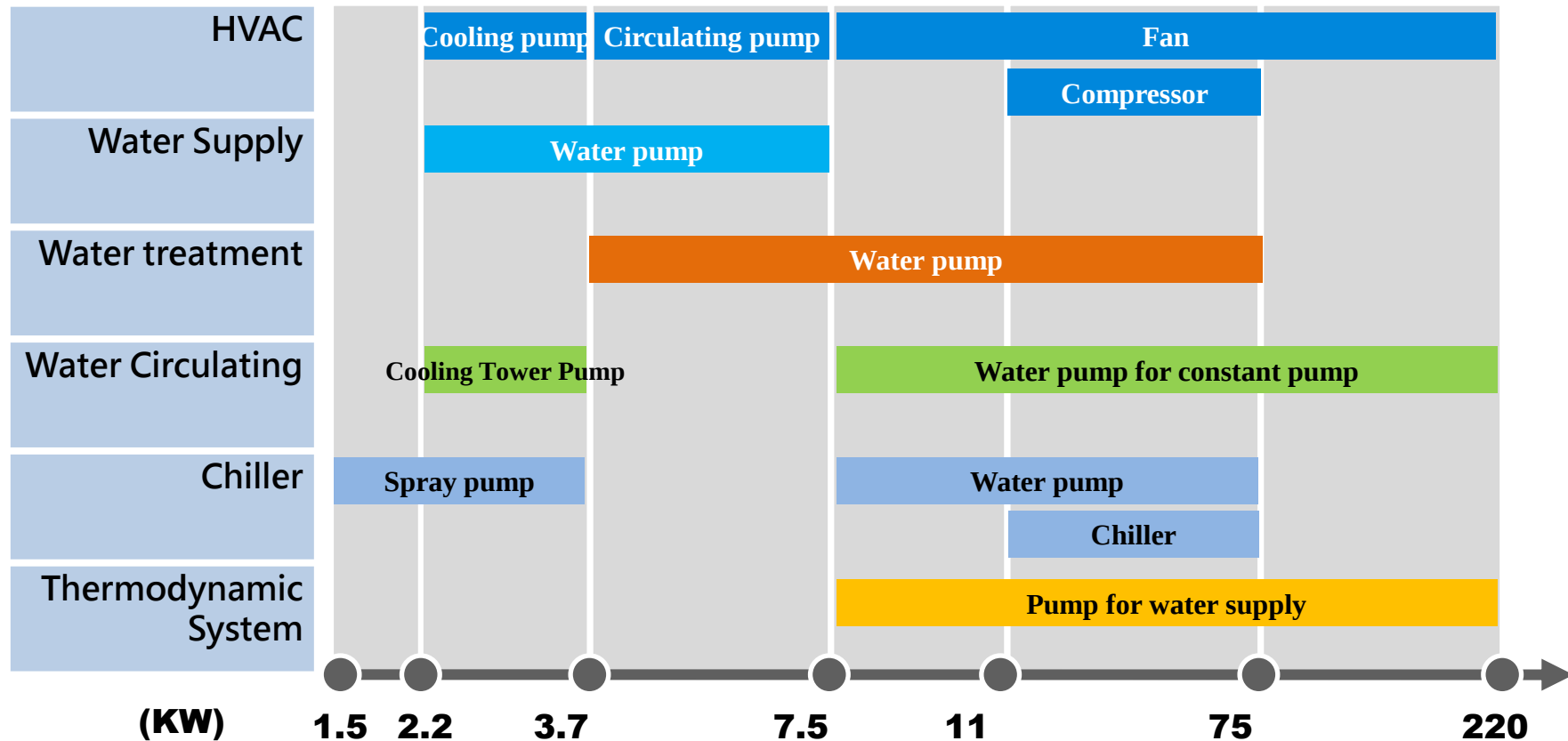
Chiller



Water
treatment







CFP2000 Features

Energy
saving

User
friendly

IP55

DC
choke

EMC
filter

Easy
installa
tion



Power range : AC 380 to 480V / 3 phase

kW	0.75	1.5	2.2	3.7	4	5.5	11	15	18.5	22
HP	1	2	3	5	5	7.5	15	20	25	30
Frame	A						B			

kW	30	37	45	55	75	90
HP	40	50	60	75	100	125
Frame	C		D0		D	



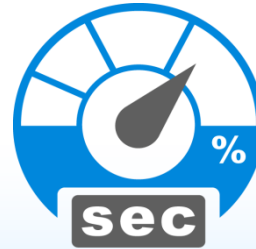
Features

- Motor controls:

IM and **PM** motors



- Overload ability



Light duty:

120% for **60sec**

Normal duty:

120% for **60sec**

160% for **3sec**

Features

- I/O terminals
 - 10 MI
 - 3 AI
 - I/O extension cards is available
- 2 AO
- 3 relay



- Built-in STO SIL2



Operating Environment

Features

- Protection class

IP41 NEMA1

IP55 NEMA12

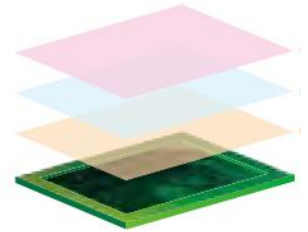


- Enhanced PCB coating

Standard:

IEC 60721-3-3

class 3C3



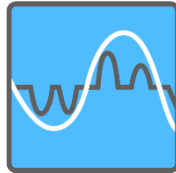
Protect PCB from gas such as salt, SO₂, O₃, H₂S, etc. to extend product life in water treatment application.

Operating Environment

Features

- Built-in DC choke

Ease Harmonic
THDi < 48%



EN61000-3-12

- Built EMC filter

EN61800-3 C2 & C1*

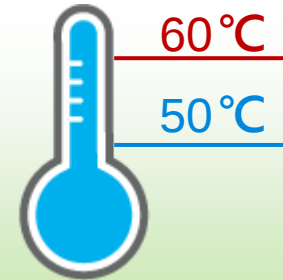


*It needs zero phase reactor for C1

- Operation temperature

Up to 50 °C **without derating**

Up to 60 °C **with derating**



Mains Switch (Option)

- Option Mains Switch for All power range of IP55 model- 0.75 to 90kW
- With the mains switch, user can turn off the power easily when daily maintenance and save an additional breaker box.

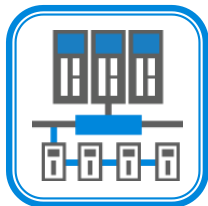


Features:

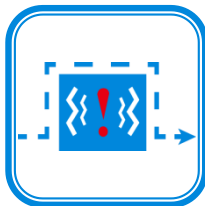
- Quick setting for user common usage, easy and fast to install.
- Multi-row display, Menu free, user friendly operation interface.
- Parameter management and copy
- Real time clock
- Multi-language: English, Spanish, Portuguese, French, Russian, Turkish, Poland
- TP Editor for user defining the display on the screen of keypad.



Use define



Fieldbus



Frequency
skip



Application
selection



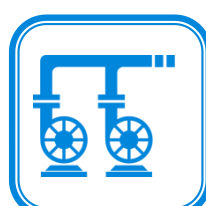
Real Time Clock



Fire mode



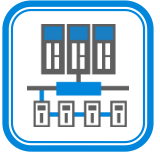
Flying start



Multi-pump

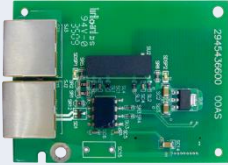


PLC (10k steps)



■ Built-in : MODBUS 、 BACnet MS/TP

■ Option card :

PROFIBUS	DeviceNet	CANopen	MODBUS TCP	EtherNet/IP
CMC-PD01	CMC-DN01	CMC-COP01	CMC-MOD01	CMC-EIP01
				

■ 24V Power shift card

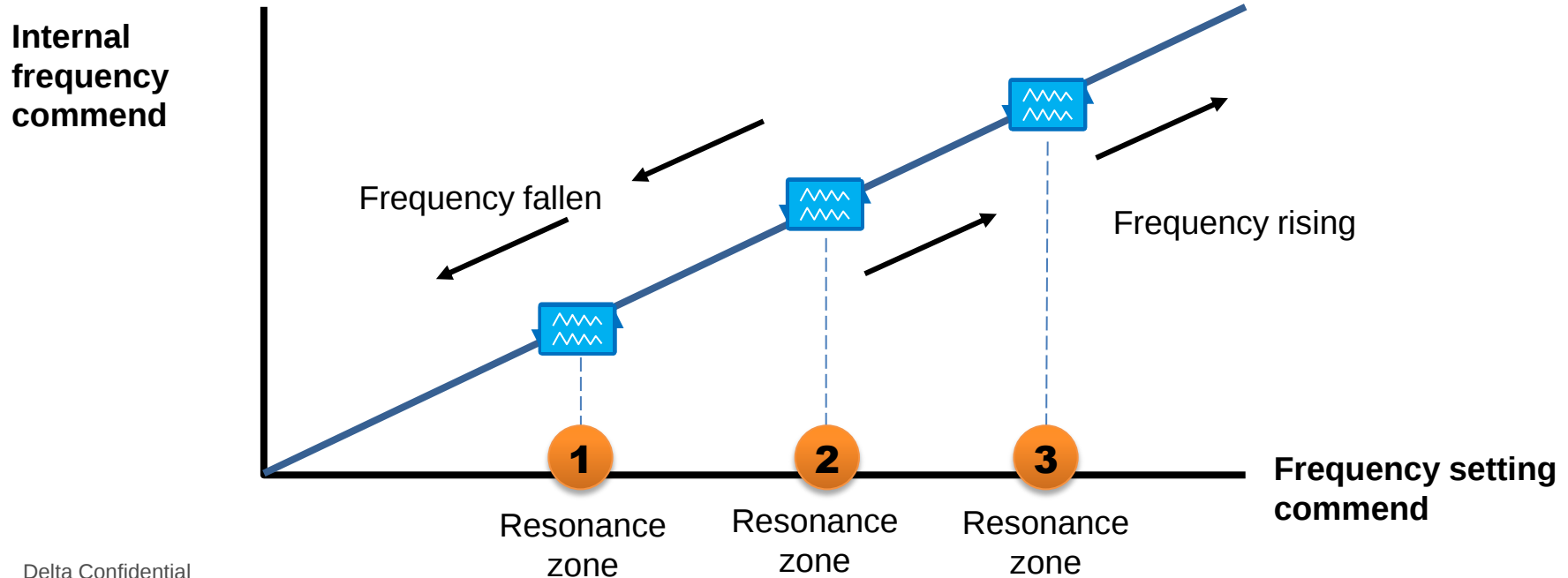
External power input: 24V

EMC-BPS01





- Frequency Skip function avoids the motor vibration at a specific frequency band and protects the equipment. It offers 3 zones for use.



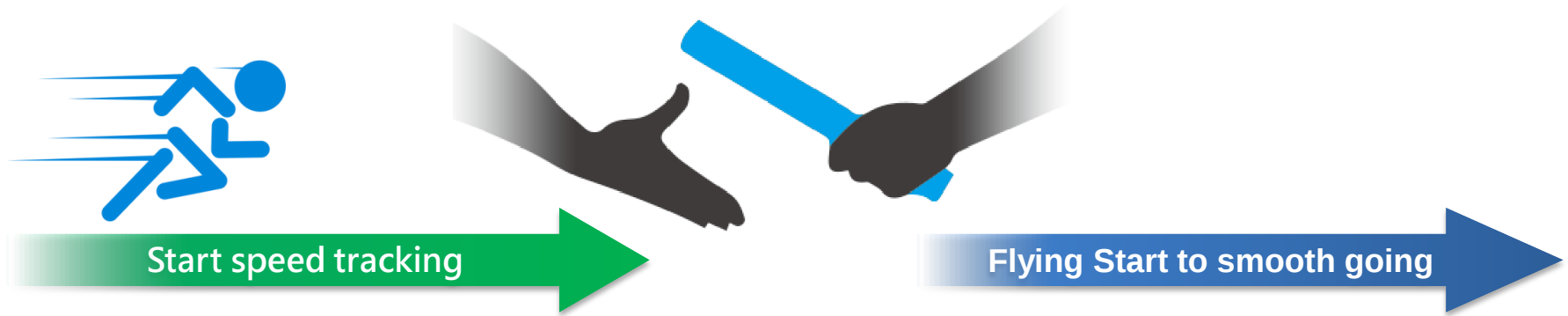


- Application: ventilating of building, tunnel, subway, etc.
- During fire mode the drive is forced operation. Exhausting smoke until drive failure or AC power shut down.
 - Keep running at preset speed in fire mode
 - BYPASS mode is selected to AC power (with ac Mains Bypass breaker).
 - Fire mode with PID control keeps the pressure balance between stairwell and fire place to make the fire door can be opened easily.



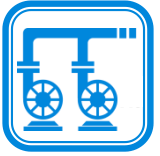


- Flying start function lets high inertial load situation can run smoothly in start without error happened. (No need to stop the motor)
- Momentary power off (within 5s on LV), the speed searching function can make the motor continue running without stopping the motor to save start time.





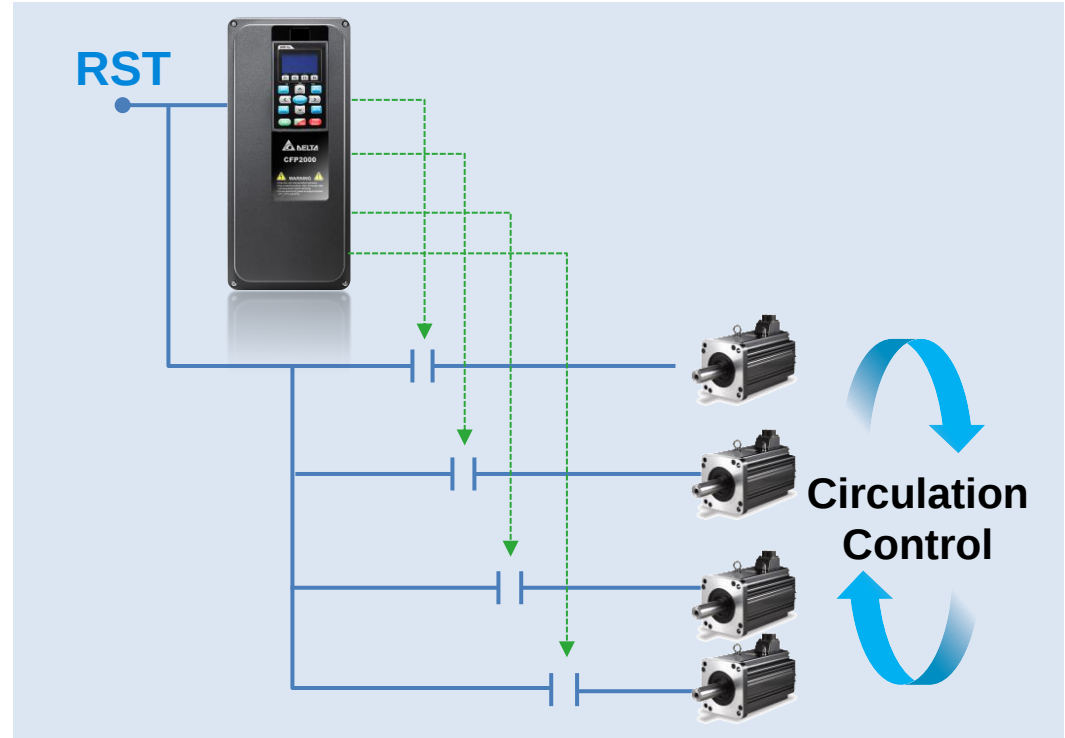
Multi-pumps control



■ Built-in Multi-pumps control mode:

1. Fixed Time Circulation (by time)
2. Fixed amount circulation (by PID)
3. Fixed amount control (by PID)
4. Fixed Time Circulation+ Fixed amount circulation
5. Fixed Time Circulation+ Fixed amount control

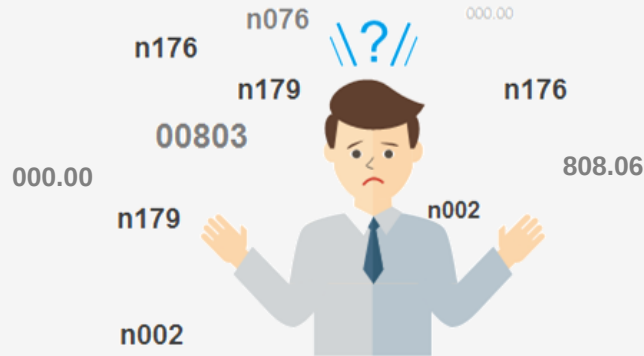
- ## ■ User can use built-in PLC 10k Steps and RTC to arrange flexible pump controls





Application selection makes the drive setting very easy

Without Application selection.....



CFP2000 Application selection includes:

- 01 : User Defined**
- 02 : AHU**
- 03 : Fan**
- 04 : Pump**
- 05 : Compressor**



Frame Size	Power	IP55 NEMA12 W/O Main Switch	IP55 NEMA12 with Main Switch	IP41 NEMA1
A	0.75	VFD007FP4EA-52	VFD007FP4EA-52S	VFD007FP4EA-11
	1.5	VFD015FP4EA-52	VFD015FP4EA-52S	VFD015FP4EA-11
	2.2	VFD022FP4EA-52	VFD022FP4EA-52S	VFD022FP4EA-11
	3.7	VFD037FP4EA-52	VFD037FP4EA-52S	VFD037FP4EA-11
	4	VFD040FP4EA-52	VFD040FP4EA-52S	VFD040FP4EA-11
	5.5	VFD055FP4EA-52	VFD055FP4EA-52S	VFD055FP4EA-11
	7.5	VFD075FP4EA-52	VFD075FP4EA-52S	VFD075FP4EA-11
B	11	VFD110FP4EA-52	VFD110FP4EA-52S	VFD110FP4EA-11
	15	VFD150FP4EA-52	VFD150FP4EA-52S	VFD150FP4EA-11
	18.5	VFD185FP4EA-52	VFD185FP4EA-52S	VFD185FP4EA-11
	22	VFD220FP4EA-52	VFD220FP4EA-52S	VFD220FP4EA-11
C	30	VFD300FP4EA-52	VFD300FP4EA-52S	VFD300FP4EA-11
	37	VFD370FP4EA-52	VFD370FP4EA-52S	VFD370FP4EA-11
D0	45	VFD450FP4EA-52	VFD450FP4EA-52S	VFD450FP4EA-11
	55	VFD550FP4EA-52	VFD550FP4EA-52S	VFD550FP4EA-11
D	75	VFD750FP4EA-52	VFD750FP4EA-52S	VFD750FP4EA-11
	90	VFD900FP4EA-52	VFD900FP4EA-52S	VFD900FP4EA-11

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English



Traditional
Chinese



Simplified
Chinese

