2.3.2 Configuration of PFCD

UNIT NAME	SINGLE CONFIGURATION PFCS	DUPLEXED CONFIGURATION PFCD
Power supply unit (100-120 V AC)	PW701 (1 or 2 nos.)	PW701 (2 nos.)
Power supply unit (220-240 V AC)	PW702 (1 or 2 nos.)	PW702 (2 nos.)
Power supply unit (100-120 V AC)	PW704 (1 or 2 nos.)	PW704 (2 nos.)
Processor Card (Standard)	CP701 1 no.	CP701 (2 nos.)
Processor card (Enhanced)	CP703 1 no.	CP703 (2 nos.)
Control bus coupler unit	AIP521 (1 or 2 nos.)	AIP521 (2 nos.)
Branch plug (for VL net or V net cable)	S9764UK (1 or 2 nos.)	S9764UK (2 nos.)
Branch plug (for V net cable)	S9628UK (2 nos.)	S9628UK (2 nos.)
Battery Unit	S9766UK 1 no.	S9766UK (2 nos.)

2.3.3 Details of component of PFCS

Control Processor Unit (CPU):

Processor card performs control operations. There are two types of processor cards:

- CP701 Standard type with 12 MB RAM and
- CP703 Enhanced type with 16 MB RAM

Status Lamps:

HRDY: The processor card performs self diagnosis. If the processor card hardware is functioning normally, the green light turns on. If abnormality is found, the light turns off.

RDY: The green light turns on if both the hardware and software are functioning normally. If either of them is abnormal, the light turns off.

CTRL: In the duplex PFCS/SFCS, the green light turns on if the processor card is the control side and turns off if it is the waiting side.

When starting up the duplex PFCS/SFCS, the right side becomes the control side. In the single PFCS/SFCS, the green light is always on.

COPY: In the duplex PFCS/SFCS, the green light turns on when program copy is executed and turns off when program copy is completed.

When a processor card has been replaced or when the unit is stopped then started again, the standby-side processor card automatically copies the program of the control-side processor card.

When copy is completed, the light turns off. In the single PFCS/SFCS, the light is always off.

START/STOP: This maintenance switch is used for forcing stop or restarting the processor card CPU.

If this switch is pressed when the processor card is still operating, the CPU will stop. If this switch is pressed when the processor card is not operating, the CPU will restart.

This switch is located inside a hole next to the START/STOP sign. Push the switch using a slender bar of around 2 mm in diameter.

CN1 Connector:
Do not connect anything to the CN1 connector, since it is used for maintenance purposes only.

2.3.8 Application capacity of PFCD

	ITEMS	STANDARD	ENHANCED
CPU model		CP701	CP703
Process I/O	No. of I/O units	5	5
	No. of control loops	16	16
	Total no. of analog points	128	128
	Total no. of contact (Digital) I/O points	512	512
Communication I/O	Number of data (in 16-bit units)	1000	4000
Internal Switches	No. of common switches	1,000	1,000
Message Outputs	No. of annunciator message outputs	200	200
	No. of message outputs (print message, operator guide, message request, event)	100	100
Control Functions	No. of control drawings	50	50