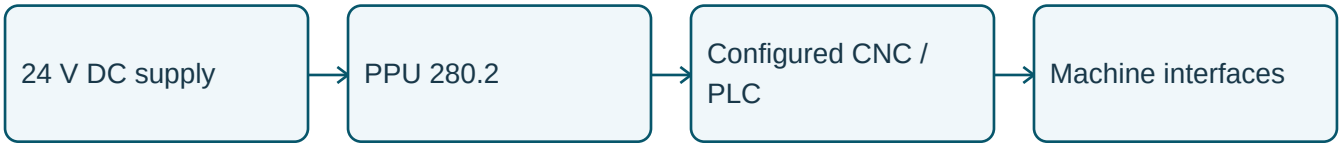
6FC5370-8AA20-0AA0

01 / System identity and preparation

Siemens 6FC5370-8AA20-0AA0 is the vertical PPU 280.2 CNC hardware execution for SINUMERIK 828D. It combines the panel-processing hardware for the configured machine control. The hardware identity must be considered together with the installed CNC software and machine configuration; supplying the PPU does not by itself establish the available software options or the complete machine function.



Preparation priorities

PPU execution	Match 6FC5370-8AA20-0AA0, PPU 280.2, the hardware revision and the vertical panel arrangement.
Machine configuration	Match the CNC software, PLC program, machine data and configured peripheral interfaces.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

Data applies to the vertical PPU 280.2 hardware execution. CNC software, licensed options and machine-specific functions require separate configuration matching.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

PPU execution	Match 6FC5370-8AA20-0AA0, PPU 280.2, the hardware revision and the vertical panel arrangement.
Machine configuration	Match the CNC software, PLC program, machine data and configured peripheral interfaces.
Power and environment	Verify the 24 V DC supply, available power and separate front/rear protection and temperature conditions.
Machine acceptance	Restore the approved backups and verify the machine-specific functions, diagnostics and controlled restart.

PPU execution

Match 6FC5370-8AA20-0AA0, PPU 280.2, the hardware revision and the vertical panel arrangement.

Machine configuration

Match the CNC software, PLC program, machine data and configured peripheral interfaces.

Configured system behavior

The PPU uses a 24 V DC supply with a permitted positive tolerance of 20 percent and negative tolerance of 15 percent. Maximum active power consumption is 60 W. Power-interruption buffering is 3 ms, with 20 ms specified when used with the applicable SITOP smart supply arrangement. Supply selection and the machine restart behavior should be checked together before the replacement is energized.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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Apply manufacturer instructions and approved site procedures.

03 / Hardware and interface checks

Power and environment

Verify the 24 V DC supply, available power and separate front/rear protection and temperature conditions.

Machine acceptance

Restore the approved backups and verify the machine-specific functions, diagnostics and controlled restart.

Key hardware references

Mounting position	Vertical
Supply voltage	24 V DC, +20% / -15%
Maximum active power	60 W
Power-interruption buffering	3 ms; 20 ms with applicable SITOP smart supply

Configuration and service context

The front provides IP65 protection with its flap closed, while the rear is IP20 / UL open type and requires the corresponding protected installation. Operating temperature is 0 to 45 degrees Celsius at the front and 0 to 55 degrees Celsius at the rear; condensation and icing are excluded. Preserve the vertical mounting arrangement, CNC and PLC backups, machine data and fitted interface assignments, then validate the restored machine through the approved commissioning procedure.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Protect the hardware

Use the applicable isolation and electrostatic-discharge controls. Preserve connectors, identification and mechanical retention during handling.

Verify the restored function

Apply the approved site acceptance procedure and compare actual behavior with the recorded system configuration before returning equipment to service.

Acceptance checkpoints

Before energization	Match the CNC software, PLC program, machine data and configured peripheral interfaces.
Configuration review	Verify the 24 V DC supply, available power and separate front/rear protection and temperature conditions.
Functional release	Restore the approved backups and verify the machine-specific functions, diagnostics and controlled restart.

What completes the commissioning check for 6FC5370-8AA20-0AA0?

Restore approved backups and verify machine-specific functions, diagnostic state and controlled restart through the site procedure.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The manufacturer lifecycle phase is Product Discontinuation. Evaluate the complete CNC hardware/software and machine configuration before selecting a successor.

Technical basis

Siemens 6FC5370-8AA20-0AA0 Product Data Sheet; SINAMICS S120 Combi Equipment Manual, 01/2012.

Applicability

Data applies to the vertical PPU 280.2 hardware execution. CNC software, licensed options and machine-specific functions require separate configuration matching.

Related portfolio references

Siemens 6FC5370-4AM20-0AA0

Siemens 6SC6100-0ND20

Siemens 6DD1661-0AE0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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