Siemens 6DD1682-0CC0

01 Capture the complete rack configuration

1. Record the SR12.1 and SP22 identities, module positions, CPU sequence, coupling memory and bus jumpers. Preserve the application and retained data needed for restart.

2. ### Complete rack configuration — acceptance

   The replacement scope is the DC-fed fan-cooled rack arrangement, not an assumed interchangeable SR12 variant.

Stage record	Capture the complete rack configuration observations and acceptance result
Module positions	12
Input supply	24 V DC nominal

02 Plan supply and backup isolation

1. Secure the process and review DC protection, both grounding paths and the backup arrangement. Prepare the approved recovery or external backup method before supply removal.

2. ### Supply and backup isolation — acceptance

   No required retained data or protective connection depends on an unplanned interruption.

Stage record	Plan supply and backup isolation observations and acceptance result
Input operating range	20–30 V DC
Input current rating	16 A

03 Restore rack and bus continuity

1. Install the rack and supply according to the SIMADYN D procedure. Reinstate the recorded daisy-chain jumpers, module fastening, slot covers and grounding conductors.

2. ### Rack and bus continuity — acceptance

   The bus path remains continuous through the required positions and all modules are securely mounted.

Stage record	Restore rack and bus continuity observations and acceptance result
Power-supply type	SP22
Cooling fans	1

04 Check power rails and cooling

1. Apply power under controlled conditions and observe the input, output rails and fan operation. Allow for the fan-monitor run-up delay, then verify its steady fault contact state.

2. ### Power rails and cooling — acceptance

   The rack has healthy supply rails, effective cooling and the expected monitored state without unexplained fault indications.

Stage record	Check power rails and cooling observations and acceptance result
Backplane buses	L bus and C bus
Monitored output voltages	5 V and ±15 V

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05 Validate restart and system response

1. Restart the approved application and test the intended response to rack faults using the authorized procedure. Retain the final rack map, backup condition and electrical checks for handover.

2. ### Restart and system response — acceptance

   The controller architecture recovers predictably and the maintenance record identifies every supply, cooling and backup dependency.

Technical basis: SIMADYN D Hardware, SR12 and SR24 Subracks, Edition 04.2011.

Related product navigation

- Siemens 6ES7138-7EC00-0AA0
- Siemens 6ES7507-0RA00-0AB0
- Siemens 6ES7953-8LG20-0AA0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.