

A5E00297630

SINAMICS Power-unit Service Component

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens A5E00297630 is a service component handled within the documented SINAMICS S120 AC Drive hardware-maintenance workflow. Its installation must be matched to the complete power-unit nameplate, hardware revision, connector arrangement and approved Siemens documentation.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Siemens article.

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A5E00297630

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the complete A5E00297630 marking and the installed SINAMICS power-unit nameplate.
- 2

Isolate incoming power, lock out the drive and prove the DC link discharged.
- 3

Record every busbar, semiconductor, gate-drive, sensor and cooling connection.
- 4

Use ESD controls and protect all control connectors and insulation surfaces.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	A5E00297630
Host / carrier	SINAMICS S120 AC Drive
Primary system role	Preserves the complete Siemens article identifier
Acceptance boundary	Energize in stages and verify power-unit diagnostics before enabling the motor.
Source record	SINAMICS S120 AC Drive Equipment Manual

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Isolate the complete drive supply and prove the DC link discharged before installing A5E00297630. Record the host revision and all power, control, cooling and protective-conductor connections; complete staged diagnostics before motor operation.

- 1 Match hardware revision, connector coding and mechanical interfaces to the as-found assembly.
- 2 Restore protective grounding, shielding, cooling paths and cabinet clearances.
- 3 Reload only the approved drive project, firmware and parameter backup.
- 4 Energize in stages and verify power-unit diagnostics before enabling the motor.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm A5E00297630, host power-unit designation, hardware revision, power and control interfaces, DC-link discharge, grounding, cooling, firmware, parameter backup and controlled diagnostic results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	A5E00297630
Host match	SINAMICS S120 AC Drive
Connection proof	Restore protective grounding, shielding, cooling paths and cabinet clearances.
Configuration proof	Reload only the approved drive project, firmware and parameter backup.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Energize in stages and verify power-unit diagnostics before enabling the motor.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

SINAMICS power-unit repair

Supports an article-controlled service operation in the matching drive cabinet.

Drive cabinet refurbishment

Provides an exact reference for documenting removed and installed power hardware.

Power-stage connection restoration

Guides controlled recovery of busbar, gate, sensor and protective-conductor interfaces.

Post-repair recommissioning

Supports staged diagnostics and motor-enable checks after approved maintenance.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
6SL3320-1TE33-1AA3	motor module	View 6SL3320-1TE33-1AA3 page
6SL3362-0AG00-0AA1	drive component	View 6SL3362-0AG00-0AA1 page
6SL3352-1AE37-5BA1	replacement power block	View 6SL3352-1AE37-5BA1 page
6SL3200-0SP01-0AA0	CIM PM-IF assembly	View 6SL3200-0SP01-0AA0 page
6SE7041-8HK85-1HA0	PER2 interface	View 6SE7041-8HK85-1HA0 page
6SE7041-8EK85-0HA0	PER3 interface	View 6SE7041-8EK85-0HA0 page
6SE7041-8GK85-0HA0	PER3 interface	View 6SE7041-8GK85-0HA0 page
6RA8075-6DS22-0AA0	DC converter	View 6RA8075-6DS22-0AA0 page

MANUFACTURER SOURCE RECORD

SINAMICS S120 AC Drive Equipment Manual
Siemens manual, November 2017

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