

INDUSTRIAL AUTOMATION PRODUCT

# A5E00297630

## SINAMICS Power-unit Service Component

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.

| IDENTITY      | VERIFIED VALUE                                    |
|---------------|---------------------------------------------------|
| Manufacturer  | Siemens                                           |
| System family | SINAMICS S120 AC Drive                            |
| Part number   | A5E00297630                                       |
| Product role  | Preserves the complete Siemens article identifier |
| Lifecycle     | Installed product record                          |

### DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

### MODEL-SPECIFIC ENGINEERING NOTE

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.

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A5E00297630

# Technical Specifications

Technical values below are limited to the named Siemens product record and directly applicable manufacturer documentation.

| PARAMETER            | VALUE                  | PARAMETER              | VALUE                        |
|----------------------|------------------------|------------------------|------------------------------|
| Article identifier   | A5E00297630            | Service context        | Drive power-unit maintenance |
| Manufacturer         | Siemens                | Configuration boundary | Installed system record      |
| System documentation | SINAMICS S120 AC Drive |                        |                              |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                                       |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | SINAMICS S120 AC Drive                                                                                                                                                                                                                               |
| Primary system role        | Preserves the complete Siemens article identifier                                                                                                                                                                                                    |
| Connection boundary        | 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. |
| Controlled acceptance duty | SINAMICS power-unit repair                                                                                                                                                                                                                           |

### ENGINEERING BOUNDARY

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.

## Pre-Installation Checks

|   |                                                                                           |   |                                                                              |
|---|-------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------|
| 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. |

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                   |
|--------------------|----------------------------------|
| As-found article   | A5E00297630                      |
| Installed host     | SINAMICS S120 AC Drive           |
| Connection record  | Capture before removal           |
| Controlled release | Diagnostics and functional proof |

## System Role and Architecture

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.

**FUNCTION 1**  
Preserves the complete Siemens article identifier

**FUNCTION 2**  
Supports a documented SINAMICS power-unit service boundary

**FUNCTION 3**  
Requires controlled DC-link isolation and discharge

**FUNCTION 4**  
Returns to service only after connection and diagnostic verification

### Matched System Components

| NO. | DOCUMENTED COMPONENT / ROLE                                                                                                                                                                                                                          |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | SINAMICS S120 AC Drive                                                                                                                                                                                                                               |
| 2   | Siemens                                                                                                                                                                                                                                              |
| 3   | SINAMICS power-unit repair                                                                                                                                                                                                                           |
| 4   | 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. |

### System Integration Record

| INTEGRATION ITEM       | DOCUMENTED ROLE                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host identity          | SINAMICS S120 AC Drive                                                                                                                                                                                   |
| Interface role         | Preserves the complete Siemens article identifier                                                                                                                                                        |
| Field / power context  | Match A5E00297630 to the installed SINAMICS power unit and approved maintenance record. Follow the Siemens manual for isolation, DC-link discharge, connections, grounding, cooling and recommissioning. |
| Commissioning evidence | Energize in stages and verify power-unit diagnostics before enabling the motor.                                                                                                                          |

### Installation and Connection Checks

**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.

**MANUFACTURER SOURCE RECORD**  
  
SINAMICS S120 AC Drive Equipment Manual  
Siemens manual, November 2017

# Applications and Engineering Context

## 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.

### TECHNICAL NOTE

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.

## Model-Specific Acceptance Evidence

| CHECK              | ACCEPTANCE CONDITION                                                            |
|--------------------|---------------------------------------------------------------------------------|
| Identity           | A5E00297630 recorded                                                            |
| Host / carrier     | SINAMICS S120 AC Drive                                                          |
| Physical interface | Preserves the complete Siemens article identifier                               |
| Configuration      | Reload only the approved drive project, firmware and parameter backup.          |
| Functional proof   | Energize in stages and verify power-unit diagnostics before enabling the motor. |

## IMPORTANT NOTICE

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.

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                                        |
|------------------|---------------------------------------------------------------------------------|
| Article identity | A5E00297630                                                                     |
| Approved role    | SINAMICS power-unit repair                                                      |
| Final validation | Energize in stages and verify power-unit diagnostics before enabling the motor. |

## Engineering Precautions

|   |                                                                                               |   |                                                                                 |
|---|-----------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|
| 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.    |
| 5 | Match hardware revision, connector coding and mechanical interfaces to the as-found assembly. | 6 | Restore protective grounding, shielding, cooling paths and cabinet clearances.  |
| 7 | Reload only the approved drive project, firmware and parameter backup.                        | 8 | Energize in stages and verify power-unit diagnostics before enabling the motor. |

## Related Products on Apter Power

| MODEL              | SYSTEM ROLE         | APTER POWER PAGE                             |
|--------------------|---------------------|----------------------------------------------|
| 6SE7041-8EK85-0HA0 | PER3 interface      | <a href="#">View 6SE7041-8EK85-0HA0 page</a> |
| 6SE7041-8GK85-0HA0 | PER3 interface      | <a href="#">View 6SE7041-8GK85-0HA0 page</a> |
| 6RA8075-6DS22-0AA0 | DC converter        | <a href="#">View 6RA8075-6DS22-0AA0 page</a> |
| 6ES7314-6BH04-0AB0 | S7-300 CPU          | <a href="#">View 6ES7314-6BH04-0AB0 page</a> |
| 6ES7223-1BL22-0XA0 | S7-200 I/O          | <a href="#">View 6ES7223-1BL22-0XA0 page</a> |
| 6AU1455-2AD00-0AA0 | SIMOTION controller | <a href="#">View 6AU1455-2AD00-0AA0 page</a> |
| 6SL3120-2TE21-0AA4 | motor module        | <a href="#">View 6SL3120-2TE21-0AA4 page</a> |
| 6SL3320-1TE33-1AA3 | motor module        | <a href="#">View 6SL3320-1TE33-1AA3 page</a> |

### MANUFACTURER SOURCE RECORD

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Siemens manual, November 2017

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