

INDUSTRIAL AUTOMATION PRODUCT

6SL3000-0KH14-0AA0

SINAMICS S Pre-Charging Resistor

Siemens 6SL3000-0KH14-0AA0 is a 4.0 Ω pre-charging resistor for SINAMICS S systems. The Siemens manual specifies 690 V AC, 18,000 Ws pulse energy and controlled reuse intervals.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS S120 chassis infeed system
Part number	6SL3000-0KH14-0AA0
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6SL3000-0KH14-0AA0 only in the documented SINAMICS S chassis infeed. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected controlled DC-link pre-charging under controlled conditions.

System Role and Architecture

Siemens 6SL3000-0KH14-0AA0 is a 4.0 Ω pre-charging resistor for SINAMICS S systems. The Siemens manual specifies 690 V AC, 18,000 Ws pulse energy and controlled reuse intervals.

FUNCTION 1
Exact article identity 6SL3000-0KH14-0AA0

FUNCTION 2
SINAMICS S Pre-Charging Resistor

FUNCTION 3
Documented role: controlled DC-link pre-charging

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 Siemens 6SL3985-6TM00-0AA0

2 Siemens 6SL3120-2TE21-8AD0

3 Siemens 6SE7041-8EK85-0LA0

4 Siemens 6SE7035-1EJ84-1JC2

5 Siemens 6SE7090-0XX84-1CE0

6 Siemens 6SE7031-7HG84-1JC2

7 Siemens 6SE7031-7HG84-1JC1

8 Siemens 6SL3300-1AH32-5BA0

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SINAMICS S120 chassis infeed system
02	documented SINAMICS S chassis infeed
03	Documented connectors, terminals and protective-earth path
04	Approved firmware, parameter or project record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SINAMICS S120 chassis infeed system
Interface role	controlled DC-link pre-charging
Field / power context	documented SINAMICS S chassis infeed
Commissioning evidence	Identity, interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 6SL3000-0KH14-0AA0 marking, SINAMICS S Pre-Charging Resistor designation and the recorded installation position.
- 2
- Place the drive, motor and connected process in the approved maintenance state.

3

4

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Component	Pre-charging resistor	Parallel pre-charging current	172 A with two resistors per phase
Product designation	RES_WIRE_4R_±10%_155W_±100PP	Ambient temperature	60 °C
Rated voltage	690 V AC	Conductor cross-section	2.5 mm²
Line frequency	47–63 Hz	Reuse interval	Pulse energy event every 3 minutes
Resistance	4.0 Ω ±10%	Matched module	Frame size GD Basic Line Module for 500–690 V 3 AC
Pulse energy	18,000 Ws	Cooling requirement	Install with specified clearance; component becomes hot
Pre-charging current	86 A with one resistor per phase	Product status	Active product

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7Siemens 6SE7031-7HG84-1JC1

8Siemens 6SL3300-1AH32-5BA0

ENGINEERING BOUNDARY

Confirm 6SL3000-0KH14-0AA0, the complete SINAMICS S120 chassis infeed system host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6SL3000-0KH14-0AA0 marking, SINAMICS S Pre-Charging Resistor designation and the recorded installation
- 2

Place the drive, motor and connected process in the approved maintenance state.
- 3

Isolate incoming and auxiliary power, prove stored DC-link energy discharged and use ESD controls.
- 4

Record every power, signal, feedback, communication, shielding and protective-earth connection before removal.

Applications and Engineering Context

SINAMICS S120 chassis infeed system planned maintenance

Restores the documented controlled DC-link pre-charging during controlled cabinet service.

SINAMICS S Pre-Charging Resistor replacement

Uses the exact 6SL3000-0KH14-0AA0 identity instead of a nearby electrical or firmware execution.

Drive-system refurbishment

Preserves the recorded hardware, connections, protective earth, cooling and configuration.

Controlled recommissioning

Confirms diagnostics and the affected drive role before automatic operation.

TECHNICAL NOTE

Install 6SL3000-0KH14-0AA0 only in the documented documented SINAMICS S chassis infeed. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected controlled DC-link pre-charging under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3000-0KH14-0AA0 recorded
Host / carrier	SINAMICS S120 chassis infeed system
Physical interface	Installed power, signal, feedback and communication interfaces matched to the as-found record
Configuration	Approved hardware, firmware and parameter or project configuration restored
Functional proof	Controlled test confirms controlled DC-link pre-charging

IMPORTANT NOTICE

Confirm 6SL3000-0KH14-0AA0, the complete SINAMICS S120 chassis infeed system host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6SL3985-6TM00-0AA0

View Siemens 6SL3985-6TM00-0AA0 page

2

Siemens 6SL3120-2TE21-8AD0

View Siemens 6SL3120-2TE21-8AD0 page

3

Siemens 6SE7041-8EK85-0LA0

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Siemens 6SE7031-7HG84-1JC1

View Siemens 6SE7031-7HG84-1JC1 page

8

Siemens 6SL3300-1AH32-5BA0

View Siemens 6SL3300-1AH32-5BA0 page

MANUFACTURER SOURCE RECORD

Siemens SINAMICS S120 Chassis Power Units equipment manual and SiePortal record | Siemens official product and family documentation, accessed 24 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.