

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.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SINAMICS S120 chassis infeed

PART
6SL3000-0KH14-0AA0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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www.apterpower.com



PRODUCT OVERVIEW

6SL3000-0KH14-0AA0 provides controlled DC-link pre-charging for the matched SINAMICS S120 chassis infeed system installation.

Exact article identity 6SL3000-0KH14-0AA0

SINAMICS S Pre-Charging Resistor

Documented role: controlled DC-link pre-charging

Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES		
1 Siemens 6SE7031-7HG84-1JC1	2 Siemens 6SL3300-1AH32-5BA0	3 Siemens 6SL3985-6TM00-0AA0
4 Siemens 6SL3120-2TE21-8AD0	5 Siemens 6SE7041-8EK85-0LA0	6 Siemens 6SE7035-1EJ84-1JC2
7 Siemens 6SE7090-0XX84-1CE0	8 Siemens 6SE7031-7HG84-1JC2	

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the documented SINAMICS S chassis infeed, its connectors and the recorded configuration. Commissioning preserves the installed architecture and verifies controlled drive response.

TECHNICAL DATA

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_±100P	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
Pre-charging current	86 A with one resistor per phase	Product status	Active product

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7 Siemens 6SE7090-0XX84-1CE0

8 Siemens 6SE7031-7HG84-1JC2

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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.

PRODUCT PRECAUTIONS

1

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

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

5

Verify the installed host and all official values documented for 6SL3000-0KH14-0AA0; do not infer

6

Restore the approved hardware revision, connectors, cooling path and parameter or project record.

7

Energize in the manufacturer sequence and review drive, module and communication diagnostics.

8

Complete controlled interlock, feedback and safe-point functional tests before service release.

RELATED APTER POWER PAGES

1

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2

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ENGINEER FAQ

Q1 How is the exact 6SL3000-0KH14-0AA0 execution identified?

Match the complete 6SL3000-0KH14-0AA0 article number, SINAMICS S Pre-Charging Resistor designation and the recorded host position before replacement.

Q2 What documented function does 6SL3000-0KH14-0AA0 perform?

It provides controlled DC-link pre-charging within the SINAMICS S120 chassis infeed system arrangement.

Q3 Which installed hardware must be matched before fitting 6SL3000-0KH14-0AA0?

Use only the documented SINAMICS S chassis infeed with matching terminals, connectors, hardware revision and system record.

Q4 Which official values govern 6SL3000-0KH14-0AA0?

Component: Pre-charging resistor; Product designation: RES_WIRE_4R_±10%_155W_±100PPM; Rated voltage: 690 V AC; Line frequency: 47–63 Hz.

Q5 What must be recorded before removing 6SL3000-0KH14-0AA0?

Record the nameplate, board position, every power and signal connection, shielding, protective earth, firmware or parameter state and active diagnostics.

Q6 Which handling controls apply to 6SL3000-0KH14-0AA0?

Place the drive and machine in the approved maintenance state, isolate all supplies, prove stored energy discharged and use ESD controls.

Q7 How is 6SL3000-0KH14-0AA0 verified after installation?

Restore the documented hardware and configuration, review diagnostics and complete a controlled safe-point functional test of the affected drive role.

Q8 Which manufacturer record supports the 6SL3000-0KH14-0AA0 page?

The Siemens SINAMICS S120 Chassis Power Units equipment manual and SiePortal record and directly applicable Siemens family manual support the stated identity, function and commissioning

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7 Siemens 6SE7090-0XX84-1CE0

8 Siemens 6SE7031-7HG84-1JC2

SOURCE 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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