6SL3000-0KH14-0AA0

SINAMICS S Pre-Charging Resistor

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6SL3000-0KH14-0AA0
Manufacturer	Siemens
System family	SINAMICS S120 chassis infeed system
Record scope	Installation, application and verification

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

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

MATCHED HARDWARE

- 6SL3000-0KH14-0AA0 with complete article identity
- documented SINAMICS S chassis infeed
- Documented power, signal and feedback interfaces
- Approved configuration and acceptance record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6SL3000-0KH14-0AA0 recorded
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

02 WIRING & INTERFACE CHECKS

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

RELATED PRODUCT PAGES

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

FIELD NOTE

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.

03 COMMISSIONING WORKFLOW

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. 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.
5. Verify the installed host and all official values documented for 6SL3000-0KH14-0AA0; do not infer adjacent executions.
6. Restore the approved hardware revision, connectors, cooling path and parameter or project record.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6SL3000-0KH14-0AA0
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

04 RETURN-TO-SERVICE RECORD

- [ ] Verify the installed host and all official values documented for 6SL3000-0KH14-0AA0; do not infer adjacent executions.
- [ ] Restore the approved hardware revision, connectors, cooling path and parameter or project record.
- [ ] Energize in the manufacturer sequence and review drive, module and communication diagnostics.
- [ ] Complete controlled interlock, feedback and safe-point functional tests before service release.

VERIFICATION RECORD

PRODUCT IDENTITY	6SL3000-0KH14-0AA0
INSTALLED POSITION	documented SINAMICS S chassis infeed
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

FUNCTIONAL ACCEPTANCE CHECKLIST

- [ ] Verify the installed host and all official values documented for 6SL3000-0KH14-0AA0; do not infer adjacent executions.
- [ ] Restore the approved hardware revision, connectors, cooling path and parameter or project record.
- [ ] Energize in the manufacturer sequence and review drive, module and communication diagnostics.
- [ ] Complete controlled interlock, feedback and safe-point functional tests before service release.

SOURCE IDENTIFIERS

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