

INDUSTRIAL AUTOMATION PRODUCT

6SL3055-0AA00-5AA3

SINAMICS S120 SMC10 Sensor Module

Siemens 6SL3055-0AA00-5AA3 is an SMC10 cabinet-mounted Sensor Module for resolver evaluation. It connects resolver and motor-temperature signals to SINAMICS through DRIVE-CLiQ.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS S120 drive system
Part number	6SL3055-0AA00-5AA3
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 6SL3055-0AA00-5AA3 only in the documented documented S120 DRIVE-CLiQ topology. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected resolver and motor-temperature signal evaluation under controlled conditions.

System Role and Architecture

Siemens 6SL3055-0AA00-5AA3 is an SMC10 cabinet-mounted Sensor Module for resolver evaluation. It connects resolver and motor-temperature signals to SINAMICS through DRIVE-CLiQ.

FUNCTION 1
Exact article identity 6SL3055-0AA00-5AA3

FUNCTION 2
SINAMICS S120 SMC10 Sensor Module

FUNCTION 3
Documented role: resolver and motor-temperature signal evaluation

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 Siemens 6SE7041-8GK85-0LA0

2 Siemens 6SE7041-8EK85-1MA0

3 Siemens 6SE7037-0EJ84-1JC2

4 Siemens 6SE7036-1EE85-1HA0

5 Siemens C98043-A1682-L1

6 Siemens A5E36717803

7 Siemens A5E36717808

8 Siemens A5E00297630

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SINAMICS S120 drive system
02	documented S120 DRIVE-CLiQ topology
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 drive system
Interface role	resolver and motor-temperature signal evaluation
Field / power context	documented S120 DRIVE-CLiQ topology
Commissioning evidence	Identity, interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 6SL3055-0AA00-5AA3 marking, SINAMICS S120 SMC10 Sensor Module 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.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Module type	Sensor Module Cabinet-Mounted SMC10	Resolver excitation	4.1 V
Encoder type	2-pole or multipole resolver	Excitation frequency	5–16 kHz
Encoder connection	One SUB-D connection including motor temperature	Transformation ratio	0.5
Temperature sensors	KTY84-130, Pt1000 or PTC	Maximum encoder frequency	2 kHz
System interface	One DRIVE-CLiQ interface	Maximum interpolation	16,384 / 14 bit
Electronics supply	24 V DC	Maximum encoder cable	130 m
Mounting	TH35 DIN rail to EN/IEC 60715	Protective earth	M4 connection
Maximum 24 V current	0.2 A excluding encoder	Status indication	Multicolor LED
Maximum conductor cross-section	2.5 mm²	Conformity	cULus
Maximum external fuse	20 A	Included cable	DRIVE-CLiQ cable not included
Maximum power loss	10 W	Product status	Active product

RELATED PRODUCT PAGES

- 1

Siemens 6SE7041-8GK85-0LA0
- 2

Siemens 6SE7041-8EK85-1MA0
- 3

Siemens 6SE7037-0EJ84-1JC2
- 4

Siemens 6SE7036-1EE85-1HA0
- 5

Siemens C98043-A1682-L1
- 6

Siemens A5E36717803

ENGINEERING BOUNDARY

Confirm 6SL3055-0AA00-5AA3, the complete SINAMICS S120 drive 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 6SL3055-0AA00-5AA3 marking, SINAMICS S120 SMC10 Sensor Module 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 drive system planned maintenance

Restores the documented resolver and motor-temperature signal evaluation during controlled cabinet service.

SINAMICS S120 SMC10 Sensor Module replacement

Uses the exact 6SL3055-0AA00-5AA3 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 6SL3055-0AA00-5AA3 only in the documented documented S120 DRIVE-CLiQ topology. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected resolver and motor-temperature signal evaluation under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3055-0AA00-5AA3 recorded
Host / carrier	SINAMICS S120 drive 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 resolver and motor-temperature signal evaluation

IMPORTANT NOTICE

Confirm 6SL3055-0AA00-5AA3, the complete SINAMICS S120 drive 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 6SE7041-8GK85-0LA0

View Siemens 6SE7041-8GK85-0LA0 page

2

Siemens 6SE7041-8EK85-1MA0

View Siemens 6SE7041-8EK85-1MA0 page

3

Siemens 6SE7037-0EJ84-1JC2

View Siemens 6SE7037-0EJ84-1JC2 page

4

Siemens 6SE7036-1EE85-1HA0

View Siemens 6SE7036-1EE85-1HA0 page

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Siemens C98043-A1682-L1

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Siemens A5E36717803

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Siemens A5E36717808

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Siemens A5E00297630

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MANUFACTURER SOURCE RECORD

Siemens SINAMICS S120 Sensor Modules catalog data 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.