

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.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SINAMICS S120 drive system

PART
6SL3055-0AA00-5AA3

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

6SL3055-0AA00-5AA3 provides resolver and motor-temperature signal evaluation for the matched SINAMICS S120 drive system installation.

Exact article identity 6SL3055-0AA00-5AA3

SINAMICS S120 SMC10 Sensor Module

Documented role: resolver and motor-temperature signal evaluation

Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1

Siemens A5E36717808

2

Siemens A5E00297630

3

Siemens 6SE7041-8GK85-0LA0

4

Siemens 6SE7041-8EK85-1MA0

5

Siemens 6SE7037-0EJ84-1JC2

6

Siemens 6SE7036-1EE85-1HA0

7

Siemens C98043-A1682-L1

8

Siemens A5E36717803

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 S120 DRIVE-CLiQ topology, its connectors and the recorded configuration. Commissioning preserves the installed architecture and verifies controlled drive response.

TECHNICAL DATA

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

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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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

SINAMICS S120 drive system planned maintenance

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

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.

PRODUCT PRECAUTIONS

1

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

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 6SL3055-0AA00-5AA3; 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.

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ENGINEER FAQ

Q1 How is the exact 6SL3055-0AA00-5AA3 execution identified?

Match the complete 6SL3055-0AA00-5AA3 article number, SINAMICS S120 SMC10 Sensor Module designation and the recorded host position before replacement.

Q2 What documented function does 6SL3055-0AA00-5AA3 perform?

It provides resolver and motor-temperature signal evaluation within the SINAMICS S120 drive system arrangement.

Q3 Which installed hardware must be matched before fitting 6SL3055-0AA00-5AA3?

Use only the documented S120 DRIVE-CLiQ topology with matching terminals, connectors, hardware revision and system record.

Q4 Which official values govern 6SL3055-0AA00-5AA3?

Module type: Sensor Module Cabinet-Mounted SMC10; Encoder type: 2-pole or multipole resolver; Encoder connection: One SUB-D connection including motor temperature sensing; Temperature

Q5 What must be recorded before removing 6SL3055-0AA00-5AA3?

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 6SL3055-0AA00-5AA3?

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

Q7 How is 6SL3055-0AA00-5AA3 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 6SL3055-0AA00-5AA3 page?

The Siemens SINAMICS S120 Sensor Modules catalog data and SiePortal record and directly applicable Siemens family manual support the stated identity, function and commissioning boundaries.

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6 Siemens 6SE7036-1EE85-1HA0

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SOURCE Siemens SINAMICS S120 Sensor Modules catalog data and SiePortal record | Siemens official product and family documentation, accessed 24 September 2026

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