

6SE7090-0XX87-4AH0

T300 Technology Board Retrofit Kit

Siemens 6SE7090-0XX87-4AH0 is a T300 technology-board retrofit kit supplied with SC58 and SC60 connection cables, the SE300 terminal block and hardware operating instructions. It adds the documented T300 technology function to the matched drive system.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
Part number	6SE7090-0XX87-4AH0
Product role	Provides the T300 technology-board function
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Before removing 6SE7090-0XX87-4AH0, record the complete marking, installed position, mating hardware, connectors, wiring and configured function. Restore the documented Siemens arrangement, review diagnostics and complete a controlled functional test before release.

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6SE7090-0XX87-4AH0

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Order number	6SE7090-0XX87-4AH0	Included terminal block	SE300
Technology board	T300	Documentation	Hardware operating instructions
Included connection cables	SC58 and SC60		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
Primary system role	Provides the T300 technology-board function
Connection boundary	Before removing 6SE7090-0XX87-4AH0, record the complete marking, installed position, mating hardware, connectors, wiring and configured function. Restore the documented Siemens arrangement, review diagnostics and complete a controlled functional test before release.
Controlled acceptance duty	SIMOREG technology-function retrofit

ENGINEERING BOUNDARY

Confirm 6SE7090-0XX87-4AH0, T300 board, matched SIMOREG/DC drive host, hardware revision, SC58 and SC60 cables, SE300 terminals, wiring, grounding, firmware, software configuration and controlled technology-function test results before commissioning.

Pre-Installation Checks

1	Confirm 6SE7090-0XX87-4AH0 and the T300 marking before work.	2	Place the drive and associated machine in the approved maintenance state.
3	Isolate incoming power and prove all stored energy discharged.	4	Record the installed board position, SC58/SC60 routing and SE300 terminal assignments.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	6SE7090-0XX87-4AH0
Installed host	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Siemens 6SE7090-0XX87-4AH0 is a T300 technology-board retrofit kit supplied with SC58 and SC60 connection cables, the SE300 terminal block and hardware operating instructions. It adds the documented T300 technology function to the matched drive system.

FUNCTION 1
Provides the T300 technology-board function

FUNCTION 2
Includes the SC58 and SC60 connection cables

FUNCTION 3
Includes the SE300 terminal block

FUNCTION 4
Supports the documented SIMOREG DC-MASTER option arrangement

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
2	T300
3	SIMOREG technology-function retrofit
4	Before removing 6SE7090-0XX87-4AH0, record the complete marking, installed position, mating hardware, connectors, wiring and configured function. Restore the documented Siemens arrangement, review diagnostics and complete a controlled functional test before release.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
Interface role	Provides the T300 technology-board function
Field / power context	6SE7090-0XX87-4AH0 is serviced only in the documented SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system arrangement with its matching host, connector set and cabinet interfaces. Commissioning preserves the as-found configuration and verifies identity, connections, diagnostics and the affected system function.
Commissioning evidence	Complete controlled technology-function and machine-interlock tests before service release.

Installation and Connection Checks

1 Use ESD controls and inspect all board, cable and terminal interfaces.

2 Restore the T300 board, both connection cables and terminal block exactly as documented.

3 Restore the approved drive and technology configuration and review diagnostics.

4 Complete controlled technology-function and machine-interlock tests before service release.

MANUFACTURER SOURCE RECORD

SIMOREG DC-MASTER Operating Instructions
Siemens 6RX1700-0AD76, edition 05/2007

Applications and Engineering Context

SIMOREG technology-function retrofit

Adds the documented T300 board and companion hardware to the matched drive.

Drive control modernization

Restores an existing T300 execution with the exact retrofit-kit identity.

Terminal and cable renewal

Replaces the associated SC58, SC60 and SE300 connection set under controlled conditions.

Technology-board recommissioning

Provides the exact kit record used during drive diagnostics and functional acceptance.

TECHNICAL NOTE

Before removing 6SE7090-0XX87-4AH0, record the complete marking, installed position, mating hardware, connectors, wiring and configured function. Restore the documented Siemens arrangement, review diagnostics and complete a controlled functional test before release.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	6SE7090-0XX87-4AH0 recorded
Host / carrier	SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system
Physical interface	Provides the T300 technology-board function
Configuration	Restore the approved drive and technology configuration and review diagnostics.
Functional proof	Complete controlled technology-function and machine-interlock tests before service release.

IMPORTANT NOTICE

Confirm 6SE7090-0XX87-4AH0, T300 board, matched SIMOREG/DC drive host, hardware revision, SC58 and SC60 cables, SE300 terminals, wiring, grounding, firmware, software configuration and controlled technology-function test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	6SE7090-0XX87-4AH0
Approved role	SIMOREG technology-function retrofit
Final validation	Complete controlled technology-function and machine-interlock tests before service release.

Engineering Precautions

- 1

Confirm 6SE7090-0XX87-4AH0 and the T300 marking before work.
- 2

Place the drive and associated machine in the approved maintenance state.
- 3

Isolate incoming power and prove all stored energy discharged.
- 4

Record the installed board position, SC58/SC60 routing and SE300 terminal assignments.
- 5

Use ESD controls and inspect all board, cable and terminal interfaces.
- 6

Restore the T300 board, both connection cables and terminal block exactly as documented.
- 7

Restore the approved drive and technology configuration and review diagnostics.
- 8

Complete controlled technology-function and machine-interlock tests before service release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
6SL3120-2TE21-0AA4	SINAMICS Motor Module	View 6SL3120-2TE21-0AA4 page
6SL3320-1TE33-1AA3	SINAMICS Motor Module	View 6SL3320-1TE33-1AA3 page
6SL3362-0AG00-0AA1	SINAMICS component	View 6SL3362-0AG00-0AA1 page
6SL3352-1AE37-5BA1	replacement power block	View 6SL3352-1AE37-5BA1 page
6SL3200-0SP01-0AA0	CIM PM-IF assembly	View 6SL3200-0SP01-0AA0 page
6SE7041-8HK85-1HA0	PER2 interface	View 6SE7041-8HK85-1HA0 page
6SE7041-8EK85-0HA0	PER3 interface	View 6SE7041-8EK85-0HA0 page
6SE7041-8GK85-0HA0	PER3 interface	View 6SE7041-8GK85-0HA0 page

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