

# 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.

|       |                    |             |                                                                    |
|-------|--------------------|-------------|--------------------------------------------------------------------|
| BRAND | Siemens            | FAMILY      | SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system |
| PART  | 6SE7090-0XX87-4AH0 | SYSTEM ROLE | Provides the T300 technology-board function                        |

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6SE7090-0XX87-4AH0

### MANUFACTURER SOURCE RECORD

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

# Product Overview

## SYSTEM FUNCTION

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

## System Components

| COMPONENT           | DOCUMENTED ROLE                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host / carrier      | SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system                                                                                                                                                                                                                                                                      |
| Primary interface   | Provides the T300 technology-board function                                                                                                                                                                                                                                                                                             |
| Engineering 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 duty  | Complete controlled technology-function and machine-interlock tests before service release.                                                                                                                                                                                                                                             |

## 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.

Technical Data

| 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      |                         |                                 |

Related Products on Apter Power

| MODEL              | SYSTEM ROLE             | APTER POWER PAGE                             |
|--------------------|-------------------------|----------------------------------------------|
| 6ES7223-1BL22-0XA0 | S7-200 I/O module       | <a href="#">View 6ES7223-1BL22-0XA0 page</a> |
| 6AU1455-2AD00-0AA0 | SIMOTION controller     | <a href="#">View 6AU1455-2AD00-0AA0 page</a> |
| 6SL3120-2TE21-0AA4 | SINAMICS Motor Module   | <a href="#">View 6SL3120-2TE21-0AA4 page</a> |
| 6SL3320-1TE33-1AA3 | SINAMICS Motor Module   | <a href="#">View 6SL3320-1TE33-1AA3 page</a> |
| 6SL3362-0AG00-0AA1 | SINAMICS component      | <a href="#">View 6SL3362-0AG00-0AA1 page</a> |
| 6SL3352-1AE37-5BA1 | replacement power block | <a href="#">View 6SL3352-1AE37-5BA1 page</a> |
| 6SL3200-0SP01-0AA0 | CIM PM-IF assembly      | <a href="#">View 6SL3200-0SP01-0AA0 page</a> |
| 6SE7041-8HK85-1HA0 | PER2 interface          | <a href="#">View 6SE7041-8HK85-1HA0 page</a> |

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.

# Applications and Precautions

## Common Applications

### SIMOREG technology-function retrofit

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

### Terminal and cable renewal

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

### Drive control modernization

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

### Technology-board recommissioning

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

## Product 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.

## 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.

| ACCEPTANCE CHECK   | REQUIRED EVIDENCE                                                                           |
|--------------------|---------------------------------------------------------------------------------------------|
| Identity           | 6SE7090-0XX87-4AH0                                                                          |
| Configuration      | Restore the approved drive and technology configuration and review diagnostics.             |
| Functional release | Complete controlled technology-function and machine-interlock tests before service release. |

# Engineer FAQ

## Q1 What identity details must be checked before 6SE7090-0XX87-4AH0 is removed?

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.

## Q3 Which SIMOREG DC-MASTER 6RA70 and compatible Siemens drive option system interfaces must be recorded for 6SE7090-0XX87-4AH0?

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.

## Q5 How should the installed configuration be restored after fitting 6SE7090-0XX87-4AH0?

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

## Q7 What replacement records should be retained for 6SE7090-0XX87-4AH0?

Confirm 6SE7090-0XX87-4AH0 and the T300 marking before work. Use ESD controls and inspect all board, cable and terminal interfaces.

## Q2 How does 6SE7090-0XX87-4AH0 perform its documented t300 technology board retrofit kit role?

Provides the T300 technology-board function. It adds the documented T300 technology function to the matched drive system.

## Q4 What isolation and ESD controls apply while handling 6SE7090-0XX87-4AH0?

Place the drive and associated machine in the approved maintenance state. Isolate incoming power and prove all stored energy discharged.

## Q6 Which diagnostic evidence confirms that 6SE7090-0XX87-4AH0 is recognized correctly?

Restore the approved drive and technology configuration and review diagnostics.

## Q8 What final acceptance test is required before 6SE7090-0XX87-4AH0 returns to service?

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

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