

# 6SE7090-0XX85-1DA0

## SIMOVERT MASTERDRIVES CUR Control Module

### INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens 6SE7090-0XX85-1DA0 is a SIMOVERT MASTERDRIVES CUR Control Module for the SIMOVERT MASTERDRIVES. It performs the documented CUR control module for infeed and infeed/regenerative-feedback units within the matched drive configuration.

| STEP | GATE     | ENGINEERING PURPOSE                |
|------|----------|------------------------------------|
| 01   | IDENTIFY | Confirm article, host and hardware |
| 02   | ISOLATE  | Secure power and stored energy     |
| 03   | CONNECT  | Restore documented interfaces      |
| 04   | VALIDATE | Prove diagnostics and function     |

### WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Siemens article.

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# Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1 Confirm the complete 6SE7090-0XX85-1DA0 marking and the installed SIMOVERT MASTERDRIVES position.
- 2 Place the driven machine and associated process in the approved maintenance state.
- 3 Isolate incoming power, prove stored DC-link energy discharged and use ESD controls.
- 4 Record every power, control, feedback, communication and protective-earth connection before removal.

## Pre-Work Evidence

| EVIDENCE ITEM            | RECORDED VALUE                                                                                       |
|--------------------------|------------------------------------------------------------------------------------------------------|
| Complete article marking | 6SE7090-0XX85-1DA0                                                                                   |
| Host / carrier           | SIMOVERT MASTERDRIVES                                                                                |
| Primary system role      | Provides the documented CUR control module for infeed and infeed/regenerative-feedback units         |
| Acceptance boundary      | Complete a controlled no-load or safe-point functional test before returning the machine to service. |
| Source record            | Siemens Industry Mall Product Record                                                                 |

### WORK AUTHORIZATION RECORD

Work order: \_\_\_\_\_ Drawing / revision: \_\_\_\_\_  
 Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## Isolation and Access Register

| CONTROL POINT     | ENGINEER RECORD        |
|-------------------|------------------------|
| Incoming supply   | Isolated / proved      |
| Stored energy     | Discharged / proved    |
| Field connections | Identified / protected |
| ESD control       | Established / recorded |

## Pre-Work Documentation

| DOCUMENT              | ENGINEER RECORD      |
|-----------------------|----------------------|
| Connection photograph | Reference / file     |
| Configuration backup  | Reference / revision |
| Diagnostic baseline   | Reference / result   |

# Connection and Installation Sequence

## INSTALLATION PRINCIPLE

Install 6SE7090-0XX85-1DA0 only in the documented SIMOVERT MASTERDRIVES position. Preserve the as-found wiring, hardware revision and configuration, then verify diagnostics and the affected CUR control module for infeed and infeed/regenerative-feedback units under controlled conditions.

- 1 Verify the installed host hardware and all values documented for 6SE7090-0XX85-1DA0 against the official source.
- 2 Restore the approved hardware execution, connector arrangement and project or parameter record.
- 3 Energize in the prescribed sequence and review drive, board and communication diagnostics.
- 4 Complete a controlled no-load or safe-point functional test before returning the machine to service.

## Connection Record

| CONNECTION GROUP         | AS-FOUND / AS-LEFT RECORD | STATUS  |
|--------------------------|---------------------------|---------|
| Power / field connection | Reference / terminal      | Checked |
| Signal / interface       | Reference / connector     | Checked |
| Ground / shield          | Reference / point         | Checked |
| Accessory / carrier      | Reference / part          | Checked |

## MODEL-SPECIFIC RELEASE LIMIT

Confirm 6SE7090-0XX85-1DA0, SIMOVERT MASTERDRIVES host, hardware revision, connectors and terminals, power class, feedback or fieldbus options, grounding, cooling, firmware or parameter set, accessories and controlled commissioning results before service release.

## Interface Acceptance Criteria

| ACCEPTANCE ITEM     | REQUIRED EVIDENCE                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------|
| Identity            | 6SE7090-0XX85-1DA0                                                                              |
| Host match          | SIMOVERT MASTERDRIVES                                                                           |
| Connection proof    | Restore the approved hardware execution, connector arrangement and project or parameter record. |
| Configuration proof | Energize in the prescribed sequence and review drive, board and communication diagnostics.      |

# Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

| NO. | ACCEPTANCE CHECK              | RESULT      | RECORD         |
|-----|-------------------------------|-------------|----------------|
| 1   | Article and host identity     | PASS / FAIL | Initial / date |
| 2   | Mechanical installation       | PASS / FAIL | Initial / date |
| 3   | Power and field wiring        | PASS / FAIL | Initial / date |
| 4   | Grounding and shielding       | PASS / FAIL | Initial / date |
| 5   | Configuration restoration     | PASS / FAIL | Initial / date |
| 6   | Signal or power-path response | PASS / FAIL | Initial / date |
| 7   | Diagnostics and alarms        | PASS / FAIL | Initial / date |
| 8   | Final functional release      | PASS / FAIL | Initial / date |

## Engineering Notes

| RECORD AREA             | ENGINEER ENTRY |
|-------------------------|----------------|
| As-found condition      |                |
| Corrective action       |                |
| As-left configuration   |                |
| Outstanding restriction |                |
| Release authorization   |                |

### CONTROLLED COMMISSIONING

Complete a controlled no-load or safe-point functional test before returning the machine to service.

## Diagnostics and Release Log

| EVENT                        | ENGINEERING RECORD   |
|------------------------------|----------------------|
| Initial energization         | Result / observation |
| Interface or signal response | Result / observation |
| Alarm and diagnostic review  | Result / observation |
| Functional release           | Name / date          |

### ACCEPTANCE AND RELEASE EVIDENCE

#### SIMOVERT MASTERDRIVES planned maintenance

Restores the documented CUR control module for infeed and infeed/regenerative-feedback units during a controlled cabinet service.

#### Drive-system refurbishment

Preserves the recorded power, control, communication and protective-earth arrangement.

#### SIMOVERT MASTERDRIVES CUR Control Module replacement

Uses the exact 6SE7090-0XX85-1DA0 identity to avoid an adjacent hardware execution.

#### Controlled recommissioning

Confirms diagnostics and the affected drive function before automatic operation.

## Maintenance Verification and Closeout

### SIMOVERT MASTERDRIVES planned maintenance

Restores the documented CUR control module for infeed and infeed/regenerative-feedback units during a controlled cabinet service.

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Preserves the recorded power, control, communication and protective-earth arrangement.

### Controlled recommissioning

Confirms diagnostics and the affected drive function before automatic operation.

## Related Engineering Pages

| MODEL              | ENGINEERING ROLE | APTER POWER PAGE                             |
|--------------------|------------------|----------------------------------------------|
| 6SL3300-1AH32-5BA0 | product page     | <a href="#">View 6SL3300-1AH32-5BA0 page</a> |
| 6SE7041-8GK85-0LA0 | product page     | <a href="#">View 6SE7041-8GK85-0LA0 page</a> |
| 6SE7041-8EK85-1MA0 | product page     | <a href="#">View 6SE7041-8EK85-1MA0 page</a> |
| 6SE7037-0EJ84-1JC2 | product page     | <a href="#">View 6SE7037-0EJ84-1JC2 page</a> |
| 6SE7036-1EE85-1HA0 | product page     | <a href="#">View 6SE7036-1EE85-1HA0 page</a> |
| 6SE7090-0XX84-1CE0 | product page     | <a href="#">View 6SE7090-0XX84-1CE0 page</a> |
| 6SE7031-7HG84-1JC2 | product page     | <a href="#">View 6SE7031-7HG84-1JC2 page</a> |
| 6SE7031-7HG84-1JC1 | product page     | <a href="#">View 6SE7031-7HG84-1JC1 page</a> |

## MANUFACTURER SOURCE RECORD

Siemens Industry Mall Product Record  
6SE7090-0XX85-1DA0

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