

6SE7090-0XX84-0FA0

SIMOVERT MASTERDRIVES SBP Pulse Encoder Board

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens 6SE7090-0XX84-0FA0 is a SIMOVERT MASTERDRIVES SBP Pulse Encoder Board for the SIMOVERT MASTERDRIVES Motion Control. It performs the documented SBP pulse-encoder evaluation board for incremental encoder signals 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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6SE7090-0XX84-0FA0

Installation Readiness Gate

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

- 1

Confirm the complete 6SE7090-0XX84-0FA0 marking and the installed SIMOVERT MASTERDRIVES Motion Control 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	6SE7090-0XX84-0FA0
Host / carrier	SIMOVERT MASTERDRIVES Motion Control
Primary system role	Provides the documented SBP pulse-encoder evaluation board for incremental encoder signals
Acceptance boundary	Complete a controlled no-load or safe-point functional test before returning the machine to service.
Source record	SIMOVERT MASTERDRIVES Option Boards Operating Instructions

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 6SE7090-0XX84-0FA0 only in the documented SIMOVERT MASTERDRIVES Motion Control position. Preserve the as-found wiring, hardware revision and configuration, then verify diagnostics and the affected SBP pulse-encoder evaluation board for incremental encoder signals under controlled conditions.

- 1 Verify the installed host hardware and all values documented for 6SE7090-0XX84-0FA0 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 6SE7090-0XX84-0FA0, SIMOVERT MASTERDRIVES Motion Control 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	6SE7090-0XX84-0FA0
Host match	SIMOVERT MASTERDRIVES Motion Control
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 Motion Control
planned maintenance**
Restores the documented SBP pulse-encoder evaluation board for incremental encoder signals during a controlled cabinet service.

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

**SIMOVERT MASTERDRIVES SBP Pulse Encoder
Board replacement**
Uses the exact 6SE7090-0XX84-0FA0 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 Motion Control planned maintenance

Restores the documented SBP pulse-encoder evaluation board for incremental encoder signals during a controlled cabinet service.

SIMOVERT MASTERDRIVES SBP Pulse Encoder Board replacement

Uses the exact 6SE7090-0XX84-0FA0 identity to avoid an adjacent hardware execution.

Drive-system refurbishment

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
6SL3210-1PE27-5AL0	product page	View 6SL3210-1PE27-5AL0 page
6SL3100-0BE23-6AB0	product page	View 6SL3100-0BE23-6AB0 page
6SL3210-1PE31-8UL0-944434	product page	View 6SL3210-1PE31-8UL0-944434 page
6SL3320-1TE33-1AA3	product page	View 6SL3320-1TE33-1AA3 page
A5E45508683002	product page	View A5E45508683002 page
6SL3210-1PE21-1AL0	product page	View 6SL3210-1PE21-1AL0 page
6SL3210-1PE21-8AL0	product page	View 6SL3210-1PE21-8AL0 page
6SL3246-0BA22-1FA0	product page	View 6SL3246-0BA22-1FA0 page

MANUFACTURER SOURCE RECORD

SIMOVERT MASTERDRIVES Option Boards Operating Instructions
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