

6SE7090-0XX84-0FA0

SIMOVERT MASTERDRIVES SBP Pulse Encoder Board

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.

BRAND	Siemens	FAMILY	SIMOVERT MASTERDRIVES Motion Control
PART	6SE7090-0XX84-0FA0	SYSTEM ROLE	Provides the documented SBP pulse-encoder evaluation board for incremental encoder signals

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6SE7090-0XX84-0FA0

MANUFACTURER SOURCE RECORD

SIMOVERT MASTERDRIVES Option Boards Operating Instructions
6SE7087-6NX84-0FF5, 05/2006

Product Overview

SYSTEM FUNCTION

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.

FUNCTION 1

Provides the documented SBP pulse-encoder evaluation board for incremental encoder signals

FUNCTION 2

Uses exact article identity 6SE7090-0XX84-0FA0 for replacement control

FUNCTION 3

Integrates with the matched SIMOVERT MASTERDRIVES Motion Control hardware

FUNCTION 4

Supports controlled diagnostics and functional verification after installation

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	SIMOVERT MASTERDRIVES Motion Control
Primary interface	Provides the documented SBP pulse-encoder evaluation board for incremental encoder signals
Engineering context	The component is used with the exact host, connectors, power interfaces and configuration identified for 6SE7090-0XX84-0FA0. Commissioning preserves the installed architecture and verifies controlled drive response.
Commissioning duty	Complete a controlled no-load or safe-point functional test before returning the machine to service.

TECHNICAL NOTE

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.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Module type	SBP pulse encoder board	Cooling	Natural-air cooling
Encoder evaluation	HTL / TTL incremental encoder	Operating temperature	0 to +70 deg C
Pulse tracks	A, B and zero track	Pollution degree	2 to IEC 664-1
Board size	90 x 83 mm		

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER 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
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

ENGINEERING BOUNDARY

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.

Applications and Precautions

Common Applications

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.

Product Precautions

- 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.
- 5

Verify the installed host hardware and all values documented for 6SE7090-0XX84-0FA0 against the official source.
- 6

Restore the approved hardware execution, connector arrangement and project or parameter record.
- 7

Energize in the prescribed sequence and review drive, board and communication diagnostics.
- 8

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

IMPORTANT NOTICE

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	6SE7090-0XX84-0FA0
Configuration	Energize in the prescribed sequence and review drive, board and communication diagnostics.
Functional release	Complete a controlled no-load or safe-point functional test before returning the machine to service.

Engineer FAQ

Q1 How is 6SE7090-0XX84-0FA0 identified?

Match the complete article number, SIMOVERT MASTERDRIVES SBP Pulse Encoder Board designation and SBP pulse encoder board.

Q3 What records are retained before removing 6SE7090-0XX84-0FA0?

Record power, control, feedback, communication and PE connections.

Q5 Which official values govern 6SE7090-0XX84-0FA0?

Module type: SBP pulse encoder board; Encoder evaluation: HTL / TTL incremental encoder; Pulse tracks: A, B and zero track; Board size: 90 x 83 mm.

Q7 Which diagnostics follow 6SE7090-0XX84-0FA0 energization?

Review drive, board and communication diagnostics in the prescribed startup sequence.

Q2 Which host is required for 6SE7090-0XX84-0FA0?

Use only the documented SIMOVERT MASTERDRIVES Motion Control execution with matching interfaces.

Q4 How is 6SE7090-0XX84-0FA0 isolated safely?

Secure the machine, isolate supplies, prove the DC link discharged and use ESD controls.

Q6 How is 6SE7090-0XX84-0FA0 configuration restored?

Restore the approved hardware execution, connectors and parameter or project record.

Q8 What releases 6SE7090-0XX84-0FA0 to service?

A controlled safe-point functional test with the expected drive response.

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