

INDUSTRIAL AUTOMATION PRODUCT

6SE7090-0XX84-0BA0

SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module

Siemens 6SE7090-0XX84-0BA0 is the TSY digital-tachometer and synchronization module for SIMOVERT MASTERDRIVES. The Siemens Vector Control Compendium identifies TSY as special-board code 110.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMOVERT MASTERDRIVES
Part number	6SE7090-0XX84-0BA0
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6SE7090-0XX84-0BA0 only in the documented documented MASTERDRIVES option-board position. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected digital tacho evaluation and drive synchronization under controlled conditions.

System Role and Architecture

Siemens 6SE7090-0XX84-0BA0 is the TSY digital-tachometer and synchronization module for SIMOVERT MASTERDRIVES. The Siemens Vector Control Compendium identifies TSY as special-board code 110.

FUNCTION 1
Exact article identity 6SE7090-0XX84-0BA0

FUNCTION 2
SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module

FUNCTION 3
Documented role: digital tacho evaluation and drive synchronization

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 Siemens 6ES7517-3HP00-0AB0

2 Siemens 6ES7153-2BA02-0XB0

3 Siemens 6ES7214-1AG40-0XB0

4 Siemens A5E45508681002

5 Siemens 6DR5310-0NG00-0AA0

6 Siemens 6DR5020-0NG13-0AA0

7 Siemens 6DR2004-1

8 Siemens 6DR2104-4

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMOVERT MASTERDRIVES
02	documented MASTERDRIVES option-board position
03	Documented connectors, terminals and protective-earth path
04	Approved firmware, parameter or project record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMOVERT MASTERDRIVES
Interface role	digital tacho evaluation and drive synchronization
Field / power context	documented MASTERDRIVES option-board position
Commissioning evidence	Identity, interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 6SE7090-0XX84-0BA0 marking, SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module designation and
- 2

Place the drive, motor and connected process in the approved maintenance state.
- 3

Isolate incoming and auxiliary power, prove stored DC-link energy discharged and use ESD controls.
- 4

Record every power, signal, feedback, communication, shielding and protective-earth connection before removal.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Module designation	TSY	Special-board code	TSY parameter value 110
Module function	Digital tachometer and synchronization	Lifecycle	Discontinued product
Drive platform	SIMOVERT MASTERDRIVES	Availability	Sale until zero stock

RELATED PRODUCT PAGES

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ENGINEERING BOUNDARY

Confirm 6SE7090-0XX84-0BA0, the complete SIMOVERT MASTERDRIVES host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6SE7090-0XX84-0BA0 marking, SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module designation
- 2

Place the drive, motor and connected process in the approved maintenance state.
- 3

Isolate incoming and auxiliary power, prove stored DC-link energy discharged and use ESD controls.
- 4

Record every power, signal, feedback, communication, shielding and protective-earth connection before removal.

Applications and Engineering Context

SIMOVERT MASTERDRIVES planned maintenance

Restores the documented digital tacho evaluation and drive synchronization during controlled cabinet service.

SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module

Uses the exact 6SE7090-0XX84-0BA0 identity instead of a nearby electrical or firmware execution.

Drive-system refurbishment

Preserves the recorded hardware, connections, protective earth, cooling and configuration.

Controlled recommissioning

Confirms diagnostics and the affected drive role before automatic operation.

TECHNICAL NOTE

Install 6SE7090-0XX84-0BA0 only in the documented documented MASTERDRIVES option-board position. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected digital tacho evaluation and drive synchronization under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SE7090-0XX84-0BA0 recorded
Host / carrier	SIMOVERT MASTERDRIVES
Physical interface	Installed power, signal, feedback and communication interfaces matched to the as-found record
Configuration	Approved hardware, firmware and parameter or project configuration restored
Functional proof	Controlled test confirms digital tacho evaluation and drive synchronization

IMPORTANT NOTICE

Confirm 6SE7090-0XX84-0BA0, the complete SIMOVERT MASTERDRIVES host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6ES7517-3HP00-0AB0

View Siemens 6ES7517-3HP00-0AB0 page

2

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7

Siemens 6DR2004-1

View Siemens 6DR2004-1 page

8

Siemens 6DR2104-4

View Siemens 6DR2104-4 page

MANUFACTURER SOURCE RECORD

Siemens SiePortal product record and SIMOVERT MASTERDRIVES Vector Control Compendium | Siemens official product and family documentation, accessed 24 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.