

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

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SIMOVERT MASTERDRIVES

PART
6SE7090-0XX84-0BA0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

6SE7090-0XX84-0BA0 provides digital tacho evaluation and drive synchronization for the matched SIMOVERT MASTERDRIVES installation.

- Exact article identity 6SE7090-0XX84-0BA0
- SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module
- Documented role: digital tacho evaluation and drive synchronization
- Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES					
1	Siemens 6DR2004-1	2	Siemens 6DR2104-4	3	Siemens 6ES7517-3HP00-0AB0
4	Siemens 6ES7153-2BA02-0XB0	5	Siemens 6ES7214-1AG40-0XB0	6	Siemens A5E45508681002
7	Siemens 6DR5310-0NG00-0AA0	8	Siemens 6DR5020-0NG13-0AA0		

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitior Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to the documented MASTERDRIVES option-board position, its connectors and the recorded configuration. Commissioning preserves the installed architecture and verifies controlled drive response.

TECHNICAL DATA

PARAMETER	VALUE
Module designation	TSY
Module function	Digital tachometer and synchronization
Drive platform	SIMOVERT MASTERDRIVES

PARAMETER	VALUE
Special-board code	TSY parameter value 110
Lifecycle	Discontinued product
Availability	Sale until zero stock

RELATED PRODUCT PAGES

1 Siemens 6DR2004-1

2 Siemens 6DR2104-4

3 Siemens 6ES7517-3HP00-0AB0

4 Siemens 6ES7153-2BA02-0XB0

5 Siemens 6ES7214-1AG40-0XB0

6 Siemens A5E45508681002

7 Siemens 6DR5310-0NG00-0AA0

8 Siemens 6DR5020-0NG13-0AA0

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

SIMOVERT MASTERDRIVES planned maintenance

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

SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module replacement

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.

PRODUCT PRECAUTIONS

1

Confirm the complete 6SE7090-0XX84-0BA0 marking, SIMOVERT MASTERDRIVES TSY Tacho 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

5

Verify the installed host and all official values documented for 6SE7090-0XX84-0BA0; do not infer

6

Restore the approved hardware revision, connectors, cooling path and parameter or project record.

7

Energize in the manufacturer sequence and review drive, module and communication diagnostics.

8

Complete controlled interlock, feedback and safe-point functional tests before service release.

RELATED APTER POWER PAGES

1

Siemens 6DR2004-1

2

Siemens 6DR2104-4

3

Siemens 6ES7517-3HP00-0AB0

4

Siemens 6ES7153-2BA02-0XB0

5

Siemens 6ES7214-1AG40-0XB0

6

Siemens A5E45508681002

7

Siemens 6DR5310-0NG00-0AA0

8

Siemens 6DR5020-0NG13-0AA0

ENGINEER FAQ

Q1 How is the exact 6SE7090-0XX84-0BA0 execution identified?

Match the complete 6SE7090-0XX84-0BA0 article number, SIMOVERT MASTERDRIVES TSY Tacho and Synchronization Module designation and the recorded host position before replacement.

Q2 What documented function does 6SE7090-0XX84-0BA0 perform?

It provides digital tacho evaluation and drive synchronization within the SIMOVERT MASTERDRIVES arrangement.

Q3 Which installed hardware must be matched before fitting 6SE7090-0XX84-0BA0?

Use only the documented MASTERDRIVES option-board position with matching terminals, connectors, hardware revision and system record.

Q4 Which official values govern 6SE7090-0XX84-0BA0?

Module designation: TSY; Module function: Digital tachometer and synchronization; Drive platform: SIMOVERT MASTERDRIVES; Special-board code: TSY parameter value 110.

Q5 What must be recorded before removing 6SE7090-0XX84-0BA0?

Record the nameplate, board position, every power and signal connection, shielding, protective earth, firmware or parameter state and active diagnostics.

Q6 Which handling controls apply to 6SE7090-0XX84-0BA0?

Place the drive and machine in the approved maintenance state, isolate all supplies, prove stored energy discharged and use ESD controls.

Q7 How is 6SE7090-0XX84-0BA0 verified after installation?

Restore the documented hardware and configuration, review diagnostics and complete a controlled safe-point functional test of the affected drive role.

Q8 Which manufacturer record supports the 6SE7090-0XX84-0BA0 page?

The Siemens SiePortal product record and SIMOVERT MASTERDRIVES Vector Control Compendium and directly applicable Siemens family manual support the stated identity, function and

RELATED APTER POWER PAGES

1 Siemens 6DR2004-1

2 Siemens 6DR2104-4

3 Siemens 6ES7517-3HP00-0AB0

4 Siemens 6ES7153-2BA02-0XB0

5 Siemens 6ES7214-1AG40-0XB0

6 Siemens A5E45508681002

7 Siemens 6DR5310-0NG00-0AA0

8 Siemens 6DR5020-0NG13-0AA0

SOURCE Siemens SiePortal product record and SIMOVERT MASTERDRIVES Vector Control Compendium | Siemens official product and family documentation, accessed 24 September
+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com