

6SE7031-7HG84-1JC2

SIMOVERT MASTERDRIVES IGD5 inverter control module

It provides the IGD5 inverter-control interface for the documented 171 A MASTERDRIVES power unit.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMOVERT MASTERDRIVES 660-690 V inverter h

PART

6SE7031-7HG84-1JC2

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PRODUCT OVERVIEW

It provides the IGD5 inverter-control interface for the documented 171 A MASTERDRIVES power unit.

1

Drives the installed inverter switching stage

2

Matches 660-690 V three-phase equipment

3

Operates with the documented 890-930 V DC link

4

Serves as the Siemens replacement for the JC1 execution

SYSTEM COMPONENTS

171 A SIMOVERT MASTERDRIVES inverter

documented gate-drive cable set

matching control board and power stack

approved drive parameter backup

TECHNICAL NOTE

Discharge the DC link and verify the 171 A power-section identity before installation; preserve connector order, restore the approved drive project and confirm inhibited gate signals before controlled start-up.

TECHNICAL DATA

PARAMETER	VALUE
Article number	6SE7031-7HG84-1JC2
Module designation	IGD5
Equipment class	Inverter control module
AC device voltage	660-690 V 3 AC

PARAMETER	VALUE
AC frequency	50/60 Hz
DC-link voltage	890-930 V DC
Device current	171 A
Quantity unit	1 piece

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7421-1BL01-0AA0	Related Siemens product	View 6ES7421-1BL01-0AA0 page
6ES7151-1AA06-0AB0	Related Siemens product	View 6ES7151-1AA06-0AB0 page
6ES7131-4BD01-0AA0	Related Siemens product	View 6ES7131-4BD01-0AA0 page
6GK1162-3AA00	Related Siemens product	View 6GK1162-3AA00 page
C98043-A7105-L4-9	Related Siemens product	View C98043-A7105-L4-9 page
6ES7653-2CE00-0XB0	Related Siemens product	View 6ES7653-2CE00-0XB0 page
6ES7653-2CC00-0XB0	Related Siemens product	View 6ES7653-2CC00-0XB0 page
6GK1503-3CD00	Related Siemens product	View 6GK1503-3CD00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

High-voltage MASTERDRIVES repair

Drives the installed inverter switching stage

Inverter gate-path commissioning

Matches 660-690 V three-phase equipment

Power-section module replacement

Operates with the documented 890-930 V DC link

Legacy converter lifecycle service

Serves as the Siemens replacement for the JC1 execution

PRODUCT PRECAUTIONS

- 1 Verify the complete 6SE7031-7HG84-1JC2 marking and its documented SIMOVERT MASTERDRIVES 660-690 V inverter hardware position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 6SE7031-7HG84-1JC2.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 6SE7031-7HG84-1JC2.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved SIMOVERT MASTERDRIVES 660-690 V inverter hardware hardware arrangement and configuration after replacement.
- 7 Energize 6SE7031-7HG84-1JC2 in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

ENGINEER FAQ

Q1 Does 6SE7031-7HG84-1JC2 match 171 A SIMOVERT MASTERDRIVES inverter in a High-voltage MASTERDRIVES repair installation?

Verify the complete 6SE7031-7HG84-1JC2 marking, the documented SIMOVERT MASTERDRIVES 660-690 V inverter hardware position and the installed 171 A SIMOVERT MASTERDRIVES inverter before fitting the assembly.

Q3 Which SIMOVERT MASTERDRIVES 660-690 V inverter hardware records should be captured before removing 6SE7031-7HG84-1JC2?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SE7031-7HG84-1JC2 before disconnection.

Q5 Which documented gate-drive cable set condition should be checked when 6SE7031-7HG84-1JC2 reports an abnormal state?

Check the documented gate-drive cable set supply, seating and connection first, then compare channel diagnostics with the recorded 6SE7031-7HG84-1JC2 baseline.

Q7 What maintenance evidence is required after 6SE7031-7HG84-1JC2 is used for Power-section module replacement?

Retain the nameplate record, corrective action, final diagnostics and a controlled power-section module replacement functional-test result for 6SE7031-7HG84-1JC2.

Q2 How should 6SE7031-7HG84-1JC2 be wired when it must drives the installed inverter switching stage?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SE7031-7HG84-1JC2; then continuity-test the affected path.

Q4 What controlled test confirms that 6SE7031-7HG84-1JC2 can matches 660-690 v three-phase equipment?

Apply the approved field or simulated stimulus, observe the SIMOVERT MASTERDRIVES 660-690 V inverter hardware indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 6SE7031-7HG84-1JC2 be moved directly into Inverter gate-path commissioning without validating approved drive parameter backup?

No. Confirm the approved drive parameter backup, revision, connection scheme and SIMOVERT MASTERDRIVES 660-690 V inverter hardware configuration before transferring 6SE7031-7HG84-1JC2 to that duty.

Q8 How should 6SE7031-7HG84-1JC2 be returned to service in Legacy converter lifecycle service?

Restore power under control, verify operates with the documented 890-930 v dc link, exercise the intended signal path and release 6SE7031-7HG84-1JC2 only after the SIMOVERT MASTERDRIVES 660-690 V inverter hardware remains in its approved operating state.

SOURCE Siemens SiePortal product record | 6SE7031-7HG84-1JC2

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