

INDUSTRIAL AUTOMATION PRODUCT

6SE7031-7HG84-1JC2

SIMOVERT MASTERDRIVES IGD5 inverter control module

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

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMOVERT MASTERDRIVES 660-690 V inverter hardware
Part number	6SE7031-7HG84-1JC2
Country	Germany
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Article number	6SE7031-7HG84-1JC2
Module designation	IGD5
Equipment class	Inverter control module
AC device voltage	660-690 V 3 AC
AC frequency	50/60 Hz
DC-link voltage	890-930 V DC
Device current	171 A
Quantity unit	1 piece

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	171 A SIMOVERT MASTERDRIVES inverter
Companion hardware	documented gate-drive cable set
Field connection	matching control board and power stack
Primary system function	Drives the installed inverter switching stage
Controlled acceptance duty	High-voltage MASTERDRIVES repair

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System Role and Architecture

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

FUNCTION 1
Drives the installed inverter switching stage

FUNCTION 2
Matches 660-690 V three-phase equipment

FUNCTION 3
Operates with the documented 890-930 V DC link

FUNCTION 4
Serves as the Siemens replacement for the JC1 execution

Matched system components

- 171 A SIMOVERT MASTERDRIVES inverter
- documented gate-drive cable set
- matching control board and power stack
- approved drive parameter backup

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	171 A SIMOVERT MASTERDRIVES inverter
Companion hardware	documented gate-drive cable set
Field connection	matching control board and power stack
Primary system function	Drives the installed inverter switching stage
Controlled acceptance duty	High-voltage MASTERDRIVES repair

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SE7031-7HG84-1JC2 / 6SE7031-7HG84-1JC2 recorded
Physical interface	171 A SIMOVERT MASTERDRIVES inverter
Companion check	documented gate-drive cable set
Functional proof	Drives the installed inverter switching stage
Application test	High-voltage MASTERDRIVES repair

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7193-4JA00-0AA0	Related Siemens product	View 6ES7193-4JA00-0AA0 page
6ED1052-1MD00-0BA5	Related Siemens product	View 6ED1052-1MD00-0BA5 page
6ES7153-2AA02-0XB0	Related Siemens product	View 6ES7153-2AA02-0XB0 page
6ES7954-8LC04-0AA0	Related Siemens product	View 6ES7954-8LC04-0AA0 page
6AV2124-0QC02-0AX1	Related Siemens product	View 6AV2124-0QC02-0AX1 page
6ES7590-1AB60-0AA0	Related Siemens product	View 6ES7590-1AB60-0AA0 page
6EP3334-8SB00-0AY0	Related Siemens product	View 6EP3334-8SB00-0AY0 page
6AU1455-2AD00-0AA0	Related Siemens product	View 6AU1455-2AD00-0AA0 page

MANUFACTURER SOURCE RECORD

Siemens SiePortal product record

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