

INDUSTRIAL AUTOMATION PRODUCT

6SE7031-7HG84-1JC1

SIMOVERT MASTERDRIVES IGD5 inverter gating module

It generates the documented inverter gate-drive function for a 171 A SIMOVERT MASTERDRIVES power section.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMOVERT MASTERDRIVES 660-690 V inverter hardware
Part number	6SE7031-7HG84-1JC1
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	6SE7031-7HG84-1JC1
Module designation	IGD5
Equipment class	Inverter gating 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
Successor article	6SE7031-7HG84-1JC2

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	compatible 171 A SIMOVERT MASTERDRIVES power section
Companion hardware	installed gate-drive harness
Field connection	matching control electronics
Primary system function	Controls the inverter switching devices through the IGD5 interface
Controlled acceptance duty	High-voltage inverter power-section service

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System Role and Architecture

It generates the documented inverter gate-drive function for a 171 A SIMOVERT MASTERDRIVES power section.

FUNCTION 1

Controls the inverter switching devices through the IGD5 interface

FUNCTION 2

Matches 660-690 V three-phase device hardware

FUNCTION 3

Supports a 890-930 V DC-link power section

FUNCTION 4

Provides the predecessor configuration for the JC2 replacement article

Matched system components

- compatible 171 A SIMOVERT MASTERDRIVES power section
- installed gate-drive harness
- matching control electronics
- approved converter commissioning record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	compatible 171 A SIMOVERT MASTERDRIVES power section
Companion hardware	installed gate-drive harness
Field connection	matching control electronics
Primary system function	Controls the inverter switching devices through the IGD5 interface
Controlled acceptance duty	High-voltage inverter power-section service

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Applications and Engineering Context

High-voltage inverter power-section service

Controls the inverter switching devices through the IGD5 interface

Masterdrives cabinet restoration

Matches 660-690 V three-phase device hardware

Gate-drive signal-path verification

Supports a 890-930 V DC-link power section

Controlled JC1-to-JC2 replacement planning

Provides the predecessor configuration for the JC2 replacement article

TECHNICAL NOTE

Isolate and discharge the DC link, verify zero energy, record every gate-drive connector and power-section position, then prove pulse blocking and controlled inverter response before enabling the motor.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SE7031-7HG84-1JC1 / 6SE7031-7HG84-1JC1 recorded
Physical interface	compatible 171 A SIMOVERT MASTERDRIVES power section
Companion check	installed gate-drive harness
Functional proof	Controls the inverter switching devices through the IGD5 interface
Application test	High-voltage inverter power-section service

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Engineering Precautions

- 1 Verify the complete 6SE7031-7HG84-1JC1 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 6SE7031-7HG84-1JC1.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 6SE7031-7HG84-1JC1.
- 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
6ES7317-2EK13-0AB0	Related Siemens product	View 6ES7317-2EK13-0AB0 page
6ES7317-2AJ10-0AB0	Related Siemens product	View 6ES7317-2AJ10-0AB0 page
A5E36717803	Related Siemens product	View A5E36717803 page
A5E36717808	Related Siemens product	View A5E36717808 page
A5E00297630	Related Siemens product	View A5E00297630 page
A5E36717793	Related Siemens product	View A5E36717793 page
A5E36717811	Related Siemens product	View A5E36717811 page
6ED1052-1HB08-0BA1	Related Siemens product	View 6ED1052-1HB08-0BA1 page

MANUFACTURER SOURCE RECORD

Siemens SiePortal product record

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