

6SE7031-7HG84-1JC1

SIMOVERT MASTERDRIVES IGD5 inverter gating module

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6SE7031-7HG84-1JC1
Manufacturer part	6SE7031-7HG84-1JC1
Hardware type	6SE7031-7HG84-1JC1
System family	SIMOVERT MASTERDRIVES 660-690 V inverter hardware



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐
- Restore only the approved SIMOVERT MASTERDRIVES 660-690 V inverter hardware hardware arrangement and configuration after replacement.
- ☐
- Energize 6SE7031-7HG84-1JC1 in the documented sequence and review local, host and network diagnostics.
- ☐
- Prove the intended controlled function and retain the final acceptance record before production release.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	6SE7031-7HG84-1JC1
INSTALLED POSITION	Documented SIMOVERT MASTERDRIVES 660-690 V inverter hardware position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7223-1BL22-0XA0	Related Siemens product	View 6ES7223-1BL22-0XA0 page
6SE7041-8HK85-1HA0	Related Siemens product	View 6SE7041-8HK85-1HA0 page
6SL3200-0SP01-0AA0	Related Siemens product	View 6SL3200-0SP01-0AA0 page
6SE7041-8EK85-1HA0	Related Siemens product	View 6SE7041-8EK85-1HA0 page
6SE7041-8EK85-0HA0	Related Siemens product	View 6SE7041-8EK85-0HA0 page
6SE7041-8GK85-0HA0	Related Siemens product	View 6SE7041-8GK85-0HA0 page
6RA8075-6DS22-0AA0	Related Siemens product	View 6RA8075-6DS22-0AA0 page
6SL3350-6TK00-0BA0	Related Siemens product	View 6SL3350-6TK00-0BA0 page

SOURCE IDENTIFIERS

Siemens SiePortal product record
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