

INDUSTRIAL AUTOMATION PRODUCT

6SE7012-0TP50

Drive Inverter

Siemens 6SE7012-0TP50 is a SIMOVERT MASTERDRIVES Motion Control Compact PLUS DC-AC inverter rated 0.75 kW and 2 A. It is designed for the documented 510 to 650 V DC-link range.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
Complete model	6SE7012-0TP50
Product role	Drive Inverter
System family	SIMOVERT MASTERDRIVES Motion Control

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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6SE7012-0TP50

Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	6SE7012-0TP50
Drive family	SIMOVERT MASTERDRIVES Motion Control Compact PLUS
Converter type	DC-AC inverter
Supply voltage	3 AC 380 V -15% to 480 V +10%
Nominal power rating	0.75 kW
Rated output current	2.0 A
Maximum current	3.2 A
Rated DC-link current	2.4 A
DC-link voltage	510 to 650 V DC
Total power loss at 5 kHz	0.066 kW
Cooling air requirement	0.002 m3/s
Sound pressure level	18 dB(A) at 50 Hz
5 kHz motor cable limits	100 m shielded / 70 m unshielded
10 kHz motor cable limits	50 m shielded / 35 m unshielded

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Use only the complete Siemens 6SE7012-0TP50 identity and the current manufacturer documentation. Confirm installed hardware, wiring, firmware or parameter compatibility and the approved maintenance record before replacement or release.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete Siemens 6SE7012-0TP50 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion-hardware arrangement before removal.
4	Place the controller, drive or machine in the approved maintenance state before handling.
5	Use ESD controls and protect keyed connectors, terminals and circuit-board components.

System Role and Architecture

Siemens 6SE7012-0TP50 is a SIMOVERT MASTERDRIVES Motion Control Compact PLUS DC-AC inverter rated 0.75 kW and 2 A. It is designed for the documented 510 to 650 V DC-link range.

FUNCTION 1
0.75 kW motion control

FUNCTION 2
2 A inverter output

FUNCTION 3
510-650 V DC link

FUNCTION 4
Compact PLUS construction

Common Applications

APPLICATION	ENGINEERING CONTEXT
Servo motion	Controls an approved motor axis.
Machine automation	Executes configured speed and torque commands.
Drive retrofit	Maintains an installed MASTERDRIVES axis.
Controlled spare replacement	Preserves the documented inverter and motor configuration.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6SE7031-5EF84-1JC1	View Siemens 6SE7031-5EF84-1JC1
Siemens 6SE7031-7HG84-1JC1	View Siemens 6SE7031-7HG84-1JC1
Siemens 6SE7031-7HG84-1JC2	View Siemens 6SE7031-7HG84-1JC2
Siemens 6SE7033-5GJ84-1JC0	View Siemens 6SE7033-5GJ84-1JC0

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete Siemens 6SE7012-0TP50 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion-hardware arrangement before removal.
4	Place the controller, drive or machine in the approved maintenance state before handling.
5	Use ESD controls and protect keyed connectors, terminals and circuit-board components.
6	Confirm the documented electrical and interface values for 6SE7012-0TP50 before energization.
7	Restore wiring, shielding, grounding and mechanical retention exactly as documented.
8	Run model-specific diagnostics and a controlled functional test before production release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Siemens 6SE7012-0TP50?	Siemens 6SE7012-0TP50 is a SIMOVERT MASTERDRIVES Motion Control Compact PLUS DC-AC inverter rated 0.75 kW and 2 A. It is designed for the documented 510 to 650 V DC-link range.
Which product family includes 6SE7012-0TP50?	The official manufacturer record identifies it within the SIMOVERT MASTERDRIVES Motion Control family.
Which exact identity must be retained?	Record the complete Siemens 6SE7012-0TP50 marking; do not shorten or replace the suffix.
Which key technical value is documented?	Drive family: SIMOVERT MASTERDRIVES Motion Control Compact PLUS.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6SE7035-1EJ84-1JC1	View Siemens 6SE7035-1EJ84-1JC1
Siemens 6SE7035-1EJ84-1JC2	View Siemens 6SE7035-1EJ84-1JC2
Siemens 6SE7036-1EE85-1HA0	View Siemens 6SE7036-1EE85-1HA0
Siemens 6SE7037-0EJ84-1JC2	View Siemens 6SE7037-0EJ84-1JC2
Siemens 6SE7038-6EK84-1JC2	View Siemens 6SE7038-6EK84-1JC2

Model-Specific FAQ - Part 2

QUESTION	ANSWER
What must be checked before removal?	Record the slot, connectors, terminals, companion hardware and configured function from the installed system.
Can a nearby model be substituted?	No. A different suffix or family member requires documented electrical, mechanical, firmware and interface approval.
What installation controls are required?	Use the current manufacturer procedure, approved maintenance state, ESD controls and the documented wiring and grounding arrangement.
What confirms successful commissioning?	Identity and connections match the record, diagnostics pass and the controlled functional test has no unexplained fault.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6SE7038-6GK84-1JC2	View Siemens 6SE7038-6GK84-1JC2
Siemens 6SE7041-2WL84-1JC0	View Siemens 6SE7041-2WL84-1JC0
Siemens 6SE7041-2WL84-1JC1	View Siemens 6SE7041-2WL84-1JC1
Siemens 6SE7041-8EK85-0HA0	View Siemens 6SE7041-8EK85-0HA0
Siemens 6SE7041-8EK85-0LA0	View Siemens 6SE7041-8EK85-0LA0
Siemens 6SE7041-8EK85-1HA0	View Siemens 6SE7041-8EK85-1HA0
Siemens 6SE7041-8EK85-1MA0	View Siemens 6SE7041-8EK85-1MA0
Siemens 6SE7041-8GK85-0HA0	View Siemens 6SE7041-8GK85-0HA0
Siemens 6SE7041-8GK85-0LA0	View Siemens 6SE7041-8GK85-0LA0
Siemens 6SE7041-8HK85-1HA0	View Siemens 6SE7041-8HK85-1HA0
Siemens 6SE7042-1WN84-1CF0	View Siemens 6SE7042-1WN84-1CF0

MANUFACTURER SOURCE RECORD

SIMOVERT MASTERDRIVES Motion Control Compendium
Siemens Industry Support documentation for exact 6SE7012-0TP50 Compact PLUS inverter

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