

Siemens A5E00714562

Inverter Driver Board / Exact identity and technical profile

This reference separates the exact published characteristics of Siemens A5E00714562 from neighboring family variants and undocumented suffixes.

Exact identifier	A5E00714562
Board designation	IGD2/R4
Component class	Internal inverter driver board / drive firing card
Service role	Spare repair component
Parent platform	SINAMICS Powerblock
Documented families	SINAMICS S120 / G120 / G130

TECHNICAL MARKER

IGD2/R4 board identity

TECHNICAL MARKER

Internal inverter driver function

TECHNICAL MARKER

SINAMICS Powerblock context

TECHNICAL MARKER

Associated FS450R12KE3_S1 IGBT

Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

Identity evidence	Read A5E00714562 from the installed label and procurement record
Function evidence	Confirm the published inverter driver board role in the SINAMICS Powerblock system
Configuration evidence	Retain the project, mapping, range, address or interface assigned to this position
Release evidence	Link final diagnostics to a witnessed field or operator response

TECHNICAL DECISION

Accept A5E00714562 only when its identifier and installed-system role agree.

CHANGE BOUNDARY

Any redesign beyond the documented A5E00714562 position requires separate engineering approval.

Siemens A5E00714562

Inverter Driver Board / Published characteristics

This matrix groups the published A5E00714562 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact inverter driver board record.

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Board designation	IGD2/R4
Component class	Internal inverter driver board / drive firing card
Service role	Spare repair component
Parent platform	SINAMICS Powerblock
Documented families	SINAMICS S120 / G120 / G130
Example parent drive	6SL3310-1TE35-0AA3
Associated IGBT module	FS450R12KE3_S1
Documentation basis	Parent-drive hardware and service manuals
Troubleshooting context	Power-unit fault diagnostics
Referenced fault examples	F30021 / F07490
Standalone operation	Not applicable

INTERPRETATION

Use every A5E00714562 value with the exact installed configuration.

DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make A5E00714562 data actionable.

Nameplate check	Manufacturer and full reference agree with the controlled record
Range check	Published operating or signal data agree with the configured use
Interface check	Backplane, terminal, cable, network or memory arrangement is documented
Limit check	Loading, channel count, supply or lifecycle constraint is reviewed
Evidence close	Source title and applicable product record are retained with the decision

NO BORROWED VALUES

Another Siemens suffix cannot fill a missing A5E00714562 parameter.

ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

Siemens A5E00714562

Inverter Driver Board / System role and data flow

Powerblock gate-drive service

Restores the internal firing-card role in the documented power section.

SINAMICS repair work

Supports controlled repair of an S120, G120 or G130 Powerblock context.

IGBT driver replacement

Reinstates the recorded interface to the associated FS450R12KE3_S1 module.

Fault-led maintenance

Uses parent-drive diagnostics and the retained assembly record to guide service.

Signal and configuration path

Field layer	Sensors, loads, terminal or operator interface assigned by the design
Module layer	A5E00714562 performs its published inverter driver board role
Control layer	PLC project, address map or runtime application interprets the exchanged data
Acceptance layer	Diagnostics and intended process response are witnessed together

Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

Observed input	Field, network or operator condition presented to A5E00714562
Published action	The documented inverter driver board function processes that condition
Configured interpretation	PLC logic, HMI project or station mapping assigns system meaning
Expected output	A defined state, value, message or command is produced
Acceptance proof	The complete path is witnessed under controlled conditions

APPLICATION RECORD

Tie each A5E00714562 use case to the installed drawing or project tag.

EXCEPTION CONTROL

Document and resolve any behavior that differs from the approved response.

Siemens A5E00714562

Inverter Driver Board / Engineering decisions

SUPPORTED IDENTITY

A5E00714562

PUBLISHED FUNCTION

Inverter Driver Board

SYSTEM CONTEXT

SINAMICS Powerblock

UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

Model-specific questions

What internal function does Siemens A5E00714562 perform?

It is identified as an internal inverter driver board and drive firing card.

Which drive families are cited for Siemens A5E00714562?

The supplied data places it in SINAMICS S120, G120 or G130 Powerblock service contexts.

Which IGBT module is commonly paired with Siemens A5E00714562?

The supplied record names FS450R12KE3_S1.

Which fault examples are relevant when servicing Siemens A5E00714562?

The supplied reference cites F30021 and F07490 as parent power-unit troubleshooting examples.

Which board designation is associated with Siemens A5E00714562?

The supplied reference identifies the board as IGD2/R4.

Which example parent drive is named for Siemens A5E00714562?

The reference cites 6SL3310-1TE35-0AA3 as an example Powerblock drive model.

Why does Siemens A5E00714562 not use a standalone wiring manual?

It is an internal service board, so wiring and replacement procedures belong to the parent drive hardware documentation.

What completes commissioning of Siemens A5E00714562?

Confirm the parent Powerblock identity, restored connector record, IGBT interface, healthy diagnostics and controlled drive operation.

Decision closeout

Close the A5E00714562 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

Question coverage	Identity, function, configuration and field handling addressed
Open item	Any unanswered exact-model point is listed without guessed data
Decision owner	Responsible engineering or maintenance role identified
Supporting record	Drawing, project revision, readings and witnessed result attached

APPROVAL

The A5E00714562 decision is accepted only within the documented scope.

REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

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Inverter Driver Board / Evidence and support

Exact product	Siemens A5E00714562
Technical class	Inverter Driver Board
Platform	SINAMICS Powerblock
Evidence use	Exact-model characteristics and engineering boundary
Record with	Installed drawing, project and acceptance evidence
Retained evidence	Nameplate, source title, configuration baseline and field record
Installation evidence	Isolation, conductor/connector record and post-work inspection
Commissioning evidence	Diagnostics, measurements and intended response
Final record	Responsible witness, date, exceptions and approved disposition

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Siemens A5E36717803

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Siemens A5E36717808

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MANUFACTURER EVIDENCE RECORD

User-supplied A5E00714562 technical identity record

Exact-model service data authorized by the user; original summary PDF is not distributed

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Send the exact model, quantity, destination and requested condition for a quotation.

