

INDUSTRIAL AUTOMATION PRODUCT

6SL3351-1AE37-5BA1

SINAMICS 745 A Replacement Power Block for Rectifier and U Phase

Siemens 6SL3351-1AE37-5BA1 is a SINAMICS 745 A replacement power block containing the rectifier and U-phase sections for a 380-480 V AC Drive/Power Module. It restores the input conversion stage and one inverter phase in the matching drive assembly.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS AC Drive/Power Module
Part number	6SL3351-1AE37-5BA1
Country	Germany
HS code	85049090

APTER POWER SALES TEAM

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Product type	Replacement power block
Supply system	3 AC
Voltage range	380-480 V
Line frequency	50/60 Hz
Rated current	745 A
Power section	Rectifier and U phase
Module finish	Painted
Busbar finish	Nickel-plated
Export classification	AL:N / ECCN:EAR99H
Quantity unit	1 piece

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	matching SINAMICS AC Drive/Power Module chassis
Companion hardware	documented rectifier and U-phase busbar positions
Field connection	approved gate-drive and control connections
Primary system function	Combines the rectifier power section with the U-phase inverter section for the specified drive execution
Controlled acceptance duty	Rectifier/U phase-section restoration

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System Role and Architecture

Siemens 6SL3351-1AE37-5BA1 is a SINAMICS 745 A replacement power block containing the rectifier and U-phase sections for a 380-480 V AC Drive/Power Module. It restores the input conversion stage and one inverter phase in the matching drive assembly.

FUNCTION 1

Combines the rectifier power section with the U-phase inverter section for the specified drive execution

FUNCTION 2

Carries the documented 745 A conversion path for a 380-480 V three-phase power module

FUNCTION 3

Retains painted power assemblies in the identified replacement configuration

FUNCTION 4

Provides nickel-plated busbar interfaces for the specified power interconnections

Matched system components

- matching SINAMICS AC Drive/Power Module chassis
- documented rectifier and U-phase busbar positions
- approved gate-drive and control connections
- installed cooling and protective-conductor arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	matching SINAMICS AC Drive/Power Module chassis
Companion hardware	documented rectifier and U-phase busbar positions
Field connection	approved gate-drive and control connections
Primary system function	Combines the rectifier power section with the U-phase inverter section for the specified drive execution
Controlled acceptance duty	Rectifier/U phase-section restoration

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Applications and Engineering Context

Rectifier/U phase-section restoration

Combines the rectifier power section with the U-phase inverter section for the specified drive execution

Heavy-duty AC drive maintenance

Carries the documented 745 A conversion path for a 380-480 V three-phase power module

High-current converter cabinet service

Retains painted power assemblies in the identified replacement configuration

Controlled input-stage recommissioning

Provides nickel-plated busbar interfaces for the specified power interconnections

TECHNICAL NOTE

Discharge the drive DC link and document the incoming rectifier and U-phase connections before exchanging 6SL3351-1AE37-5BA1. Restore busbar hardware, control interfaces, cooling and protective bonding exactly to the approved drive arrangement.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3351-1AE37-5BA1 / 6SL3351-1AE37-5BA1 recorded
Physical interface	matching SINAMICS AC Drive/Power Module chassis
Companion check	documented rectifier and U-phase busbar positions
Functional proof	Combines the rectifier power section with the U-phase inverter section for the specified drive execution
Application test	Rectifier/U phase-section restoration

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Engineering Precautions

- 1 Confirm 6SL3351-1AE37-5BA1 and the rectifier/U-phase position from the physical marking before removal.
- 2 Isolate the mains supply and verify the complete DC-link discharge interval before opening the power section.
- 3 Label incoming phases, DC-link conductors, U-phase output, sensors and gate-drive connectors before disconnection.
- 4 Use ESD controls and protect the semiconductor and control interfaces during handling.
- 5 Inspect nickel-plated busbar faces, insulators and fastening hardware before reassembly.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP PSU300S stabilized power supply	View 6EP1434-2BA20 page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	View 6ES7432-1HF00-0AB0 page
6ES7414-3EM07-0AB0	SIMATIC S7-400 CPU	View 6ES7414-3EM07-0AB0 page
6GK1561-2AA00	SIMATIC PROFIBUS communications processor	View 6GK1561-2AA00 page
6ES7590-1AB60-0AA0	SIMATIC S7-1500 mounting rail	View 6ES7590-1AB60-0AA0 page
6AV2124-0QC02-0AX1	SIMATIC HMI TP1500 Comfort panel	View 6AV2124-0QC02-0AX1 page
6ES7954-8LC04-0AA0	SIMATIC 4 MB memory card	View 6ES7954-8LC04-0AA0 page
6EP3334-8SB00-0AY0	SITOP PSU8200 regulated power supply	View 6EP3334-8SB00-0AY0 page

MANUFACTURER SOURCE RECORD

Siemens Industry Mall product record

6SL3351-1AE37-5BA1 / product group 4929 / group code R2S7

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