

6SL3351-1AE37-5BA1

SINAMICS 745 A Replacement Power Block for Rectifier and U Phase

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6SL3351-1AE37-5BA1
Manufacturer part	6SL3351-1AE37-5BA1
Hardware type	Replacement power block
System family	SINAMICS AC Drive/Power Module



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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

- 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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐ Match the painted 745 A, 380-480 V execution to the installed AC Drive/Power Module.
- ☐ Apply power through the approved start-up sequence and review rectifier and phase diagnostics.
- ☐ Validate input conversion and U-phase output under controlled conditions before motor release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	6SL3351-1AE37-5BA1
INSTALLED POSITION	Documented SINAMICS AC Drive/Power Module 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
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
6ES7153-2AA02-0XB0	SIMATIC ET 200M interface module	View 6ES7153-2AA02-0XB0 page
6ED1052-1MD00-0BA5	LOGO! modular logic module	View 6ED1052-1MD00-0BA5 page
6ES7332-5HD01-0AB0	SIMATIC S7-300 analog output module	View 6ES7332-5HD01-0AB0 page

SOURCE IDENTIFIERS

Siemens Industry Mall product record

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

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