

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.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SINAMICS AC Drive/Power Module

PART

6SL3351-1AE37-5BA1

ORIGIN / HS

Germany / 85049090

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

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.

1

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

2

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

3

Retains painted power assemblies in the identified replacement configuration

4

Provides nickel-plated busbar interfaces for the specified power interconnections

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

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.

TECHNICAL DATA

PARAMETER	VALUE
Product type	Replacement power block
Supply system	3 AC
Voltage range	380-480 V
Line frequency	50/60 Hz
Rated current	745 A

PARAMETER	VALUE
Power section	Rectifier and U phase
Module finish	Painted
Busbar finish	Nickel-plated
Export classification	AL:N / ECCN:EAR99H
Quantity unit	1 piece

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER 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
6EP1333-4BA00	SIMATIC PM 1507 load power supply	View 6EP1333-4BA00 page
6SL3352-1AE37-5BA1	SINAMICS V/W-phase replacement power block	View 6SL3352-1AE37-5BA1 page
6SL3350-6TK00-0BA0	SINAMICS liquid-cooled control interface module	View 6SL3350-6TK00-0BA0 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Match the painted 745 A, 380-480 V execution to the installed AC Drive/Power Module.
- 7 Apply power through the approved start-up sequence and review rectifier and phase diagnostics.
- 8 Validate input conversion and U-phase output under controlled conditions before motor release.

ENGINEER FAQ

Q1 Which power sections are contained in 6SL3351-1AE37-5BA1?

It is the Siemens replacement power block for the rectifier and U-phase sections of the specified AC Drive/Power Module.

Q2 Which mains execution is specified for 6SL3351-1AE37-5BA1?

The matching drive execution is 380-480 V three-phase at 50/60 Hz with a 745 A rating.

Q3 What isolation sequence applies before replacing 6SL3351-1AE37-5BA1?

Isolate incoming power, secure the drive against reconnection and prove the DC link discharged before touching the rectifier or phase connections.

Q4 Which conductors must be identified before removing 6SL3351-1AE37-5BA1?

Identify incoming phases, DC-link conductors, U-phase output, gate-drive connections, sensors and protective bonding.

Q5 How should the nickel-plated busbars on 6SL3351-1AE37-5BA1 be handled?

Keep contact faces clean, inspect insulators and reuse only the documented fastening arrangement for the drive execution.

Q6 Can 6SL3351-1AE37-5BA1 substitute for a V/W-phase power block?

No; this article is identified for the rectifier and U-phase function and must remain in the matching position.

Q7 How is 6SL3351-1AE37-5BA1 commissioned after installation?

Restore the approved power connections, energize in a controlled sequence and verify rectifier diagnostics and U-phase output response.

Q8 Which evidence should be saved after servicing 6SL3351-1AE37-5BA1?

Save the identity, phase and busbar record, insulation and connection checks, diagnostic state and controlled test result.

SOURCE Siemens Industry Mall product record | 6SL3351-1AE37-5BA1 / product group 4929 / group code R2S7

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