

INDUSTRIAL AUTOMATION PRODUCT

6SL3300-1AH32-5BA0

SINAMICS Braking Module

It switches a connected braking resistor to dissipate regenerative DC-link energy in a compatible SINAMICS drive system.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS drive DC-link braking system
Part number	6SL3300-1AH32-5BA0
Country	Germany
HS code	8537101190

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Article number	6SL3300-1AH32-5BA0
Product designation	Braking Module
Rated braking power	50.00 kW
Maximum braking power	250.00 kW
DC-link voltage	890 to 1035 V DC
Digital inputs	1
Digital-input voltage	24 V DC
Input low level	-3 to 5 V
Input high level	15 to 30 V
Typical 24 V input current	10 mA
Digital outputs	1
Digital-output voltage	24 V DC
Maximum digital-output load	500 mA
Control conductor cross-section	1.5 mm ² maximum
PE connection	M8
Brake-resistor conductor cross-section	50.0 mm ² maximum

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System Role and Architecture

It switches a connected braking resistor to dissipate regenerative DC-link energy in a compatible SINAMICS drive system.

FUNCTION 1

Provides 50 kW rated braking duty

FUNCTION 2

Handles short-term braking demand up to 250 kW

FUNCTION 3

Monitors the high-voltage DC-link range

FUNCTION 4

Exchanges 24 V digital enable and status signals

Matched system components

- Compatible SINAMICS power unit
- Approved braking resistor
- DC-link and PE connections
- 24 V control wiring

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Compatible SINAMICS power unit
Companion hardware	Approved braking resistor
Field connection	DC-link and PE connections
Primary system function	Provides 50 kW rated braking duty
Controlled acceptance duty	Rapid deceleration of high-inertia loads

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Applications and Engineering Context

Rapid deceleration of high-inertia loads

Provides 50 kW rated braking duty

Hoist and crane braking

Handles short-term braking demand up to 250 kW

Test-stand energy dissipation

Monitors the high-voltage DC-link range

Drive-system retrofit engineering

Exchanges 24 V digital enable and status signals

TECHNICAL NOTE

Isolate the mains and DC link, confirm zero voltage, match the braking resistor and conductor sizing, verify PE continuity, and test the enable/status circuit before commanded deceleration.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3300-1AH32-5BA0 / 6SL3300-1AH32-5BA0 recorded
Physical interface	Compatible SINAMICS power unit
Companion check	Approved braking resistor
Functional proof	Provides 50 kW rated braking duty
Application test	Rapid deceleration of high-inertia loads

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Engineering Precautions

1

Verify the complete 6SL3300-1AH32-5BA0 marking and the assigned SINAMICS drive DC-link braking system position before work.

2

Place the connected machine or process in the approved maintenance state before disturbing 6SL3300-1AH32-5BA0.

3

Isolate the applicable power and field energy, then confirm a safe state before disconnecting 6SL3300-1AH32-5BA0.

4

Record connector, conductor, slot and configuration identities before removal of 6SL3300-1AH32-5BA0.

5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies during handling.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7315-2AH14-0AB0	Related Siemens product	View 6ES7315-2AH14-0AB0 page
6ES7332-7ND02-0AB0	Related Siemens product	View 6ES7332-7ND02-0AB0 page
6ES7215-1HG40-0XB0	Related Siemens product	View 6ES7215-1HG40-0XB0 page
6ES7136-6BA00-0CA0	Related Siemens product	View 6ES7136-6BA00-0CA0 page
6ES7131-6BF00-0BA0	Related Siemens product	View 6ES7131-6BF00-0BA0 page
9AC9100-0AA10	Related Siemens product	View 9AC9100-0AA10 page
7RE2800-0CA00	Related Siemens product	View 7RE2800-0CA00 page
6DS1723-8BA	Related Siemens product	View 6DS1723-8BA page

MANUFACTURER SOURCE RECORD

Siemens Industry Mall technical data sheet

6SL3300-1AH32-5BA0

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