6SL3300-1AH32-5BA0

SINAMICS Braking Module

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

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SINAMICS drive DC-link braking system

PART
6SL3300-1AH32-5BA0

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PRODUCT OVERVIEW

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

1. Provides 50 kW rated braking duty
2. Handles short-term braking demand up to 250 kW
3. Monitors the high-voltage DC-link range
4. Exchanges 24 V digital enable and status signals

SYSTEM COMPONENTS

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

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 mm2 maximum
PE connection	M8
Brake-resistor conductor cross-section	50.0 mm2 maximum

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
39SAMCAN-16133-71-04	Related Siemens product	**View 39SAMCAN-16133-71-04 page**
39RTMCAN-16207-61-13	Related Siemens product	**View 39RTMCAN-16207-61-13 page**
39RTMCAN-16207-61-10	Related Siemens product	**View 39RTMCAN-16207-61-10 page**
39RTMCAN-16207-61-11	Related Siemens product	**View 39RTMCAN-16207-61-11 page**
39MBXNAN-16180-1-17	Related Siemens product	**View 39MBXNAN-16180-1-17 page**
39MBXNAN-16180-1-14	Related Siemens product	**View 39MBXNAN-16180-1-14 page**
39EAMCBN-A5E00282025-05	Related Siemens product	**View 39EAMCBN-A5E00282025-05 page**
39EAMCBN-16154-93-3	Related Siemens product	**View 39EAMCBN-16154-93-3 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
6. Confirm that the installed companion hardware and approved project match the 6SL3300-1AH32-5BA0 arrangement.
7. Restore power in a controlled sequence and review device, rack and host diagnostics.
8. Prove the intended function and retain the final test result before returning 6SL3300-1AH32-5BA0 to service.

ENGINEER FAQ

Q1 Does 6SL3300-1AH32-5BA0 match Compatible SINAMICS power unit in a Rapid deceleration of high-inertia loads installation?

Verify the complete 6SL3300-1AH32-5BA0 marking, the documented SINAMICS drive DC-link braking system position and the installed Compatible SINAMICS power unit before fitting the assembly.

Q2 How should 6SL3300-1AH32-5BA0 be wired when it must provides 50 kw rated braking duty?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SL3300-1AH32-5BA0; then continuity-test the affected path.

Q3 Which SINAMICS drive DC-link braking system records should be captured before removing 6SL3300-1AH32-5BA0?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SL3300-1AH32-5BA0 before disconnection.

Q4 What controlled test confirms that 6SL3300-1AH32-5BA0 can handles short-term braking demand up to 250 kw?

Apply the approved field or simulated stimulus, observe the SINAMICS drive DC-link braking system indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Approved braking resistor condition should be checked when 6SL3300-1AH32-5BA0 reports an abnormal state?

Check the Approved braking resistor supply, seating and connection first, then compare channel diagnostics with the recorded 6SL3300-1AH32-5BA0 baseline.

Q6 Can 6SL3300-1AH32-5BA0 be moved directly into Hoist and crane braking without validating 24 V control wiring?

No. Confirm the 24 V control wiring, revision, connection scheme and SINAMICS drive DC-link braking system configuration before transferring 6SL3300-1AH32-5BA0 to that duty.

Q7 What maintenance evidence is required after 6SL3300-1AH32-5BA0 is used for Test-stand energy dissipation?

Retain the nameplate record, corrective action, final diagnostics and a controlled test-stand energy dissipation functional-test result for 6SL3300-1AH32-5BA0.

Q8 How should 6SL3300-1AH32-5BA0 be returned to service in Drive-system retrofit engineering?

Restore power under control, verify monitors the high-voltage dc-link range, exercise the intended signal path and release 6SL3300-1AH32-5BA0 only after the SINAMICS drive DC-link braking system remains in its approved operating state.

SOURCE Siemens Industry Mall technical data sheet | 6SL3300-1AH32-5BA0

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