

6SL3985-6TM00-0AA0

SINAMICS TAS21E thyristor electronics for crowbar control

CONTROLLED ENGINEERING COPY

Follow the SINAMICS GM150 medium-voltage isolation and discharge procedure before handling 6SL3985-6TM00-0AA0; verify the 2.3 kV TAS21E execution, trigger harness and crowbar interlocks, then complete the approved protection acceptance test before drive release.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6SL3985-6TM00-0AA0
Manufacturer part	6SL3985-6TM00-0AA0
Hardware type	6SL3985-6TM00-0AA0
System family	SINAMICS GM150 IGBT medium-voltage drive



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 6SL3985-6TM00-0AA0 marking and the assigned SINAMICS GM150 IGBT medium-voltage drive position before work.
- 2

Place the connected machine or process in the approved maintenance state before disturbing 6SL3985-6TM00-0AA0.
- 3

Isolate the applicable power and field energy, then confirm a safe state before disconnecting 6SL3985-6TM00-0AA0.
- 4

Record connector, conductor, slot and configuration identities before removal of 6SL3985-6TM00-0AA0.
- 5

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

MATCHED HARDWARE

- SINAMICS GM150 IGBT converter
- 2.3 kV crowbar short-circuiting device
- documented triggering harness
- approved protection and drive project

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	6SL3985-6TM00-0AA0 / 6SL3985-6TM00-0AA0 recorded
Physical interface	SINAMICS GM150 IGBT converter
Companion check	2.3 kV crowbar short-circuiting device
Functional proof	Provides TAS21E firing electronics for the crowbar device
Application test	Medium-voltage drive protection service

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Article number	6SL3985-6TM00-0AA0
Component designation	TAS21E
Equipment class	Thyristor electronics
Control function	Crowbar control
Drive family	SINAMICS GM150
Power-semiconductor execution	IGBT
Drive voltage class	2.3 kV
Quantity unit	1 piece

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	SINAMICS GM150 IGBT converter
Companion hardware	2.3 kV crowbar short-circuiting device
Field connection	documented triggering harness
Primary system function	Provides TAS21E firing electronics for the crowbar device
Controlled acceptance duty	Medium-voltage drive protection service

FIELD NOTE

Follow the SINAMICS GM150 medium-voltage isolation and discharge procedure before handling 6SL3985-6TM00-0AA0; verify the 2.3 kV TAS21E execution, trigger harness and crowbar interlocks, then complete the approved protection acceptance test before drive release.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	6SL3985-6TM00-0AA0 / 6SL3985-6TM00-0AA0 recorded
Physical interface	SINAMICS GM150 IGBT converter
Companion check	2.3 kV crowbar short-circuiting device
Functional proof	Provides TAS21E firing electronics for the crowbar device
Application test	Medium-voltage drive protection service

04 RETURN-TO-SERVICE RECORD

- ☐ Confirm that the installed companion hardware and approved project match the 6SL3985-6TM00-0AA0 arrangement.
- ☐ Restore power in a controlled sequence and review device, rack and host diagnostics.
- ☐ Prove the intended function and retain the final test result before returning 6SL3985-6TM00-0AA0 to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	6SL3985-6TM00-0AA0
INSTALLED POSITION	Documented SINAMICS GM150 IGBT medium-voltage drive 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
6ES7131-4BD01-0AA0	Related Siemens product	View 6ES7131-4BD01-0AA0 page
6GK1162-3AA00	Related Siemens product	View 6GK1162-3AA00 page
C98043-A7105-L4-9	Related Siemens product	View C98043-A7105-L4-9 page
6ES7653-2CE00-0XB0	Related Siemens product	View 6ES7653-2CE00-0XB0 page
6ES7653-2CC00-0XB0	Related Siemens product	View 6ES7653-2CC00-0XB0 page
6GK1503-3CD00	Related Siemens product	View 6GK1503-3CD00 page
6ES7312-5BF04-0AB0	Related Siemens product	View 6ES7312-5BF04-0AB0 page
6ES7392-1AM00-0AA0	Related Siemens product	View 6ES7392-1AM00-0AA0 page

SOURCE IDENTIFIERS

Siemens SINAMICS GM150 product and equipment documentation
6SL3985-6TM00-0AA0 / TAS21E

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