

INDUSTRIAL AUTOMATION PRODUCT

6SL3985-6TM00-0AA0

SINAMICS TAS21E thyristor electronics for crowbar control

It triggers the documented crowbar short-circuiting device used to protect the DC-link and power-converter section of a 2.3 kV SINAMICS GM150 IGBT drive.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS GM150 IGBT medium-voltage drive
Part number	6SL3985-6TM00-0AA0
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	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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED 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

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System Role and Architecture

It triggers the documented crowbar short-circuiting device used to protect the DC-link and power-converter section of a 2.3 kV SINAMICS GM150 IGBT drive.

FUNCTION 1
Provides TAS21E firing electronics for the crowbar device

FUNCTION 2
Matches the 2.3 kV GM150 IGBT execution

FUNCTION 3
Interfaces the installed protection and triggering circuits

FUNCTION 4
Supports crowbar readiness and trip-path acceptance testing

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
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

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Applications and Engineering Context

Medium-voltage drive protection service

Provides TAS21E firing electronics for the crowbar device

Crowbar trigger-path restoration

Matches the 2.3 kV GM150 IGBT execution

GM150 power-section maintenance

Interfaces the installed protection and triggering circuits

Controlled protection-function commissioning

Supports crowbar readiness and trip-path acceptance testing

TECHNICAL 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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

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Engineering Precautions

- 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7432-1HF00-0AB0	Related Siemens product	View 6ES7432-1HF00-0AB0 page
6EP1434-2BA20	Related Siemens product	View 6EP1434-2BA20 page
6ES7332-5HF00-0AB0	Related Siemens product	View 6ES7332-5HF00-0AB0 page
6ES7234-4HE32-0XB0	Related Siemens product	View 6ES7234-4HE32-0XB0 page
6AV6545-0DB10-0AX0	Related Siemens product	View 6AV6545-0DB10-0AX0 page
6ES7422-1BL00-0AA0	Related Siemens product	View 6ES7422-1BL00-0AA0 page
6ES7421-1BL01-0AA0	Related Siemens product	View 6ES7421-1BL01-0AA0 page
6ES7151-1AA06-0AB0	Related Siemens product	View 6ES7151-1AA06-0AB0 page

MANUFACTURER SOURCE RECORD

Siemens SINAMICS GM150 product and equipment documentation

6SL3985-6TM00-0AA0 / TAS21E

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