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.

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SINAMICS GM150 IGBT medium-voltage drive

PART
6SL3985-6TM00-0AA0

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PRODUCT OVERVIEW

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.

1. Provides TAS21E firing electronics for the crowbar device
2. Matches the 2.3 kV GM150 IGBT execution
3. Interfaces the installed protection and triggering circuits
4. Supports crowbar readiness and trip-path acceptance testing

SYSTEM COMPONENTS

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

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.

TECHNICAL DATA

PARAMETER	VALUE
Article number	6SL3985-6TM00-0AA0
Component designation	TAS21E
Equipment class	Thyristor electronics
Control function	Crowbar control

PARAMETER	VALUE
Drive family	SINAMICS GM150
Power-semiconductor execution	IGBT
Drive voltage class	2.3 kV
Quantity unit	1 piece

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7132-4BD32-0AA0	Related Siemens product	**View 6ES7132-4BD32-0AA0 page**
6ES7212-1AF40-0XB0	Related Siemens product	**View 6ES7212-1AF40-0XB0 page**
6ES7217-1AG40-0XB0	Related Siemens product	**View 6ES7217-1AG40-0XB0 page**
6ES7215-1AG40-0XB0	Related Siemens product	**View 6ES7215-1AG40-0XB0 page**
6ES7212-1HE40-0XB0	Related Siemens product	**View 6ES7212-1HE40-0XB0 page**
6ES7212-1BE40-0XB0	Related Siemens product	**View 6ES7212-1BE40-0XB0 page**
6ES7211-1BE40-0XB0	Related Siemens product	**View 6ES7211-1BE40-0XB0 page**
6ES7211-1AE40-0XB0	Related Siemens product	**View 6ES7211-1AE40-0XB0 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
6. Confirm that the installed companion hardware and approved project match the 6SL3985-6TM00-0AA0 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 6SL3985-6TM00-0AA0 to service.

ENGINEER FAQ

Q1 Does 6SL3985-6TM00-0AA0 match SINAMICS GM150 IGBT converter in a Medium-voltage drive protection service installation?

Verify the complete 6SL3985-6TM00-0AA0 marking, the documented SINAMICS GM150 IGBT medium-voltage drive position and the installed SINAMICS GM150 IGBT converter before fitting the assembly.

Q2 How should 6SL3985-6TM00-0AA0 be wired when it must provides tas21e firing electronics for the crowbar device?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SL3985-6TM00-0AA0; then continuity-test the affected path.

Q3 Which SINAMICS GM150 IGBT medium-voltage drive records should be captured before removing 6SL3985-6TM00-0AA0?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SL3985-6TM00-0AA0 before disconnection.

Q4 What controlled test confirms that 6SL3985-6TM00-0AA0 can matches the 2.3 kv gm150 igbt execution?

Apply the approved field or simulated stimulus, observe the SINAMICS GM150 IGBT medium-voltage drive indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 2.3 kV crowbar short-circuiting device condition should be checked when 6SL3985-6TM00-0AA0 reports an abnormal state?

Check the 2.3 kV crowbar short-circuiting device supply, seating and connection first, then compare channel diagnostics with the recorded 6SL3985-6TM00-0AA0 baseline.

Q6 Can 6SL3985-6TM00-0AA0 be moved directly into Crowbar trigger-path restoration without validating approved protection and drive project?

No. Confirm the approved protection and drive project, revision, connection scheme and SINAMICS GM150 IGBT medium-voltage drive configuration before transferring 6SL3985-6TM00-0AA0 to that duty.

Q7 What maintenance evidence is required after 6SL3985-6TM00-0AA0 is used for GM150 power-section maintenance?

Retain the nameplate record, corrective action, final diagnostics and a controlled gm150 power-section maintenance functional-test result for 6SL3985-6TM00-0AA0.

Q8 How should 6SL3985-6TM00-0AA0 be returned to service in Controlled protection-function commissioning?

Restore power under control, verify interfaces the installed protection and triggering circuits, exercise the intended signal path and release 6SL3985-6TM00-0AA0 only after the SINAMICS GM150 IGBT medium-voltage drive remains in its approved operating state.

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

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