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scan abort with CT_SDN_E_3 error and F1 or customer side mains breaker trip (i.e. Wall Switch Q1) due to defective HVT - Troubleshooting hints

Document Type: Information
Products: SOMATOM go.

Description

Troubleshooting hints for cases of scan abort with CT_SDN_E_3 error and F1 or customer side mains breaker trip (i.e. Wall Switch Q1) due to defective HVT

CT_SDN_E SiDaNet Communication to mandatory devices is incomplete or down

There are already several SKBs covering the cases of PDS.F1 breaker tripping, like the below listed ones.

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SKB0118625 F1 tripped sporadically leading to system down >> due to defective RCMA

SKB0106211 System dropped out of STANDBY / Scan abort with errors

CT_XRA_E_297 and CT_XRA_E_298 or F1 suddenly tripped >> due to tube burst (tube defective)

SKB0130297 System drops out of standby during rotation scan, and all GBOX

LEDs are turned off immediately: due to HVT and W651 routing >> typically symptom "SiDaNet down" which was resulted by no voltage output from G-Box

SKB0120249 Scan abort with error CT_XRA_E_261 / CT_XRA_E_270 caused by cable W651 connection.

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The aim of this SKB is to provide hints for troubleshooting where the CUSTOMER MAINS breaker tripped (sometimes with PDS.F1 tripping, sometimes without F1 tripping). In case a Wall Switch is installed the affected breaker is Q1.

Information For Customer

information for service

Resolution

Troubleshooting hints:

SDN_3 is only a follow-up error since Q1/F1 is tripped. The CSE shall focus on tripped Q1/F1.

In order to avoid further tripping and damage the CSE shall activate the service switch S4 on PDS control, so that gantry rotating part is not powered ON but ICS will start up and the CSE will be able to check logs.

- If based on logs there is error of CT_XRA_E_297 and CT_XRA_E_298 , the CSE shall follow the guidance of SKB0106211
- If only F1 of our system is tripped, the CSE shall refer to SKB0118625
- If both F1 in CT system is and Q1 in customer's power panel is tripped sporadically, the CSE shall check the HV chain from **main >> PDS >> Slipring >> G-Box >> HVT >> Tube.**

Solution:

If there is no shortcut/burn observed, then replace the HVT as next step and make sure that W651 is routed correctly according to SKB0120249

11115466 Service Part aCTivate HVT HP or 11115468 Service Part aCTivate HVT LP depending on system type.

Note: There was only one case (in R&D lab) before that tripped F1/Q1 was resulted by a high earth leakage inside G-Box. This is rare case.

Applies to

see "Products"

Keywords: F1 breaker, Q1 breaker, Wall Switch, RCD520B

Attachments

 [Q1_at_wallswitch_cabinet.png](#) ACL 30 - Partner (Country)

 [3VA91140RL21_datasheet_en.pdf](#) ACL 30 - Partner (Country)

Document links

[System dropped out of STANDBY / Scan abort with errors CT_XRA_E_297 and CT_XRA_E_298 or F1 suddenly tripped](#) (SKB0106211)

[F1 tripped sporadically leading to system down](#) (SKB0118625)

[Scan abort with error CT_XRA_E_261 / CT_XRA_E_270 caused by cable W651 connection](#) (SKB0120249)

[System drops out of standby during rotation scan, and all GBOX LEDs are turned off immediately: due to HVT and W651 routing](#) (SKB0130297)

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