

Prüfurfkunde - Test Certificate**SM-2558 Ethernet-Interf. 1x100TX,(+1SS)****BC2-558--****SM-2558 Ethernet-Interf. 1x100TX,(+1SI)****6MF10130CF580AA0BB****Elektrische Sicherheit / Isolation - Electrical safety / Isolation**

Prüfung - Test: Isol. Wechselfspg. - Dielectric test	Datum - Date: 16.04.13
Norm - Standard: IEC 60255-5:2000	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Isol. Stoßspg. - Impulse voltage test	Datum - Date: 16.04.13
Norm - Standard: IEC 60255-5:2000	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Safety requirements -	Datum - Date: 20.07.15
Norm - Standard: IEC 61010-1:2010	Protokoll - Protocol: BC2_TÜV-15-116

Elektromagnetische Verträglichkeit - Electromagnetic compatibility

Prüfung - Test: Störfeldstärke - Emission	Datum - Date: 16.04.13
Norm - Standard: CISPR 22:2008	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. ESD - ESD immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-2:2008	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. HF-Feld - EM field immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-3:2006	Protokoll - Protocol: 2258--TUV13-136
Prüfung - Test: Imm. Burst - Burst immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-4:2012	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. Surge 1,2/50 - Surge imm. 1,2/50µs	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-5:2005	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. HF induziert - Cond. dist. immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-6:2008	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. Magnetfeld 50Hz - HF 50Hz immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-8:2009	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. Magnetfeld Puls - Magn. pulse immunity	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-9:1993	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. 1MHz gedämpft - Oscillatory waves	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-18:2006	Protokoll - Protocol: 2558--TUV13-136
Prüfung - Test: Imm. comm mode dist - Imm. comm mode dist	Datum - Date: 16.04.13
Norm - Standard: IEC 61000-4-16:1998	Protokoll - Protocol: 2558--TUV13-136

Umweltprüfungen - Environmental testing

Prüfung - Test: Erdbebenprüfung - Seismic test	Datum - Date: 22.05.13
Norm - Standard: IEC 60255-21-3:1993	Protokoll - Protocol: 5111GS-68_AIT13-05
Prüfung - Test: Environm. conditions - Environm. conditions	Datum - Date: 22.05.13
Norm - Standard: IEC 60870-2-2:1996	Protokoll - Protocol: 5111GS-68_AIT13-05
Prüfung - Test: Klima - Climatic test	Datum - Date: 02.05.13
Norm - Standard: IEC 60068-2-x:	Protokoll - Protocol: 2558-S30_00

Prüfurfkunde - Test Certificate

SM-2558 Ethernet-Interf. 1x100TX,(+1SS)

BC2-558--

SM-2558 Ethernet-Interf. 1x100TX,(+1SI)

6MF10130CF580AA0BB

Prüfung - Test: Fc: Schwingen - Vibrations

Datum - Date: 22.05.13

Norm - Standard: IEC 60068-2-6:2007

Protokoll - Protocol: 5111GS-68_AIT13-05

Prüfung - Test: Ea: Schock - Shock

Datum - Date: 22.05.13

Norm - Standard: IEC 60068-2-27:2008

Protokoll - Protocol: 5111GS-68_AIT13-05

Der Prüfgegenstand hat die Prüfungen bestanden. Nach Abschluss der Prüfungen waren die Eigenschaften unverändert und der Prüfgegenstand voll funktionsfähig.

The equipment has successfully passed the type test. The equipment did not show any changes and was fully in order subsequent to these tests.

Siemens AG Österreich

RC-AT EM Energy Automation Products
Development

Wien - Vienna, 14.08.2015

Page 2 of 2

Schachinger
Michael

Prüfer / Tested by:

Digitally signed by Schachinger Michael
DN: serialNumber=Z001V63N,
givenName=Michael, sn=Schachinger,
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Date: 2015.09.07 10:40:27 +02'00'

Geprüft - Reviewed by:

i.A. Stern Peter

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sn=Stern, o=Siemens, cn=Stern Peter
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Name / Unterschrift - Signature

TEST REPORT

M/IT-15/116

about the following
IT - test-/ research

Applicant: Siemens AG Österreich
Ruthnergasse 3
Austria; 1210 Wien

Product: SICAM AK3:
AI-2300; AI-2302; AI-2303; DI-2112; DI-2113; DI-2114; DI-2115;
DO-2201; DO-2211; SM-2507; DO-2210; SM-2506; CP-2016;
CP-2017; CP-2019; SM-2558; SM-0570; SM-0571; SM-0572

Serial Number: ---

Standard: IEC 61010-1:2010; EN 61010-1:2010

File: BC2_TÜV-15-116.pdf

TÜV AUSTRIA SERVICES GMBH
Test laboratory for Telecommunication

Checked by

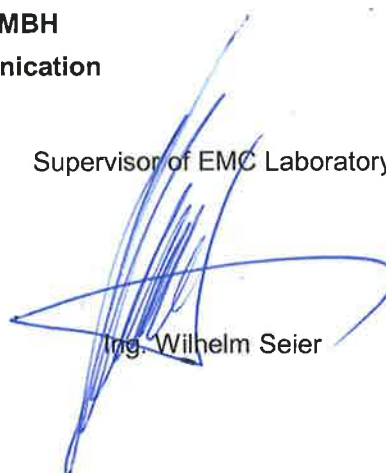

Ing. Stefan Matzner



20.07.2015

Copy Nr.: 

Supervisor of EMC Laboratory


Ing. Wilhelm Seier

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TÜV®



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Gauge laboratory,
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laboratory

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The results of this test report only refer to the provided equipment.

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1. Applicant

Company: Siemens AG Österreich
Department Energy Automation Development
Address Austria; 1210 Wien; Ruthnergasse 3
Contact Person Mr. Michael SCHACHINGER

EUT received on 18.06.2015
Date of test 18.06.2015 - 17.07.2015

2. Description of EUT

EUT	AI-2300; AI-2302; AI-2303; DI-2112; DI-2113; DI-2114; DI-2115; DO-2201; DO-2211; SM-2507; DO-2210; SM-2506; CP-2016; CP-2017; CP-2019; SM-2558; SM-0570; SM-0571; SM-0572
Serial Number	---
Manufacturer:	Siemens AG Österreich
Description	Siemens AG Österreich provided the following configuration for the measurements: Dell Laptop; Power supplies: PS-2632; PS-6630; SSP-7080; EA-7060-100; EA-3049A; Electrical load: ELA 200/40/40 D SICAM AK3 System with: DO-2211, DO-2201, DI-2115, AI-2300 (SM-0570, 3x SM-0570), CP-2019 (SM-2558), CP-2017, CP-2016, SM-2507, DO-6212, PE-6412, CM-0842

3. Standards / Final Result

Name	Title	Deviations	Result
IEC 61010-1:2010 EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements	---	PASS.
PASS EUT passed FAIL EUT failed			

TEST REPORT
IEC 61010-1
Safety requirements for electrical equipment for measurement,
control, and laboratory use
Part 1: General requirements

Report Number: M/IT-15/116
 Date of issue: 20.07.2015
 Total number of pages.....: 83

Applicant's name.....: Siemens AG Österreich
 Address: Austria; 1210 Wien; Ruthnergasse 3

Test specification:

Standard: IEC 61010-1:2010 (Third Edition)
 EN 61010-1:2010
 Test procedure: ~~CB~~ Scheme
 Non-standard test method: ---

Test Report Form No.: IEC61010_1J
 Test Report Form(s) Originator: VDE Testing and Certification Institute
 Master TRF.....: 2013-11



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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description: SICAM AK3 line
 Trade Mark: **SIEMENS**
 Manufacturer.....: Siemens AG Österreich
 Model/Type reference: AI-2300; AI-2302; AI-2303; DI-2112; DI-2113; DI-2114;
 DI-2115; DO-2201; DO-2211; SM-2507; DO-2210; SM-2506;
 CP-2016; CP-2017; CP-2019; SM-2558; SM-0570; SM-0571;
 SM-0572
 Ratings: AI-2300, AI-2302, AI-2303: 5VDC±5%; 2,5W; DI-2112, DI-2113,
 DI-2114, DI-2115: 5VDC±5%; 1W; DO-2201: 5VDC±5%; 0,6W;
 DO-2211 with SM-2507: 5VDC±5%; 1,6W; DO-2210 with SM-2506:
 5VDC±5%; 1,6W; CP-2016: 5VDC±5%; 4,5W; CP-2017: 5VDC±5%;
 4W; CP-2019: 5VDC±5%; 4,4W; SM-2558: 5VDC±5%; 525mA;
 SM-0570: 5VDC±5%; 0,6W; SM-0571: 5VDC±5%; 0,9W;
 SM-0572: 5VDC±5%; 1,5W;

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	TÜV AUSTRIA SERVICES GMBH
Testing location/ address		Deutschstrasse 10 Austria; 1230 Wien
<input type="checkbox"/>	Associated CB Laboratory:	
Testing location/ address		
	Tested by (name + signature).....:	Ing. Stefan Matzner 
	Approved by (name + signature)	Ing. Wilhelm Seier 
<input type="checkbox"/>	Testing procedure: TMP	
Testing location/ address		
	Tested by (name + signature).....:	
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<input type="checkbox"/>	Testing procedure: WMT	
Testing location/ address		
	Tested by (name + signature).....:	
	Witnessed by (name + signature).....:	
	Approved by (name + signature)	
<input type="checkbox"/>	Testing procedure: SMT	
Testing location/ address		
	Tested by (name + signature).....:	
	Approved by (name + signature)	
	Supervised by (name + signature).....:	
<input type="checkbox"/>	Testing procedure: RMT	
Testing location/ address		
	Tested by (name + signature).....:	
	Approved by (name + signature)	
	Supervised by (name + signature).....:	

Report

Project Designation

Vibration- and Shocktests on SICAM 1703 BC

Client

Siemens AG Österreich
Sector Energy
Division Power Distribution
zH. Herrn Herbert Stefl
Ruthnergasse 3
1210 Wien, Österreich

Order from / No

15. 2. 2013 / Stefl

Project number

2.05.00929.1.0-1813

Test Engineer

Wolfgang Schinhan

Date of issue	22 Mai 2013
Total number of issues / No	PDF
Number of pages	20
Annex: number of pages	-

The results relate exclusively to the terms tested.

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Applicant

Siemens AG Österreich
Ruthnergasse 3, A-1210 Vienna

Project description

Environmental testing Vibration and shock on
SICAM 1703
Project "successor 80251" and
Project "successor Netarm"

Inspection request

TTS_Successor_Netarm_V1_02.pdf for SM-2558,
TTS_Successor80251_V1_03.pdf for Modules DI-5110/11, DO-5203, DO-5212, AI-5313

Test object (EUT)

Serial numbers of modules – vibration and shock tests SICAM 1703 BC
Project "successor 80251" 2013-05-15 until 2013-05-16

* Test specimen:	Module	serial number	Revision	PBA
	SM-2558	BF1303 585660	-.01	vert (z)
	SM-2558	BF1301 546075	-.01	hor (long, trans =x,y)
	DI-5110	BF1302 516331	A.02	4
	DO-5203	BF1302 539633	A.01	5
	DO-5212	BC5-212-A.02/251-001	A.02	6
	AI-5313	BF1204 150111	-.00	9

* Auxiliary equipment:	Module	serial number	Revision
	CP-5014:	BF1112 087661	-.16
	SM-0551	BF1210 054386	-.11
	PS-5622:	BF1112 109455	E.05
	CM-5884:	BF1201 064643	

* Identification of loaded Application (1703 Toolbox II) on CP-5014 under test:

Database: VIEQ
Customer-ID: QWT-0005
Customer: BC1703 ACP Prüfanlag
Plant-ID: QWT-00050000
Plant short des.:BC1703ACP
Region #: 0
Region name.: BC1703ACP Typ
Loaded AU (Automation Unit):
Comp. #: 241
AU short des.:BC Arsenal mit CP5014

Function test after vibration:

Database: VIEQ
Customer-ID: QWT-0005
Customer: BC1703 ACP Prüfanlag
Plant-ID: QWT-00050000
Plant short des.:BC1703ACP
Region #: 0
Region name.: BC1703ACP Typ
Loaded AU (Automation Unit):
Comp. #: 20
AU short des.: Succ5203/12,5313

Test equipment

Electrodynamic Vibration Exciter System LDS V864 HT-440

Date of delivery: 15. Mai 2013
Date of tests: 15. Mai – 16. Mai 2013

Test Result

The sample has passed the environmental tests vibration and shock as listed in the Summary.

Test performed by

Head of Business Unit

.....

Summary

Clause		Test	Severities	Result
Succ 80251	Succ Netarm			
4.2.1	4.5.1	Environmental testing – Part 2-6: Tests -Test Fc: Vibration (sinusoidal)	IEC 60068-2-6 10 – 150 Hz, 1g 10 Cycles	OK
4.2.1	4.5.1	Telecontrol equipment and systems - Part 2: Operating conditions - Section 2: Environmental conditions (climatic, mechanical and other non electrical influences)	IEC 60870-2-2 9 - 200Hz, 1,0g, 200 - 500Hz, 1,5g 1 Cycle	OK
4.2.1	4.5.1	Environmental testing – Part 2-27: Tests -Test Ea and guidance: Shock	IEC 60068-2-27 15g , 11ms 18 Shocks	OK
4.2.1	4.5.1	Environmental testing – Part 2-27: Tests -Test Ea and guidance: Shock	IEC 60068-2-27 10g, 16ms 6000 Shocks	OK
4.2.1	4.5.1	Seismic harmonic sinus	IEC60068-3-3 Class 1	OK
OK NOK	EUT passed EUT failed			

Applicant

Siemens AG Österreich

Department

Energy Automation Development

Address

Ruthnergasse 3, A-1210 Vienna

Contact person

Mr. Herbert Stefl

Department: IC-SG EA PRO D	TEST REPORT		SIEMENS	
Tested by / on: H.Steff /2013-05-02	Re: Environmental Testing Cold / Dry Heat / Damp Heat Kapoun Helmut <small>Data signed by Kapoun Helmut DN: serialNumber=20010010, givenName=Helmut, o=Kapoun, email=Helmut.Kapoun@siemens.com, Date: 2013.05.18 15:26:29 +02:00</small>		Report no.: 2558-S30_00	
Released by / on: Kapoun H./ 2013-06-18			Account / Request no.: S.61632.06.50.05.50	
File: 2558-S30_00.doc			Issued in / on.: Vienna, 2013-05-13	
			Product: SM-2558	Sheet: 1

1. Requirements and Standards Applied

Test requirement acc. to:

Type test specification TTS_Successor Netarm_V1_01.doc

Test setup and execution were to comply with the following test standard:

- IEC 60068-2-1 (2007-03)** Environmental testing -
Part 2: Tests; Tests A: Cold
(EN 60068-2-1:2007-04)
- IEC 60068-2-2 (2007-07)** Basic environmental testing procedures -
Part 2: Tests; Tests B: Dry heat
(= EN 60068-2-2:2007-09)
- IEC 60068-2-78 (2001-08)** Environmental testing -
Part 2-78: Tests; Test Cab: Damp heat, steady state
(= EN 60068-78:2001-10)

2. Summary of Test Result

The module **SM-2558** has **passed** the environmental test according to the test requirement when subjected to cold (-25°C), dry heat (70°C/10%) and damp heat (40°C/98%).

Clause of TTS	Test	Severities	Result
4.4.2	Environmental testing – Part 2-2: Tests -Test B: Dry heat	IEC 60068-2-2 70°C/10% for 24h (=1d)	Okay
4.4.3	Environmental testing – Part 2-1: Tests -Test A: Cold	IEC 60068-2-1 -25°C for 24h (=1d)	Okay
4.4.4	Environmental testing – Part 2-78: Tests -Test Cab: Damp heat, steady state	IEC 60068-2-78 40 °C/93% for 48h (=2d)	Okay