

AI-5300 Analoge Eingabe 8x ±20mA

BC5-300--

AI-5300 Analog Input 8x ±20mA

6MF10130FD000AA1

Funktionsprüfungen - Functional testing

Prüfung - Test: Funktion - Functional test

Datum - Date: 23-01-2008

Norm - Norm: ---:

Protokoll - Protocol: 5306-S00_00

Elektrische Sicherheit / Isolation - Electrical safety / Isolation

Prüfung - Test: Isol. Wechselspg. - Dielectric test

Datum - Date: 28-11-2007

Norm - Norm: IEC 60255-5:2000

Protokoll - Protocol: 5306-S55_00

Prüfung - Test: Isol. Stoßspg. - Impulse voltage test

Datum - Date: 28-11-2007

Norm - Norm: IEC 60255-5:2000

Protokoll - Protocol: 5306_S55_00

Elektromagnetische Verträglichkeit - Electromagnetic compatibility

Prüfung - Test: Störfeldstärke - Emission

Datum - Date: 26-11-2007

Norm - Norm: CISPR 22:2005

Protokoll - Protocol: 5306-S22_00

Prüfung - Test: Imm. ESD - ESD immunity

Datum - Date: 16-11-2007

Norm - Norm: IEC 61000-4-2:1995

Protokoll - Protocol: 5306-S02_00

Prüfung - Test: Imm. HF-Feld - EM field immunity

Datum - Date: 03-12-2007

Norm - Norm: IEC 61000-4-3:2006

Protokoll - Protocol: 5603-S03_00

Prüfung - Test: Imm. Burst - Burst immunity

Datum - Date: 15-11-2007

Norm - Norm: IEC 61000-4-4:2004

Protokoll - Protocol: 5306-S04_00

Prüfung - Test: Imm. Surge 1,2/50 - Surge imm. 1,2/50µs

Datum - Date: 21-11-2007

Norm - Norm: IEC 61000-4-5:1995

Protokoll - Protocol: 5306-S05_00

Prüfung - Test: Imm. HF induziert - Cond. dist. immunity

Datum - Date: 15-11-2007

Norm - Norm: IEC 61000-4-6:2003

Protokoll - Protocol: 5306-S06_00

Prüfung - Test: Imm. Magnetfeld 50Hz - HF 50Hz immunity

Datum - Date: 26-11-2007

Norm - Norm: IEC 61000-4-8:1993

Protokoll - Protocol: 5306-S08_00

Prüfung - Test: Imm. Magnetfeld Puls - Magn. pulse immunity

Datum - Date: 26-11-2007

Norm - Norm: IEC 61000-4-9:1993

Protokoll - Protocol: 5306-S09_00

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 ÖsterreichEnergy Automation Development
E A D TC2

Wien - Vienna, 03-11-2009

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Prüfer - Tested by:




Name / Unterschrift - Signature

Geprüft - Reviewed by:



Name / Unterschrift - Signature

Department: PTD EA D TC2-3	TEST REPORT			
Tested by / on: H. STEFL / 2008-01-23	Re: Environmental Testing Functional and Temperature test	Report no.: 5306-S00_00		
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11		
File: 5306-s00_00.doc		Issued in / on.: Vienna, 2008-01-25		
		Products: AI-5300 / AI-5306	Sheet: 1	Sheets: 15

1 Requirements


Test requirement acc. to:

BC 1703 ACP

FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3

2 Summary of Test Result

The modules **AI-5306** has **passed** the function and temperature tests according to the test requirement.

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: H. STEFL / 2007-11-16	Re: EMC TYPE TESTING Electrostatic discharge immunity test	Report no.: 5306-S02_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S02_00.doc		Issued in / on.: Vienna, 2007-11-18	
		Products: AI-5306	Sheet: 1

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-2 (1995-01) Electromagnetic compatibility (EMC)
+ A1 (1998-01) Part 4-2: Testing and measurement techniques -
+ A2 (2000-11) Electrostatic discharge immunity test - Basic EMC
publication
(= EN 61000-4-2/1995 + A1/1998 + A2/2001)

2. Summary of Test Result

The module **AI-5306** has **passed** electrostatic discharge immunity testing acc. to the test requirement when subjected to a disturbance voltage of $\pm 6\text{kV}$ (contact discharge) and $\pm 8\text{kV}$ (air discharge). according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: H. STEFL/ 2007-12-03	Re: EMC TYPE TESTING Electromagnetic field immunity test	Report no.: 5603-S03_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S03_00.doc		Issued in / on: Vienna, 04. 12. 2007	
Product: AI-5306		Sheet: 1	Sheets: 7

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description**
document: BC_ACP_FB(e).pdf Rev.3

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

EN 61000-4-3 (2007-02) Electromagnetic compatibility (EMC)
Part 4-3: Testing and measurement techniques -
Radiated, radio-frequency, electromagnetic field
immunity test
(= IEC 61000-4-3/2006-02)

2. Summary of Test Result

The module **AI-5306** has **passed** the radio interference immunity test according to the test requirement when subjected to an interference-field strength of 10V/m and 3V/m. according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: H. STEFL / 2007-11-15	Re: EMC TYPE TESTING Electrical fast transient/burst immunity test	Report no.: 5306-S04_00	
Released by / on: J.Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S04_00.doc		Issued in / on.: Vienna, 2007-11-18	
		Products: AI-5306	Sheet: 1

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-4 (2004-07) Electromagnetic compatibility (EMC)
+ Corrig. 1 (2006-08) Part 4-4: Testing and measurement techniques -
+ Corrig. 2 (2007-06) Electrical fast transient/burst immunity test
(= EN 61000-4-4/2004-12)

2. Summary of Test Result

The modules **AI-5306** has **passed** the electrical fast transient/burst immunity test according to the test requirement when subjected to a disturbance voltage of **± 4kV**.
according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on:H. STEFL / 2007-11-21	Re: EMC TYPE TESTING Surge immunity test 1.2/50µs-pulses Product: AI-5306	Report no.: 5306-S05_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no. S.71606.01.50.09.11	
File: 5306-S05_00.doc		Issued in / on.: Vienna, 2007-11-25	
		Sheet: 1	Sheets: 10

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description**
document: **BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-5 (2005-11) Electromagnetic compatibility (EMC)
Part 4-5: Testing and measurement techniques -
Surge immunity test

2. Summary of Test Result

The module **AI-5306** has **passed** the surge immunity test according to the test requirement when subjected to an interference voltage of **± 2,0kV COMMON** and **NORMAL**.
according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: H. STEFL / 2007-11-15	Re: EMC TYPE TESTING Immunity to conducted disturbances, induced by radio-frequency fields	Report no.: 5306-S06_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S06_00.doc		Issued in / on.: Vienna, 2007-11-18	
		Product: AI-5306	Sheet: 1

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-6 (2003-05) Electromagnetic compatibility (EMC)
+ A1 (2004-10) Part 4-6: Testing and measurement techniques –
+ A2 (2006-03) Immunity to conducted disturbances, induced by radio-
frequency fields

2. Summary of Test Result

The module **AI-5306** has **passed** the test of its immunity to conducted disturbances, induced by radio-frequency fields, according to the test requirement when subjected to a disturbance voltage of **10V**.
according to: AI-5300

Department: PTD EA D TC23	TEST REPORT		
Tested by / on: H. STEFL/ 2007-11-26	Re: EMC TYPE TESTING Power frequency magnetic field immunity test	Report no.: 5306-S08_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S08_00.doc		Issued in / on: Vienna, 2007-11-28	
Product: AI-5306		Sheet: 1	Sheets: 7

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-8 (1993-06) Electromagnetic compatibility (EMC)
+ A1 (2000-11) Part 4-8: Testing and measurement techniques -
Power frequency magnetic field immunity test -
Basic EMC publication
(= EN 61000-4-8/1993 + A1/2001)

2. Summary of Test Result

The module **AI-5306** has **passed** the Power frequency magnetic field immunity test according to the test requirement when subjected to an field strength of 100 A/m permanently and 1000 A/m temporary. according to: AI-5300

Department: PTD EA D TC23	TEST REPORT		
Tested by / on: H. STEFL/ 2007-11-26	Re: EMC TYPE TESTING Pulse magnetic field immunity test	Report no.: 5306-S09_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no. S.71606.01.50.09.11	
File: 5306-S09_00.doc		Issued in / on.: Vienna, 2007-11-28	
Product: AI-5306		Sheet: 1	Sheets: 6

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

IEC 61000-4-9 (1993-06) Electromagnetic compatibility (EMC)
+ A1 (2000-11) Part 4-9: Testing and measurement techniques -
Pulse magnetic field immunity test
(= EN 61000-4-9/1993 + A1/2001)

2. Summary of Test Result

The module **AI-5306** has **passed** the Pulse magnetic field immunity test according to the test requirement when subjected to an field strength of 1000 A/m temporary.
according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: H. STEFL/ 2007-11-26	Re: EMC TYPE TESTING Radio-Interference-Field Strength Product: AI-5306	Report no.: 5306-S22_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S22_00.doc		Issued in / on.: Vienna, 2007-11-28	
		Sheet: 1	Sheets: 8

1. Requirements and Standards Applied

Test requirement acc. to:


BC 1703 ACP **FB BC 1703 ACP Functional Description
document: BC_ACP_FB(e).pdf Rev.3**

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

CISPR 22 (2005-04) mod. Information technology equipment -
+ AMD 1 (2005-07) Radio disturbance characteristics –
+ AMD 2 (2006-01) Limits and methods of measurement
(= EN 55022/2006-09)

2. Summary of Test Result

The module **AI-5306** has **passed** the radio-interference-field strength test class A according to the test requirement.
according to: AI-5300

Department: PTD EA D TC2-3	TEST REPORT		
Tested by / on: Seidl / 2006-11-27, Stefl / 2007-11-28	Re: EMC TYPE TESTING Insulation Tests	Report no.: 5306-S55_00	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: S.71606.01.50.09.11	
File: 5306-S55_00.doc		Issued in / on.: Vienna, 2007-11-30	
Products: AI-5306		Sheet: 1	Sheets: 10

1. Requirements and Standards Applied

Test requirement acc. to:

BC 1703 ACP **FB BC 1703 ACP Functional Description**
document: BC_ACP_FB(e).pdf Rev.3

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

IEC 60255-5 (2000-12) Electrical relays -
Part 5: Insulation coordination for measuring relays and
protection equipment; Requirements and tests
(= EN 60255-5/2001-04)

2. Summary of Test Result

The module **AI-5306 passed** the insulation tests according to the test requirement

- a) dielectric voltage test using a test voltage of 1,6 kV_{eff}
- b) impulse voltage test using a test voltage of 3 kV_s

according to: AI-5300