

AI-5306 Ana. Eing. 16x ±20mA, 1ms-Abtast.

BC5-306--

AI-5306 Ana. Inputs 16x +20mA, 1ms

6MF10130FD060AA1

### 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 Österreich**

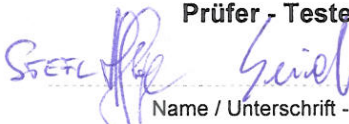
Wien - Vienna, 11-11-2008


Power Distribution  
Energy Automation Development  
E A D TC2

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Prüfer - Tested by:

Geprüft - Reviewed by:

  
Name / Unterschrift - Signature  
Name / Unterschrift - Signature

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

## 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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL / 2007-11-16	<b>Re:</b>  <b>EMC TYPE TESTING</b>  <b>Electrostatic discharge immunity test</b>	Report no.: <b>5306-S02_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S02_00.doc		Issued in / on.: Vienna, <b>2007-11-18</b>	
		<b>Products: AI-5306</b>	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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL/ 2007-12-03	<b>Re:</b>  <b>EMC TYPE TESTING</b>  <b>Electromagnetic field immunity test</b>	Report no.: <b>5603-S03_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S03_00.doc		Issued in / on: Vienna, <b>04. 12. 2007</b>	
<b>Product: AI-5306</b>		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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL / 2007-11-15	Re:  <b>EMC TYPE TESTING</b>  <b>Electrical fast transient/burst immunity test</b>	Report no.: <b>5306-S04_00</b>	
Released by / on: J.Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S04_00.doc		Issued in / on.: Vienna, <b>2007-11-18</b>	
		<b>Products: AI-5306</b>	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	<b>TEST REPORT</b>		
Tested by / on:H. STEFL / 2007-11-21	<b>Re:</b>  <b>EMC TYPE TESTING</b>  <b>Surge immunity test</b> <b>1.2/50µs-pulses</b>	Report no.: <b>5306-S05_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no. <b>S.71606.01.50.09.11</b>	
File: 5306-S05_00.doc		Issued in / on.: Vienna, <b>2007-11-25</b>	
<b>Product: AI-5306</b>		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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL / 2007-11-15	Re:  <b>EMC TYPE TESTING</b>  <b>Immunity to conducted disturbances, induced by radio-frequency fields</b>	Report no.: <b>5306-S06_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S06_00.doc		Issued in / on.: Vienna, <b>2007-11-18</b>	
		<b>Product: AI-5306</b>	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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL/ 2007-11-26	<b>Re: EMC TYPE TESTING</b>  <b>Power frequency magnetic field immunity test</b>	Report no.: <b>5306-S08_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S08_00.doc		Issued in / on: Vienna, <b>2007-11-28</b>	
		<b>Product: AI-5306</b>	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 61000-4-8 (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	<b>TEST REPORT</b>		
Tested by / on: H. STEFL/ 2007-11-26	<b>Re:</b>  <b>EMC TYPE TESTING</b>  <b>Pulse magnetic field immunity test</b>	Report no.: <b>5306-S09_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no. <b>S.71606.01.50.09.11</b>	
File: 5306-S09_00.doc		Issued in / on.: Vienna, <b>2007-11-28</b>	
<b>Product: AI-5306</b>		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	<b>TEST REPORT</b>		
Tested by / on: Seidl / 2006-11-27, Stefl / 2007-11-28	<b>Re:</b>  <b>EMC TYPE TESTING</b>  <b>Insulation Tests</b>	Report no.: <b>5306-S55_00</b>	
Released by / on: J. Lichtnekert / 2008-09-02		Account / Request no.: <b>S.71606.01.50.09.11</b>	
File: 5306-S55_00.doc		Issued in / on.: Vienna, <b>2007-11-30</b>	
<b>Products: AI-5306</b>		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<sub>eff</sub>
- b) impulse voltage test using a test voltage of 3 kV<sub>s</sub>

according to: AI-5300