



CTS

TESTING SERVICE TECHNOLOGY
INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

EMC TEST REPORT

TEST REPORT NUMBER : CNB3150810-00579-E





EN61000-6-3:2007+A1:2011+AC:2012

Electromagnetic compatibility (EMC) —Part 6-3: Generic standards — Emission standard for residential, commercial and light-industrial environments

EN 61000-6-1:2007

Electromagnetic compatibility (EMC) —Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments

Report Reference No CNB3150810-00579-E

Date of issue 21 August 2015

Testing Laboratory Name..... CTS Testing Service Technology Co., Ltd. Address

Testing location/ procedure Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method D

Applicant's name

Address

Test specification:

Standard EN 61000-6-3:2007+A1:2011+AC:2012, EN 61000-6-1:2007 EN 61000-3-2:2014 ,EN 61000-3-3: 2013

Test Report Form No CTSEMC-1.0

TRF Originator CTS Testing Service Technology Co., Ltd.

Master TRF..... Dated 2009-01

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Test item description..... Lifting Column

Trade Mark. | /

Manufacturer.....

Model/Type reference.....

RatingsDC 24V, 50Hz, 80W

ResultPASSED

Compiled by:

Supervised by:

Approved by:

/File administrators

/ Technique principal

/ Manager





EMC -- TEST REPORT

Test Report No. :
CNB3150810-00579-E

21 August 2015
Date of issue

Type / Model..... CTD-A
EUT..... Lifting Column
Applicant
Address

Manufacturer.....

Contact..... /
Factory.....
Address

Telephone

Fax.....

Contact..... /

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1 TEST STANDARDS

The tests were performed according to following standards:

EN 61000-6-3:2007+A1:2011+AC:2012 Electromagnetic compatibility (EMC) —Part 6-3: Generic standards — Emission standard for residential, commercial and light-industrial environments

EN 61000-6-1:2007 Electromagnetic compatibility (EMC) —Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments

EN 61000-3-2:2014 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

EN 61000-3-3: 2013 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection.

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	17 August 2015
Testing commenced on	17-21 August 2015
Testing concluded on	21 August 2015

2.2 FINAL ASSESSMENT

The EMC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- -not fulfilled.

The equipment under test

- - fulfils the EMC requirements cited on page 1.
- D - does not fulfil the EMC requirements cited on page 1.



3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage: AC230V/50Hz
 Others

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

■ - Normal

Operating Mode: Normal _____

Emissions tests.....: According to EN 61000-6-3, searching for the highest disturbance.

Immunity tests.....: According to EN 61000-6-1, searching for the highest susceptibility.

Harmonic current: According to EN 61000-3-2, searching for the highest disturbance.

Voltage fluctuation.....: According to EN 61000-3-3, searching for the highest disturbance.



3.4 EUT configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

Not Applicable

3.5 Performance level

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level defined by its manufacturer or the requestor of the test, or agreed between the manufacturer and the purchaser of the product.

3.6 Definition related to the performance level

- based on the used product standard
- based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

Definition: normal performance within limits specified by the manufacturer, requestor or purchaser:

Criterion B:

Definition: temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention:

Criterion C:

Definition: temporary loss of function or degradation of performance, the correction of which requires operator intervention:

Criterion D:

Definition: loss of function or degradation of performance, which is not recoverable, owing to damage to hardware or software, or loss of data:



4 TEST ENVIRONMENT 4.1

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CTS Testing Service Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CTS Testing Service Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on May 22, 2014.

FCC-Registration No.: 971995

CTS Testing Service Technology Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 13, 2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 °C
Humidity:	25-75 %
Atmospheric pressure:	86-106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report. □
- The empty square indicates that the listed condition, standard or equipment is not applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Description

4.7.1 Description of Standards and Results

EMISSION (EN 61000-6-3:2007+A1:2011+AC:2012)			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN61000-6-3:2007+A1:2011+AC:2012		PASS
Conducted disturbance at telecommunication port	EN61000-6-3:2007+A1:2011+AC:2012		N/A
Radiated disturbance	EN 61000-6-3:2007+A1:2011 +AC:2012		PASS
Harmonic current emissions	EN 61000-3-2:2014	Class A	PASS
Voltage fluctuations & flicker	EN 61000-3-3:2013		PASS
IMMUNITY (EN 61000-6-1:2007)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2: 2008	B	PASS
Radio-frequency, Continuous radiated disturbance	IEC 61000-4-3:2006 +A1:2007+A2:2010	A	PASS
Electrical fast transient (EFT)	IEC 61000-4-4:2012	B	PASS
Surge (Input a.c. power ports)	IEC 61000-4-5: 2005	B	PASS
Surge (Telecommunication ports)		B	N/A
Radio-frequency, Continuous conducted disturbance	IEC 61000-4-6: 2008	A	PASS
Power frequency magnetic field	IEC 61000-4-8: 2009	A	PASS
Voltage dips, >95% reduction	IEC 61000-4-11: 2004	B	PASS
Voltage dips, 30% reduction		B	PASS
Voltage interruptions		C	PASS
N/A is an abbreviation for Not Applicable.			

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5 TEST CONDITIONS AND RESULTS 5.1

Conducted disturbance

For test instruments and accessories used see section 6 part 6.2.

5.1.1 Description of the test location

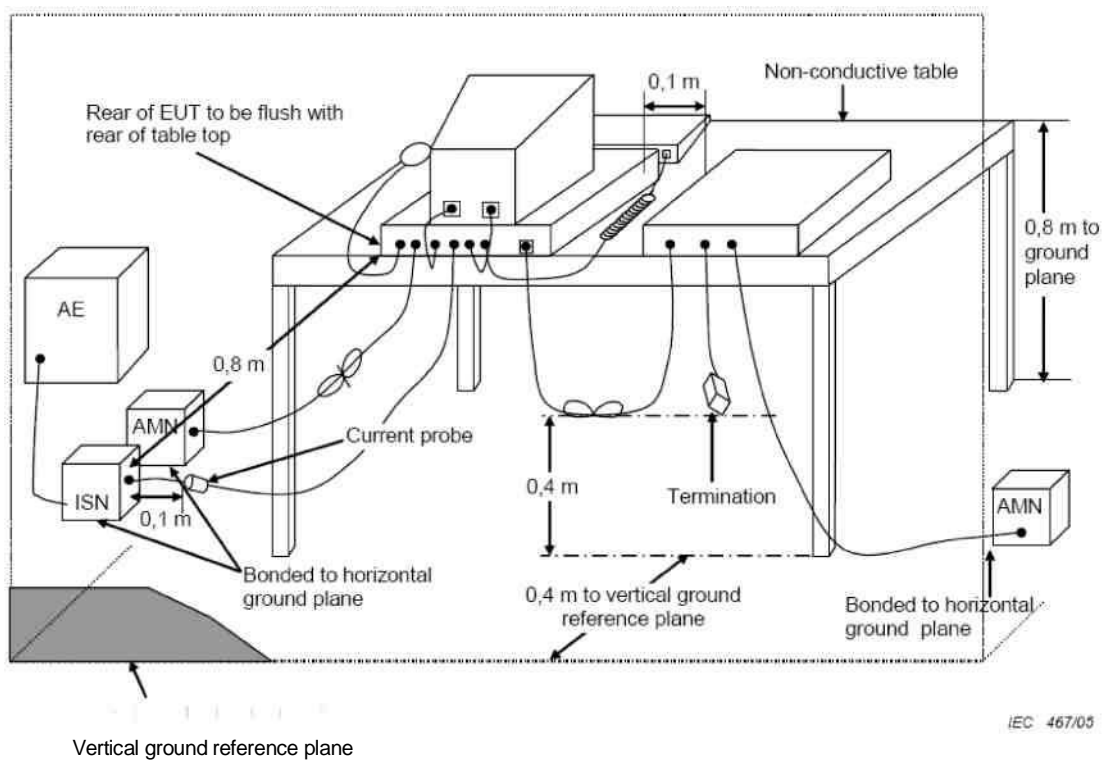
Test location: Shielded room

5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



5.1.3 Limits disturbance

Frequency	Maximum RF Line Voltage (dBuV)	
	Quasi-peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 *	56 ~ 46 *
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.



5.1.4 Test result

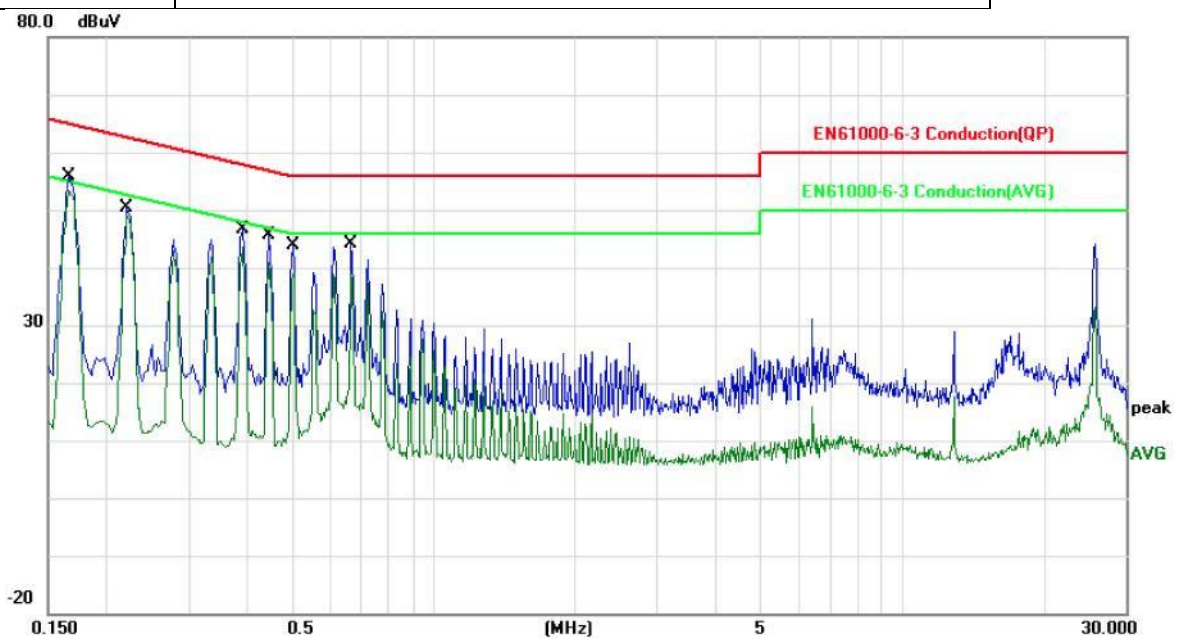
The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.15 MHz-30 MHz
Min. limit margin	>2.40dBat0.15-30MHz

Remarks: **The limits are kept. For detailed results, please see the following page(s).**

5.1.5 Test protocol

Test point L Operation mode Normal Remarks:	Result:	■ - passed □ - not passed
---	---------	---------------------------

EUT	Lifting Column
MODEL NO.	CTD-A
Operating Condition	AC 230V/50HZ
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Eric



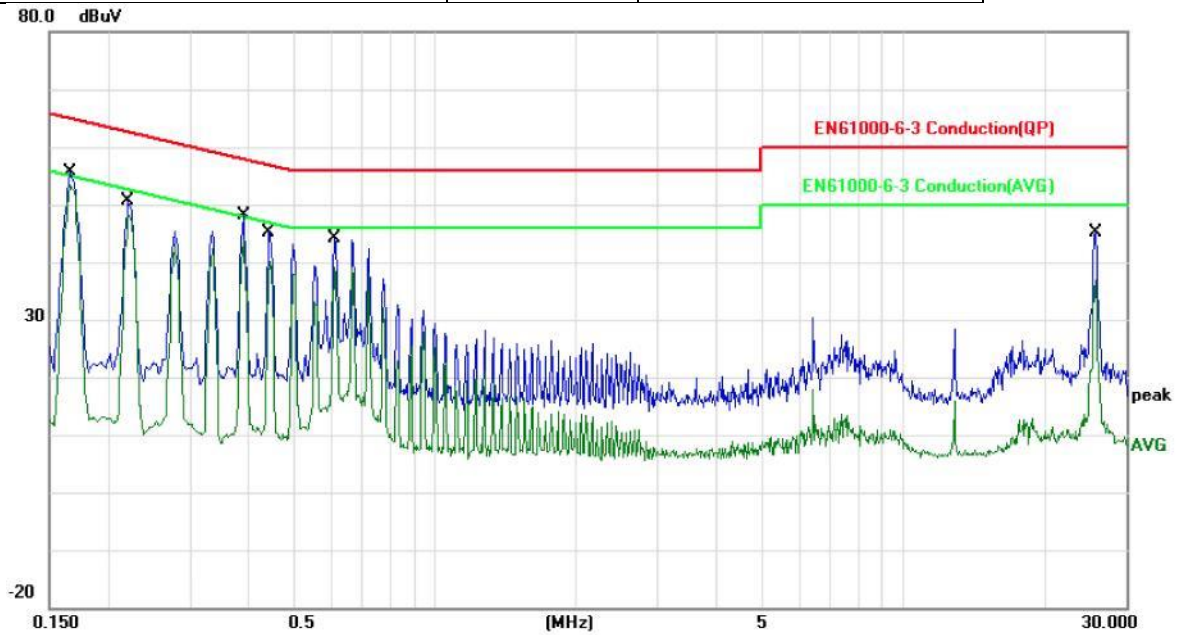
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	10.82	43.55	54.37	65.16	-10.79	QP
2	0.1660	10.82	41.94	52.76	55.16	-2.40	AVG
3	0.2220	10.84	38.g5	4g.7g	62.74	-12.95	QP
4	0.2220	10.84	37.g4	48.78	52.74	-3.96	AVG
5	0.3g00	10.88	35.57	46.45	58.06	-11.61	QP
6	0.3g00	10.88	32.80	43.68	48.06	-4.38	AVG
7	0.4460	10.90	32.42	43.32	56.g5	-13.63	QP
8	0.4460	10.90	2g.50	40.40	46.g5	-6.55	AVG
9	0.5020	10.91	30.8g	41.80	56.00	-14.20	QP
10	0.5020	10.91	27.48	38.3g	46.00	-7.61	AVG
11	0.6660	10.91	31.13	42.04	56.00	-13.96	QP
12	0.6660	10.91	27.g5	38.86	46.00	-7.14	AVG

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Test point: N Operation mode Normal Remarks:	Result: <input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
---	---



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	10.80	43.69	54.49	65.16	-10.67	QP
2	0.1660	10.80	41.67	52.47	55.16	-2.69	AVG
3	0.2220	10.82	38.88	49.70	62.74	-13.04	QP
4	0.2220	10.82	37.79	48.61	52.74	-4.13	AVG
5	0.3900	10.87	35.47	46.34	58.06	-11.72	QP
6	0.3900	10.87	32.81	43.68	48.06	-4.38	AVG
7	0.4420	10.88	30.86	41.74	57.02	-15.28	QP
8	0.4420	10.88	27.50	38.38	47.02	-8.64	AVG
9	0.6100	10.90	31.26	42.16	56.00	-13.84	QP
10	0.6100	10.90	27.82	38.72	46.00	-7.28	AVG
11	25.7420	11.10	29.87	40.97	60.00	-19.03	QP
12	25.7420	11.10	22.23	33.33	50.00	-16.67	AVG

Note: $l_level = Reading + Factor$. $Margin = Limit - Level$

5.2 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part 6.1.

5.2.1 Description of the test location

Test location Semi-Anechoic chamber

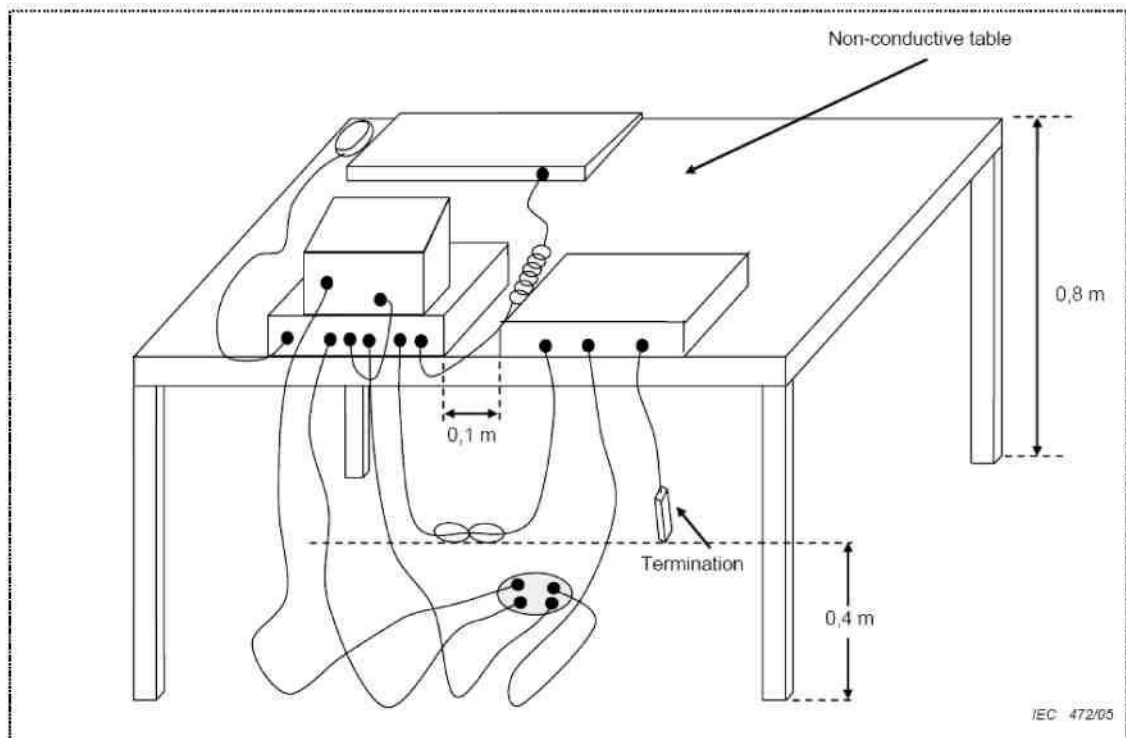
Test disturbance: 3 Meter

5.2.2 Description of the test set-up

5.2.2.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.2.2.2 Block Diagram of Test Setup



5.2.3 Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBpV/m)
30 ~ 230	3	40
230-1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.



5.2.4 Test result

The requirements are	Fulfilled
Band width	120kHz
Frequency range	30 MHz-1000 MHz
Min. limit margin	>4.01 dB at 30-1000 MHz

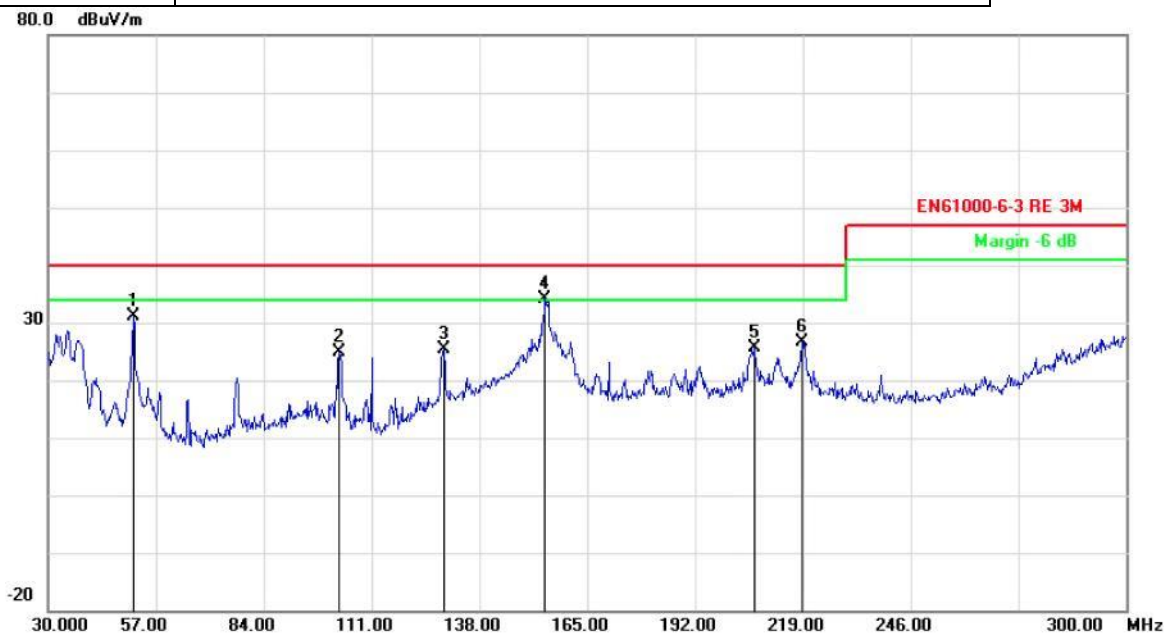
Remarks: **The limits are kept. For detailed results, please see the following page(s).**



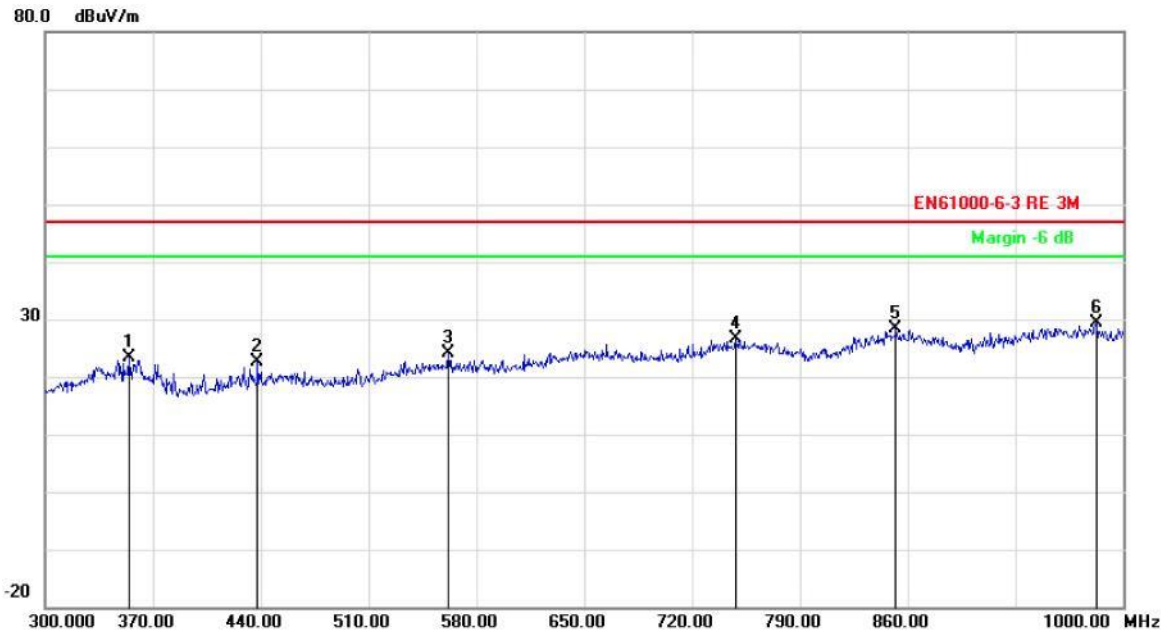
5.2.5 Test protocol

Test point: Horizontal Operation mode Normal Remarks:	Result:	■ - passed □ - not passed
---	---------	---------------------------

EUT	Lifting Column
MODEL NO.	CTD-A
Operating Condition	AC 230V/50HZ
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Eric



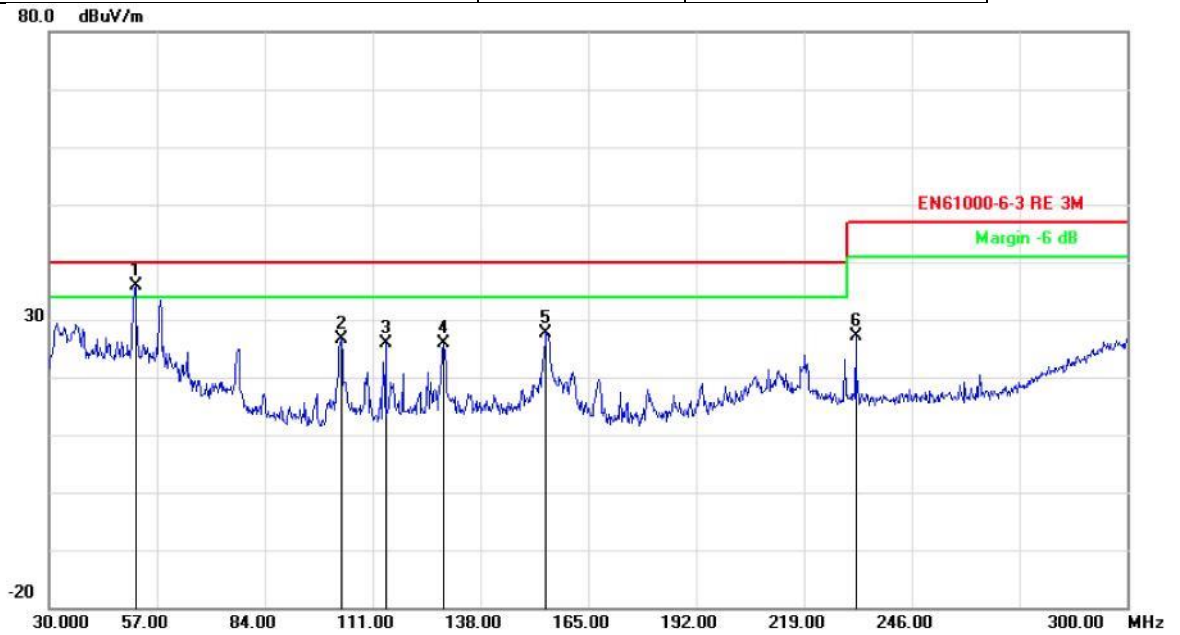
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	51.3299	-18.76	49.77	31.01	40.00	-8.99	QP
2	102.9000	-17.95	42.84	24.89	40.00	-15.11	QP
3	129.0900	-16.19	41.56	25.37	40.00	-14.63	QP
4	154.4699	-15.96	50.04	34.08	40.00	-5.92	QP
5	206.8499	-10.85	36.43	25.58	40.00	-14.42	QP
6	218.7299	-10.83	37.42	26.59	40.00	-13.41	QP



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	354.6000	-11.27	34.74	23.47	47.00	-23.53	QP
2	437.9000	-8.96	31.52	22.56	47.00	-24.44	QP
3	561.8000	-5.65	29.84	24.19	47.00	-22.81	QP
4	748.0000	-1.68	28.39	26.71	47.00	-20.29	QP
5	852.3000	-0.36	28.78	28.42	47.00	-18.58	QP
6	982.5000	0.11	29.24	29.35	47.00	-17.65	QP



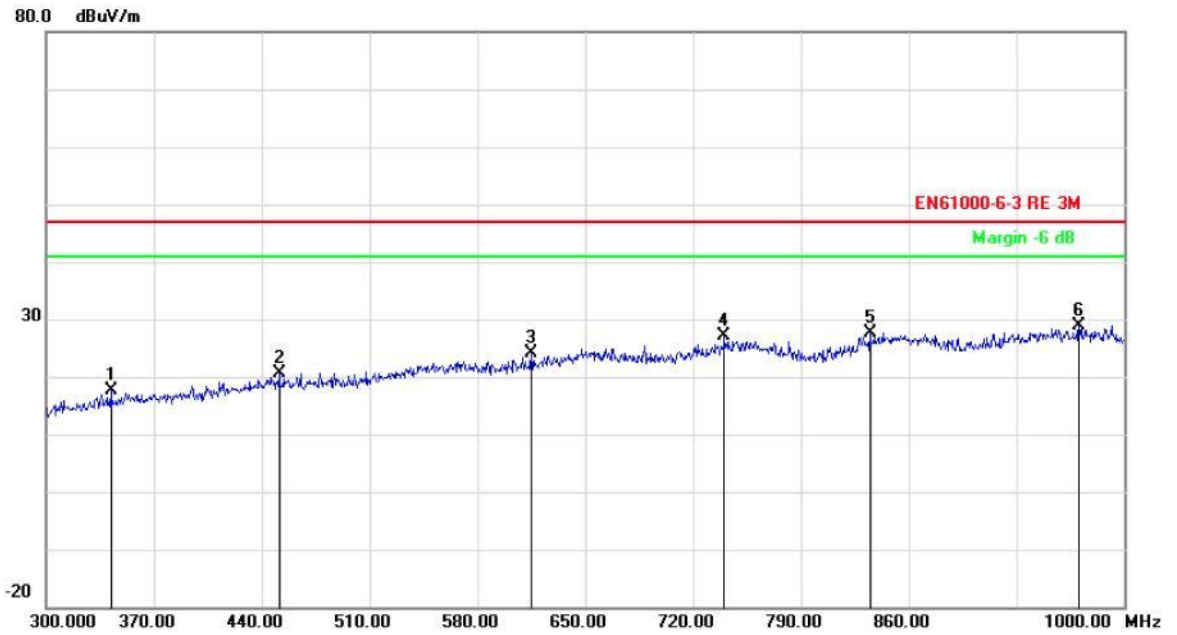
Test point: Vertical Operation mode Normal Remarks:	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
---	---------	--



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	51.6000	-18.79	54.78	35.99	40.00	-4.01	QP
2	103.1700	-17.93	44.59	26.66	40.00	-13.34	QP
3	114.2400	-17.05	42.83	25.78	40.00	-14.22	QP
4	128.8200	-16.21	42.12	25.91	40.00	-14.09	QP
5	154.4700	-15.96	43.55	27.59	40.00	-12.41	QP
6	231.9600	-11.63	38.68	27.05	47.00	-19.95	QP

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	342.0000	-11.71	29.35	17.64	47.00	-29.36	QP
2	451.2000	-8.45	29.06	20.61	47.00	-26.39	QP
3	615.0000	-4.85	28.98	24.13	47.00	-22.87	QP
4	740.3000	-2.01	29.24	27.23	47.00	-19.77	QP
5	834.8000	-1.20	28.83	27.63	47.00	-19.37	QP
6	970.6000	0.23	28.54	28.77	47.00	-18.23	QP

Note: Level=Reading+Factor. Margin= Limit-Level

5.3 Harmonic current

For test instruments and accessories used see section 6 part 6.3.

5.3.1 Description of the test location

Test location : Test location no. 1

5.3.2 Limits of harmonic current

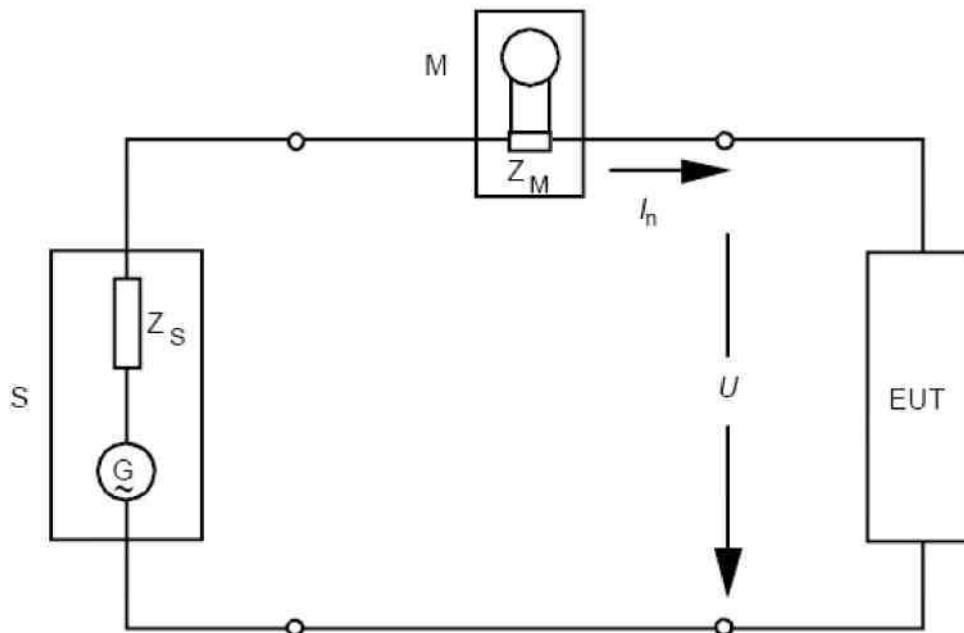
Test configuration and procedure see clause 7.1 of standard EN 61000-3-2:2014.

5.3.3 Description of the test set-up

5.3.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.3.3.2 Block Diagram of Test Setup



5.3.4 Test result

The requirements are Fulfilled

Remarks: The limits are kept. For detailed results, please see the following page(s).



5.3.5 Test protocol

Operation mode Normal Remarks:	Result:	<input checked="" type="checkbox"/> - passed <input type="checkbox"/> - not passed
Standard used:	EN 61000-3-2 Quasi-Stationary - Equipment class A	
Observation time:	5 min	
Windows width:	10 periods - (EN/IEC 61000-4-7 Edition 2002)	
Mains supply voltage:	AC 230V/50HZ	
Ambient Temperature:	24 °C	
Humidity:	56%	
Barometric Pressure:	86~106KPa	
E. U. T.:	Lifting Column	
M/N:	CTD-A	
Date of test:	18 August 2015	
Tester:	Eric	

Test result

E. U.T.: | PASS

Power Source: | PASS

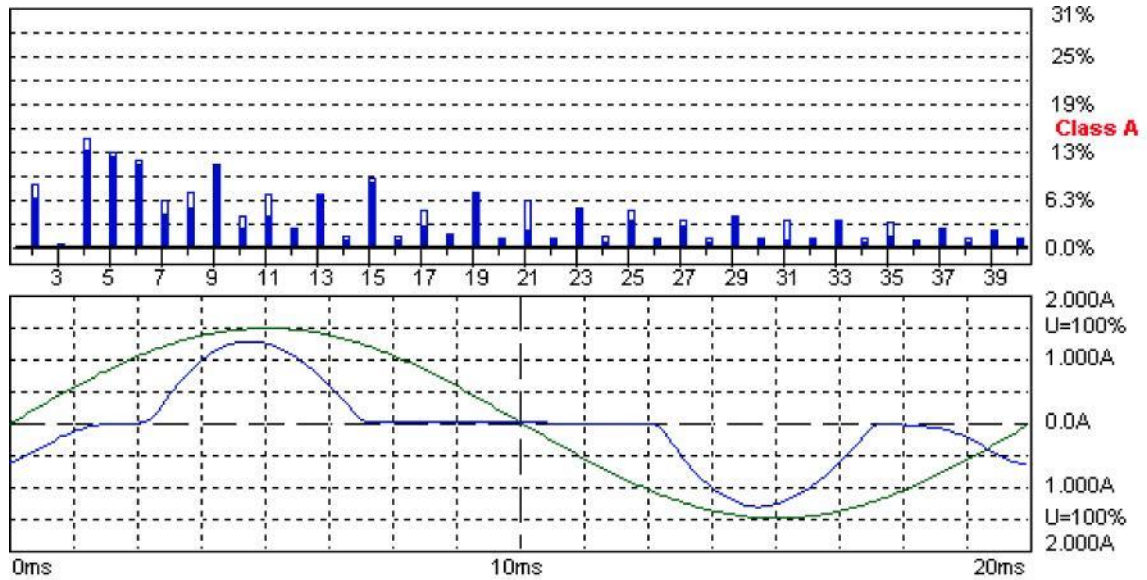
Check harmonics 2..40 [exception odd 21..39]:

Harmonic(s) > 150%:
Order (n): | None

Harmonic(s) with average > 100%:
Order (n): | None

Check odd harmonics 21..39:

All Partial Odd Harmonics below partial limits.
Harmonic(s) > 150%: Order (n): None
Harmonic(s) with average > 150%: Order (n): None



Harmonic Emission - IEC 61000-3-2, EN 61000-3-2, (EN60555-2)

2015-8-18 14:50:38

Urms = 229.7 V P = 113.4 W THD(I) = 78.8 % Range: 2 A
 Irms = 0.632 A pf = 0.782 H1 (I) = 0.491 A V-nom: 230 V
 TestTime: 10 min (100%)
 Eric **Test completed, Result: PASSED**

HAR-1000 EMC-Parber

Order	Freq. [Hz]	Irms [A]	Imax [A]	Limit [A]	Status	Remark
	50	0.4911	0.4911			
	100	0.0665	0.0861	1.0800		
	150	0.3468	0.3467	2.3000		
	200	0.0533	0.0599	0.4300		
	250	0.1345	0.1393	1.1400		
	300	0.0311	0.0333	0.3000		
	350	0.0302	0.0448	0.7700		
	400	0.0111	0.0157	0.2300		
	450	0.0419	0.0419	0.4000		
	500	0.0042	0.0071	0.1840		
	550	0.0127	0.0223	0.3300		
10	600	0.0033	0.0033	0.1533		
11	650	0.0139	0.0139	0.2100		
12	700	0.0009	0.0015	0.1314		
13	750	0.0123	0.0131	0.1500		
14	800	0.0007	0.0012	0.1150		
15	850	0.0033	0.0061	0.1324		
16	900	0.0010	0.0015	0.1022		
17	950	0.0083	0.0083	0.1184		
18	1000	0.0009	0.0009	0.0920		
19						
20						

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<u>21</u>	<u>1050</u>	<u>0.0021</u>	<u>0.0063</u>	<u>0.1071</u>
<u>22</u>	<u>1100</u>	<u>0.0007</u>	<u>0.0007</u>	<u>0.0836</u>
<u>23</u>	<u>1150</u>	<u>0.0048</u>	<u>0.0048</u>	<u>0.0978</u>
<u>24</u>	<u>1200</u>	<u>0.0002</u>	<u>0.0007</u>	<u>0.0767</u>
<u>25</u>	<u>1250</u>	<u>0.0031</u>	<u>0.0042</u>	<u>0.0900</u>
<u>26</u>	<u>1300</u>	<u>0.0006</u>	<u>0.0006</u>	<u>0.0708</u>
<u>27</u>	<u>1350</u>	<u>0.0021</u>	<u>0.0028</u>	<u>0.0833</u>
<u>28</u>	<u>1400</u>	<u>0.0002</u>	<u>0.0006</u>	<u>0.0657</u>
<u>29</u>	<u>1450</u>	<u>0.0029</u>	<u>0.0029</u>	<u>0.0776</u>
<u>30</u>	<u>1500</u>	<u>0.0005</u>	<u>0.0005</u>	<u>0.0613</u>
<u>31</u>	<u>1550</u>	<u>0.0005</u>	<u>0.0024</u>	<u>0.0726</u>
<u>32</u>	<u>1600</u>	<u>0.0004</u>	<u>0.0005</u>	<u>0.0575</u>
<u>33</u>	<u>1650</u>	<u>0.0023</u>	<u>0.0023</u>	<u>0.0682</u>
<u>34</u>	<u>1700</u>	<u>0.0002</u>	<u>0.0005</u>	<u>0.0541</u>
<u>35</u>	<u>1750</u>	<u>0.0007</u>	<u>0.0018</u>	<u>0.0643</u>
<u>36</u>	<u>1800</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0511</u>
<u>37</u>	<u>1850</u>	<u>0.0013</u>	<u>0.0015</u>	<u>0.0608</u>
<u>38</u>	<u>1900</u>	<u>0.0002</u>	<u>0.0004</u>	<u>0.0484</u>
<u>39</u>	<u>1950</u>	<u>0.0011</u>	<u>0.0011</u>	<u>0.0577</u>
<u>40</u>	<u>2000</u>	<u>0.0004</u>	<u>0.0004</u>	<u>0.0460</u>

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5.4 Voltage fluctuations and flicker

For test instruments and accessories used see section 6 part 6.4.

5.4.1 Description of the test location

Test location : Test location no. 1

5.4.2 Limits of voltage fluctuation and flicker

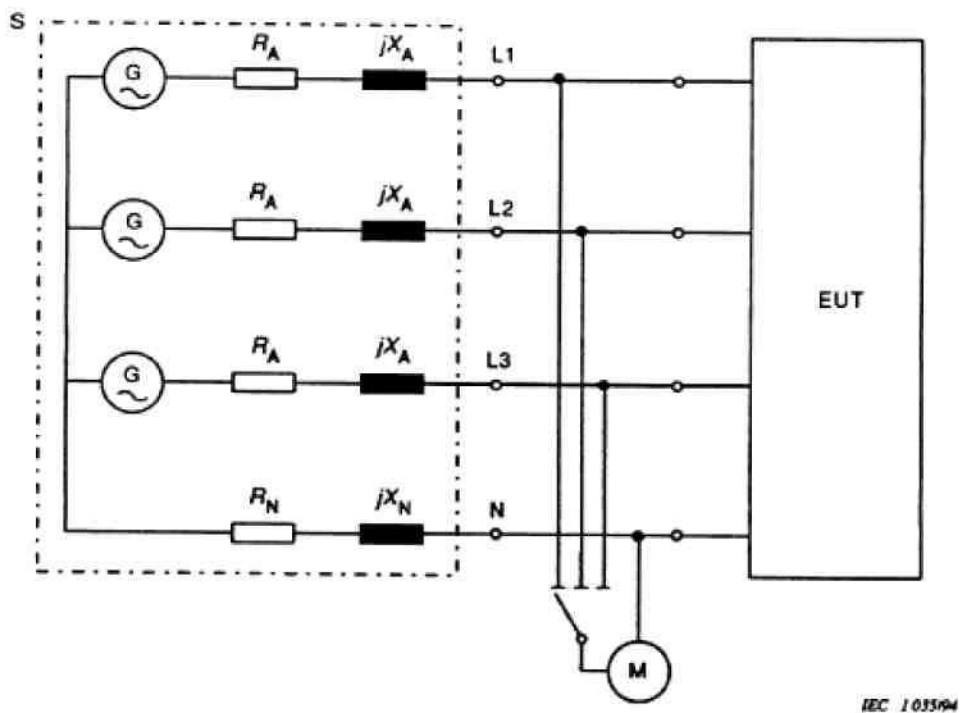
Test configuration and procedure see clause 5 of standard EN 61000-3-3: 2013.

5.4.3 Description of the test set-up

5.4.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.4.3.2 Block Diagram of Test Setup





5.4.4 Test result

The requirements are Fulfilled

Remarks: The limits are kept. For detailed results, please see the following page(s).

5.4.5 Test protocol

Operation mode Normal Remarks:	Result:	■ - passed □ - not passed
-----------------------------------	---------	------------------------------

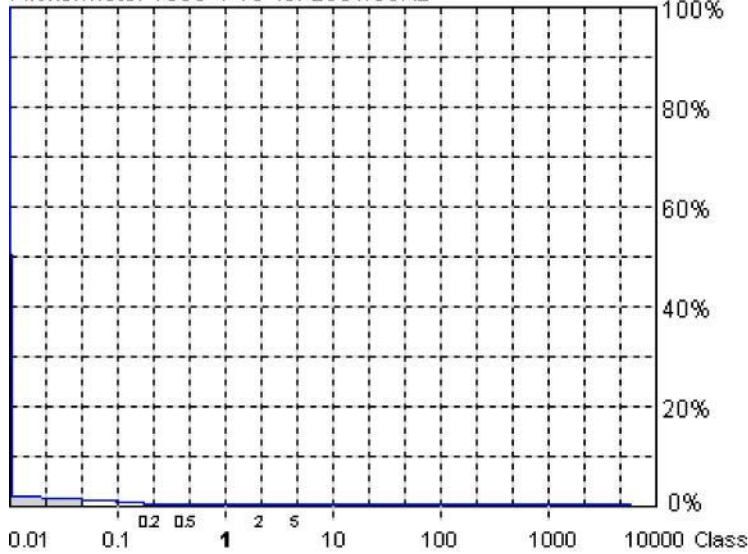
Standard used:	EN 61000-3-3 Flicker
Short time (Pst):	1 min
Observation time:	10 min (1 Flicker measurement)
Flickermeter:	AC 230V/50HZ
Ambient Temperature:	24 °C
Humidity:	56%
Barometric Pressure:	86~106KPa
E. U.T.:	Lifting Column
M/N:	CTD-A
Date of test:	18 August 2015
Tester:	Eric

Maximum Flicker results

	EUT values	Limit	Result
Pst	0.07	1.00	PASS
dc [%]	0.00	3.30	PASS
dmax [%]	0.00	4.00	PASS
dt[s]	0.00	0.50	PASS



Flickermeter 1000-4-15 for 230V/50Hz



Actual Flicker (Fli):	0.00
Short-term Flicker (Pst):	0.11
Limit (Pst):	1.00
Long-term Flicker (Plt):	0.11
Limit (Plt):	0.65
Maximum Relative Volt. Change (dmax):	0.25%
Limit (dmax):	4.00%
Relative Steady-state Voltage Change (dc):	0.19%
Limit (dc):	3.30%
Maximum Interval exceeding 3.30% (dt):	0.00ms
Limit (dt>Lim):	200ms

Flicker Emission - IEC 61000-3-3 , EN 61000-3-3 , (EN60555-3)

Urms = 229.5 V P = 94.14 W
 Irms = 0.544 A pf = 0.754

Eric

Test completed, Result: PASSED

2015-8-18 14:38:26

Range: 2 A
 V-nom: 230 V
 TestTime: 10 min (100%)

HAR-1000 EMC-Parber

5.5 Electrostatic discharge

For test instruments and accessories used see section 6 part 6.5.

5.5.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.5.2 Severity of levels electrostatic discharge

5.5.2.1 Severity level: Contact discharge at +4KV air discharge at +8KV

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

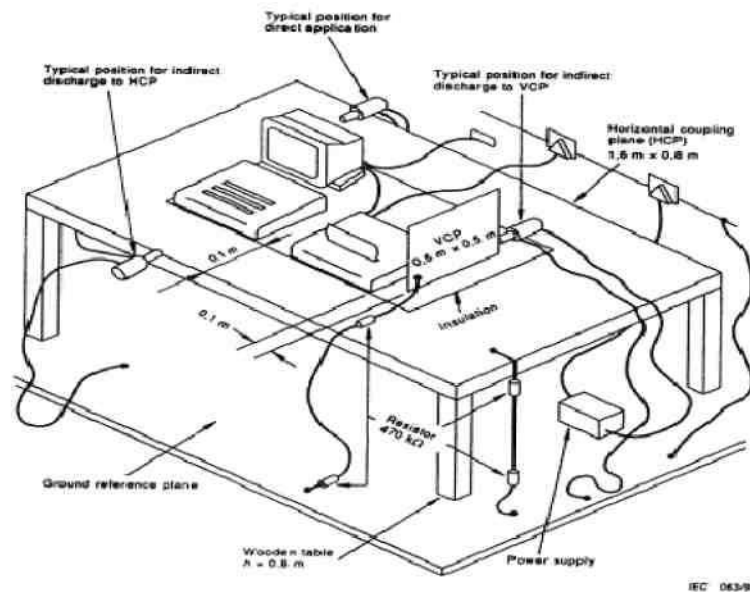
5.5.2.2 Performance criterion: B

5.5.3 Description of the test set-up

5.5.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.5.3.2 Block Diagram of Test Setup



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5.5.4 Test specification:

Contact discharge voltage: <input type="checkbox"/> 2 kV <input type="checkbox"/> 4 kV	
Air discharge voltage: <input type="checkbox"/> 2 kV <input type="checkbox"/> 4 kV <input type="checkbox"/> 8 kV	
Discharge impedance: <input type="checkbox"/> 330 Q /150 pF	
Discharge factor: _____ <input type="checkbox"/> > 1 sec.	
Number of discharges: <input type="checkbox"/> > 10	
Type of discharge: _____ Direct discharge	<input type="checkbox"/> Air discharge
	<input type="checkbox"/> Contact discharge
_____ Indirect discharge	<input type="checkbox"/> Contact discharge
Polarity: _____ <input type="checkbox"/> Positive _____	<input type="checkbox"/> Negative
Discharge location: _____ Bsee photo documentation of the test set-up _____	
_____ Ball external locations accessible by hand _____	
_____ <input type="checkbox"/> horizontal plate (HCP) _____	
_____ <input type="checkbox"/> vertical coupling plate (VCP)	

5.5.5 Test result

The requirements are Fulfilled

Performance Criterion: B

Remarks: During the test no deviation was detected to the selected operation mode(s).

5.6 Radiated, radio-frequency, electromagnetic field

For test instruments and accessories used see section 6 part 6.6.

5.6.1 Description of the test location

Test location :	GTEM chamber
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.6.2 Severity levels of radiated, Radio-frequency, electromagnetic field

5.6.2.1 Severity level: 3V/m and 1 V/m

Level	Field strenght(V/m)
1	1
2	3
3	10
X	Special

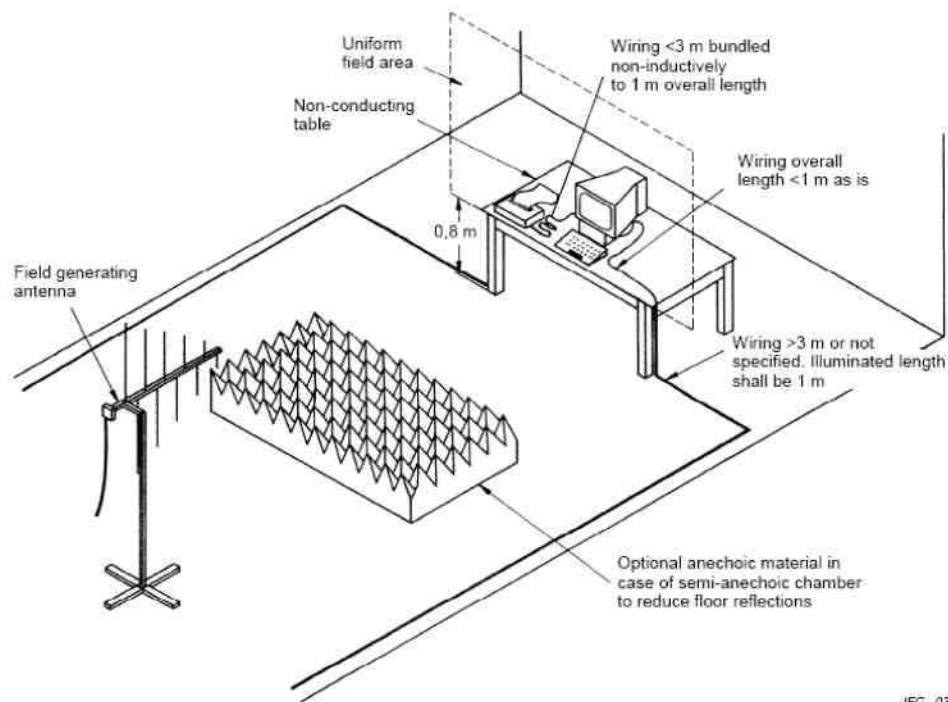
5.6.2.2 Performance criterion: A

5.6.3 Description of the test set-up

5.6.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.6.3.2 Block Diagram of Test Setup



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5.6.4 Test specification:

Frequency range:	■ 80 MHz to 1000 MHz
Field strength:	■ 3V/m
EUT - antenna separation:	■ 3m
Modulation:	<ul style="list-style-type: none"> ■ AM: 80% ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	<ul style="list-style-type: none"> ■ horizontal ■ vertical

Frequency range:	■ 1400 MHz to 2000 MHz
Field strength:	■ 3V/m
EUT - antenna separation:	■ 3m
Modulation:	<ul style="list-style-type: none"> ■ AM: 80% ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	<ul style="list-style-type: none"> ■ horizontal ■ vertical

Frequency range:	■ 2000 MHz to 2700 MHz
Field strength:	■ 1 V/m
EUT - antenna separation:	■ 3m
Modulation:	<ul style="list-style-type: none"> ■ AM: 80% ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	<ul style="list-style-type: none"> ■ horizontal ■ vertical

5.6.5 Test result

The requirements are Fulfilled

Performance Criterion: A

Remarks: During the test no deviation was detected to the selected operation mode(s).

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5.7 Electrical fast transients / Burst

For test instruments and accessories used see section 6 part 6.7.

5.7.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.7.2 Severity levels of electrical fast transients / Burst

5.7.2.1 Severity level: ± 1000V for AC power supply lines

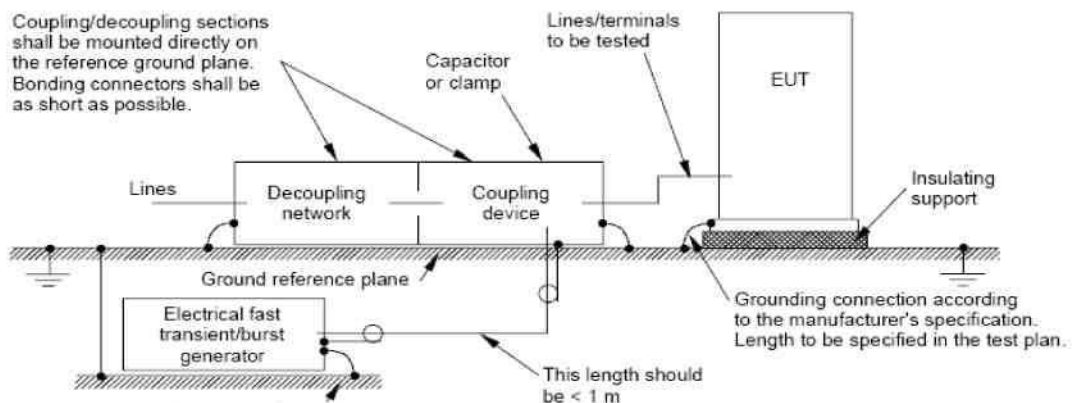
Open circuit output test voltage and repetition rate of the impulses				
Level	On power port, PE		On I/O signal, data and control ports	
	V peak (KV)	Repetition rate (KHz)	Voltage peak	Repetition rate (KHz)
1	0.5	5 or 100	0.25	5 or 100
2	1	5 or 100	0.5	5 or 100
3	2	5 or 100	1	5 or 100
4	4	5 or 100	2	5 or 100
X	Special	Special	Special	Special

5.7.2.2 Performance criterion: B

5.7.3 Description of the test set-up

5.7.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded



5.7.3.2 Block Diagram of Test Setup

Ground reference plane? Copyright of this report is owned by Centre of Testing Service and may not be reproduced



5.7.4 Test specification:

Coupling network:	<input checked="" type="checkbox"/> 0.5 kV	<input checked="" type="checkbox"/> 1 kV	<input type="checkbox"/> 2 kV
Coupling clamp:	<input type="checkbox"/> 0.5 kV	<input type="checkbox"/> 1 kV	
Burst frequency:	<input checked="" type="checkbox"/> 5.0 kHz		
Coupling duration:	<input checked="" type="checkbox"/> -60 s		
Polarity:	<input checked="" type="checkbox"/> positive		<input type="checkbox"/>

5.7.5 Coupling points

Cable description:	AC power line:	L, N, L+N
Screening:	<input type="checkbox"/> screened	<input checked="" type="checkbox"/> unscreened
Status:	<input checked="" type="checkbox"/> D passive	<input checked="" type="checkbox"/> active
Signal transmission:	<input checked="" type="checkbox"/> analogue	<input checked="" type="checkbox"/> D digital
Length:	<input checked="" type="checkbox"/> 1.5m	

5.7.6 Test result

The requirements are Fulfilled

Performance Criterion: B

Remarks: **During the test no deviation was detected to the selected operation mode(s).**

5.8 Surge

For test instruments and accessories used see section 6 part 6.8.

5.8.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24 °C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.8.2 Severity levels of surge

5.8.2.1 Severity level: Line to line: +1KV Line to earth: ±2KV

Level	Test Voltage (KV)
1	0.5
2	1.0
3	2.0
4	4.0
X	Special

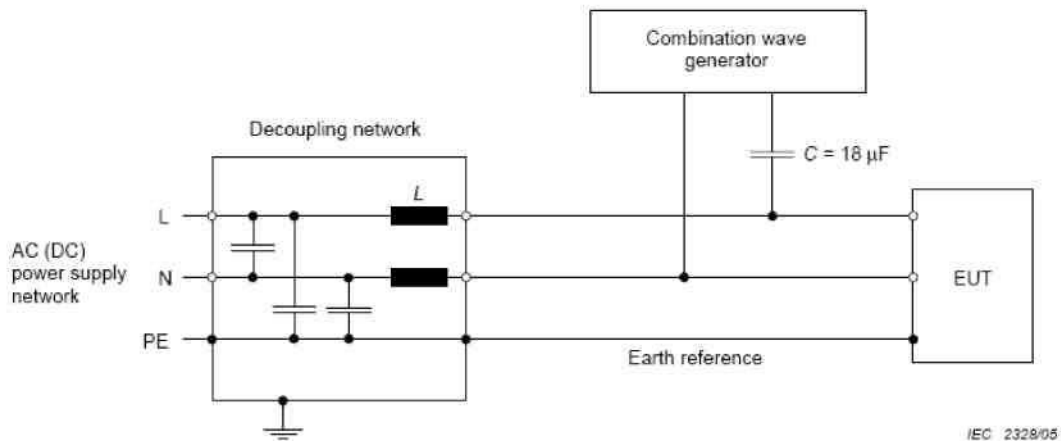
5.8.2.2 Performance Criterion: B

5.8.3 Description of the test set-up

5.8.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.8.3.2 Block Diagram of Test Setup





5.8.4 Test specification:

Pulse amplitude-Power line sym.: Source impedance: 2 Q + 18uF	<input checked="" type="checkbox"/> 0.5 kV <input checked="" type="checkbox"/> 1 kV <input type="checkbox"/> 2 kV <input type="checkbox"/> 4 kV
Pulse amplitude-Power line unsym.: Source impedance: 12 Q + 9uF	<input type="checkbox"/> 0.5 kV <input type="checkbox"/> 1 kV <input type="checkbox"/> 2 kV <input type="checkbox"/> 4 kV
Number of surges:	<input checked="" type="checkbox"/> 5 Surges/Phase angle
Phase angle:	<input checked="" type="checkbox"/> 0° <input checked="" type="checkbox"/> 90° <input checked="" type="checkbox"/> 180°
Repetition rate:	<input checked="" type="checkbox"/> 60s
Polarity:	<input checked="" type="checkbox"/> positive <input checked="" type="checkbox"/> negative

5.8.5 Coupling points

Cable description:	AC power line: L+N
Screening:	<input type="checkbox"/> screened <input checked="" type="checkbox"/> unscreened
Status:	<input type="checkbox"/> passive <input checked="" type="checkbox"/> active
Signal transmission:	<input checked="" type="checkbox"/> analogue D digital
Length:	<input checked="" type="checkbox"/> 1.5 m

5.8.6 Test result

The requirements are Fulfilled

Performance Criterion: B

Remarks: During the test no deviation was detected to the selected operation mode(s).

5.9 Conducted disturbances induced by radio-frequency fields

For test instruments and accessories used see section 6 part 6.9

5.9.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.9.2 Severity levels of conducted disturbances induced by radio-frequency fields discharge

5.9.2.1 Severity Level: 3V

Level	Field Strength (V)
1	1
2	3
3	10
X	Special

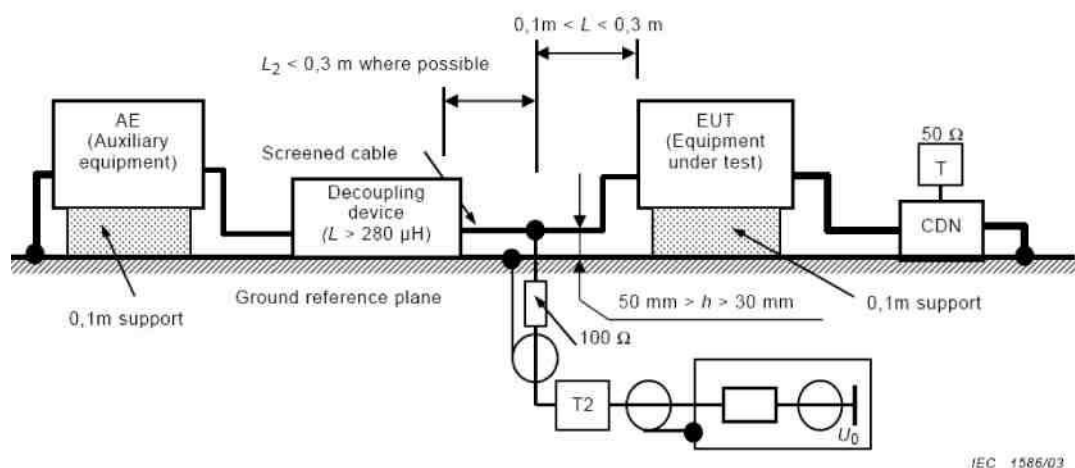
5.9.2.2 Performance Criterion: A

5.9.3 Description of the test set-up

5.9.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.9.3.2 Block Diagram of Test Setup





5.9.4 Test specification:

Frequency range:	■ 0.15 MHz to 80 MHz
Test voltage:	■ 3V
Modulation:	<ul style="list-style-type: none"> ■ AM: 80% ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time

5.9.5 Coupling points

Cable description (Portl):	AC power line: L+N
Screening:	<input type="checkbox"/> screened ■ unshielded
Status:	<input type="checkbox"/> passive ■ active
Signal transmission:	■ analogue <input type="checkbox"/> digital
Length:	■ 0.3 m

5.9.6 Test result

The requirements are Fulfilled

Performance Criterion: A

Remarks: During the test no deviation was detected to the selected operation mode(s).

5.10 Power frequency magnetic field

For test instruments and accessories used see section 6 part 6.10.

5.10.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.10.2 Severity levels of magnetic field immunity

5.10.2.1 Severity Level: 3A/m

Level	Magnetic Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
X	Special

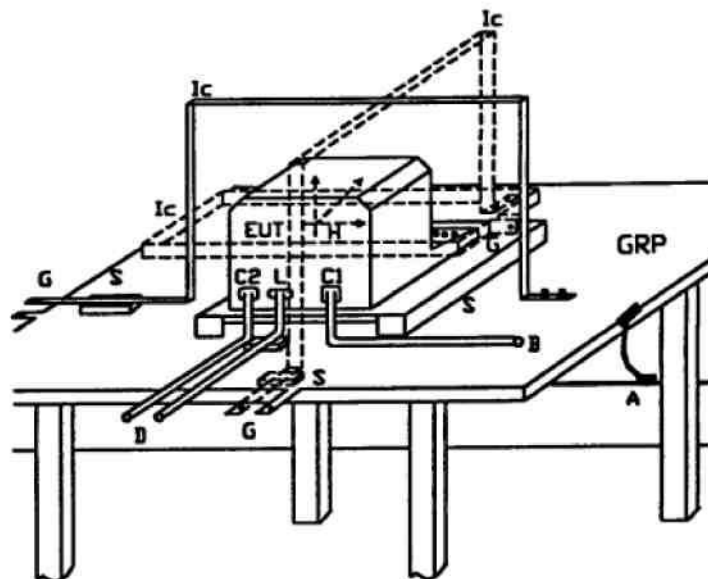
5.10.2.2 Performance Criterion: A

5.10.3 Description of the test set-up

5.10.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.10.3.2 Block Diagram of Test Setup





5.10.4 Test specification:

Test frequency:	■ 50 Hz
Continuous field:	■ 3A/m
Duration (Continuous field):	■ 60 s each Axis
Short duration (1-3s):	■ 3s
Axis:	■ x-axis ■ y-axis ■ z-axis

5.10.5 Test result

The requirements are Fulfilled

Performance Criterion: A

Remarks: **During the test no deviation was detected to the selected operation mode(s).**

5.11 Voltage dips

For test instruments and accessories used see section 6 part 6.11.

5.11.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.11.2 Severity levels of voltage dips

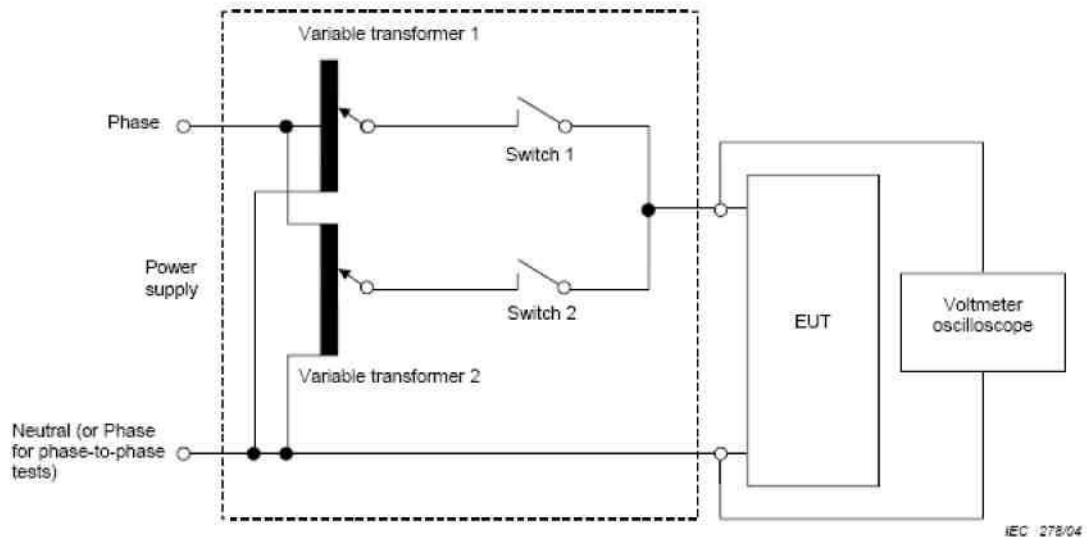
Test Level (%Ut)	Voltage Dips (%Ut)	Performance Criterion	Duration (in period)
0	100	B	0.5
0	100	B	1
70	30	B	25

5.11.3 Description of the test set-up

5.11.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.11.3.2 Block Diagram of Test Setup





5.11.4 Test specification:

Nominal Mains Voltage (V_N):	■ AC 230V
Number of voltage fluctuations:	■ 3
Level of reduction(dip) / duration:	■ 100% /10ms and 20ms
Level of reduction(dip) / duration:	■ 30%/500ms

5.11.5 Test result

The requirements are Fulfilled

Performance Criterion: B

Remarks: **During the test no deviation was detected to the selected operation mode(s).**

5.12 Voltage Short interruptions

For test instruments and accessories used see section 6 part 6.12.

5.12.1 Description of the test location

Test location :	Test location no. 2
Power supply:	AC 230V/50HZ
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test	17-21 August 2015
Operator	Eric

5.12.2 Severity levels of voltage short interruptions

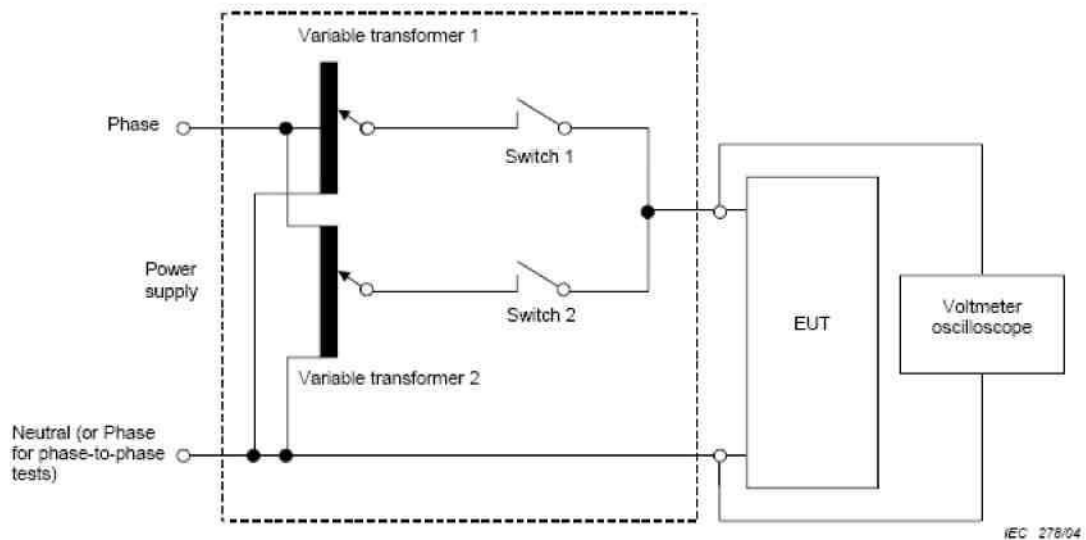
Test Level (%Ut)	Voltage Short Interruptions (%Ut)	Performance Criterion	Duration (in period)
0	100	c	250

5.12.3 Description of the test set-up

5.12.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.12.3.2 Block Diagram of Test Setup





5.12.4 Test specification:

Nominal Mains Voltage (V_N):	■ AC 230 V
Number of voltage fluctuations:	■ 3
Level of reduction(dip) / duration:	■ 5000 ms

5.12.5 Test result

The requirements are Fulfilled

Performance Criterion: C

Remarks: **During the test no deviation was detected to the selected operation mode(s).**

6 USED TEST EQUIPMENT

6.1

Radiated disturbance (Electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03/24
2	EMI Test Receiver	ROHDE & SCHWARZ	ESVS 10	842885/001	2014/11/04
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2015/03/24
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03/24
5	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03/24
6	Pre-Amplifier	EMC	EMC330	980113	2015/03/24
7	Pre-Amplifier	EMC	EMC012645	980114	2015/03/24
8	EMI Test Software	Farad	EZ-EMC	N/A	N/A

6.2

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2014/11/04
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2014/11/04
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z6	100140	2014/11/04
4	Pulse Limiter	ROHDE & SCHWARZ	ESHS-Z2	100301	2014/11/04
5	EMI Test Software	Farad	EZ-EMC	N/A	N/A

6.3

Harmonic Current					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Harmonic And Flicker Analyzer	EMC Partner	HarmonicsI 000-1P	103488	2014/11/04
2	Harmonics-1000	EMC Partner	N/A	N/A	N/A

6.4

Voltage Fluctuation and Flicker					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Harmonic And Flicker Analyzer	EMC Partner	HarmonicsI 000-1P	103488	2014/11/04
2	Harmonics-1000	EMC Partner	N/A	N/A	N/A

6.5

Electrostatic Discharge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	Schloder	SESD 200	0302016	2015/03/24

6.6

RF Field Strength Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal Generator	ROHDE & SCHWARZ	SMY01	843215/014	2014/11/04
2	Signal Generator	ROHDE & SCHWARZ	SML03	102986	2014/11/04
3	Amplifier	KALMUS	713FC	7385-1	2014/11/04
4	Power Meter	ROHDE & SCHWARZ	NRVS	842856/049	2014/11/04
5	Field Probe	ETS	HI-6005	00075047	2014/11/11
6	RS Test Software	Farad	EZ-RS	N/A	N/A

6.7

Electrical Fast Transient/Burst					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2014/11/04
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN1000-08	2014/11/04
3	Coupling Clamp	EMC Partner	SFT410	0302015	2014/11/04
4	Genecs Software	EMC Partner	N/A	N/A	N/A

6.8

Surge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2014/11/04
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN 1000-08	2014/11/04
3	Coupling Clamp	EMC Partner	SFT410	0302015	2013/11/05
4	Genecs Software	EMC Partner	N/A	N/A	N/A

6.9

Conducted Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	RF generator / amplifier	Schlbder	CDG 6000	HU906007	2014/11/04
2	CDN	Schlbder	CDNM3	A3003008	2014/11/04
3	CDN	Schlbde	CDNT2	A3010005	2014/11/04
4	Attenuator	Abschwacher	DC-500MHZ	N/A	2014/11/04
5	EM injection clamp	Liithi	EM101	35670	2013/11/06
6	CDG-6000 Software	Schlbder	N/A	N/A	N/A



6.10

Power Frequency Magnetic Field Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator	EM TEST	EMS61000-8K	409001	2014/11/04

6.11

Voltage Dips

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2014/11/04
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN1000-08	2014/11/04
3	GenecsSoftware	EMC Partner	N/A	N/A	N/A

6.12

Voltage Short Interruptions

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2014/11/04
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN 1000-08	2014/11/04
3	GenecsSoftware	EMC Partner	N/A	N/A	N/A

7 TEST PHOTOGRAPHS

7.1. Photo of power line conducted emission measurement (C.E.)



7.2. Photo of radiated emission measurement (R.E. Electric field)



7.3. Photo of harmonic current and flicker emission measurement (H.&F.)



7.4. Photo of electrostatic discharge Immunity measurement (E.S.D.)



7.5. Photo of RF field strength Immunity measurement (R.S.)



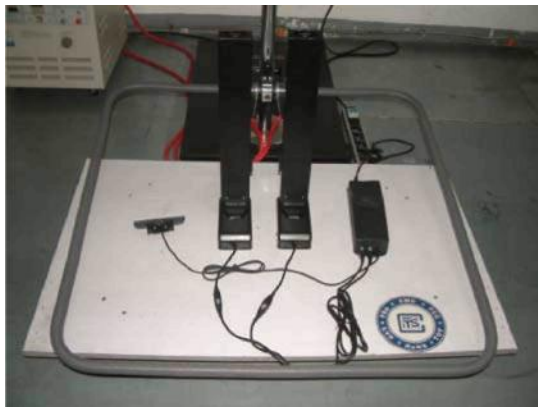
7.6. Photo of EFT/surge/Dips immunity measurement (E.F.T./Surge./Dips.)



7.7. Photo of conducted disturbance Immunity measurement (C.S.)



7.8. Photo of PFM field immunity measurement (P.F.M.F.)



8 External and Internal Photos of the EUT



External view 1



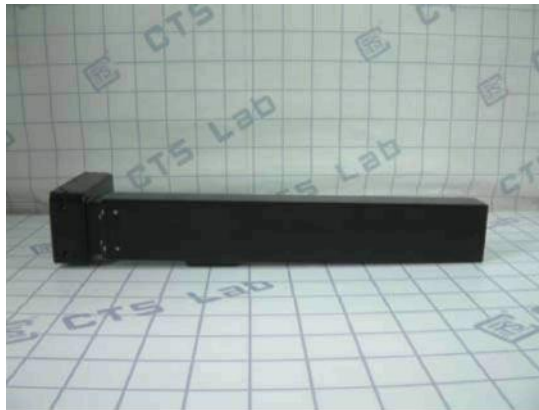
External view 2



External view 3



External view 4



External view 5



External view 6



External view 7



External view 8



Internal view



PCB view 1



PCB view 2



9 Manufacturer / Approval holder Declaration

The following identical model(s):

CTD-B

Belong to the tested device:

Product description: Lifting Column
Model name: CTD-A



CTS

**CTS TESTING SERVICE TECHNOLOGY
OPERATE ACCORDING TO ISO/IEC 17025**

EC DECLARATION OF CONFORMITY

EU - ELECTROMAGNETIC COMPATIBILITY DIRECTIVE -

This declares that the following designated product

Lifting Column
Model N^
(Product identification)

Complies with the essential protection requirements of the European Parliament and of the Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

This declaration applies to all specimens manufactured in accordance with the attached manufacturing drawings which form part of this declaration.

Assessment of compliance of the product with the requirements relating to electromagnetic compatibility was based on the following standards:

EN 61000-6-3: 2007+A1:2011+AC:2012
EN 61000-3-2: 2014, EN 61000-3-3: 2013
bEN 61000-6-1: 2007

(Identification of regulations / standards) This declaration is the responsibility of the Applicant / importer

Ci

THIS DOC IS ONLY VALID IN CONNECTION WITH TEST REPORT NUMBER: CNB3150810-00579-E

MANUFACTURER / IMPORTER

TEST LABORATORY

This is the result of test, that was carried out from the submitted type-samples of a product in conformity with the specification of the respective standards. The declarator holder has the right to fix the CE-mark for EMC on the product complying with the inspection sample.

Date)

21 August 2015

(Date)

Surname, forename)

Company stamp)

Company stamp)

