IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx DEK 13.0011X	Issue No: 13	Certificate history:
Status:	**Current**	Page 1 of 4	Issue No. 13 (2016-08-23) Issue No. 12 (2016-04-06) Issue No. 11 (2016-02-02) Issue No. 10 (2015-09-28) Issue No. 9 (2015-06-15) Issue No. 8 (2015-04-16) Issue No. 7 (2014-12-17) Issue No. 6 (2014-11-21) Issue No. 5 (2014-09-18) Issue No. 4 (2014-07-11) Issue No. 3 (2013-12-19)
Date of Issue:	**2016-08-23**		
Applicant:	**Siemens AG** Werner-von-Siemens-Strasse 50 92224 Amberg **Germany**		
Equipment:	**Programmable Logic Controller System SIMATIC ET 200SP, Modules Type 6ES7 ...**		
Optional accessory:			
Type of Protection:	**Ex nA**		
Marking:	Ex nA IIC T4 Gc		

Approved for issue on behalf of the IECEx Certification Body: R. Schuller

Position: Certification Manager

Signature:
(for printed version)

Date: 2016-08-23

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands

DEKRA

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Manufacturer:	**Siemens AG** Werner-von-Siemens-Strasse 50 92224 Amberg **Germany**	

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NL/DEK/ExTR13.0013/00	NL/DEK/ExTR13.0013/01	NL/DEK/ExTR13.0013/02
NL/DEK/ExTR13.0013/03	NL/DEK/ExTR13.0013/04	NL/DEK/ExTR13.0013/05
NL/DEK/ExTR13.0013/06	NL/DEK/ExTR13.0013/07	NL/DEK/ExTR13.0013/08
NL/DEK/ExTR13.0013/09	NL/DEK/ExTR13.0013/10	NL/DEK/ExTR13.0013/11
NL/DEK/ExTR13.0013/12	NL/DEK/ExTR13.0013/13	

Quality Assessment Report:

NL/DEK/QAR12.0079/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Modules Type 6ES7 ... for use in SIMATIC ET 200SP Programmable Logic Controller Systems.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **Table 1, see Annex 1.**

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **Table 1, see Annex 1.**

CONDITIONS OF CERTIFICATION: YES as shown below:

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to IEC 60079-15, taking into account the environmental conditions under which the equipment will be used.

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Addition of module 6ES7 155-6AU00-a for use in SIMATIC ET 200SP Programmable Logic Controller Systems.

Annex:

DEK 13.0011X - issue 13 - ExTR13.0013-13.pdf

DEKRA

Annex 1 to Certificate of Conformity IECEx DEK 13.0011X, issue 13 / Testreport NL/DEK/ExTR13.0013/13

Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
Base Unit	6ES7 193-6BP00-a	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaAa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP40-a	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Interface Module IM 155-6 PN ST	6ES7 155-6AU00-a	T4	0...+60°C	supply 24 Vdc, 340mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA 2x RJ 45 Busadapter	6ES7 193-6AR00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Servermodule	6ES7 193-6PA00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
8DI, 24Vdc ST	6ES7 131-6BF00-aBaa	T4	0...+60°C	supply - 24 Vdc, 750 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
16DI, 24Vdc ST	6ES7 131-6BH00-a	T4	0...+60°C	supply - 24 Vdc, 90 mA Inputs - 24 Vdc, 16 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A ST	6ES7 132-6BF00-aBaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
16DQ, 24Vdc/0,5A ST	6ES7 132-6BH00-a	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
4DQ, 24Vdc/2A ST	6ES7 132-6BD20-aBaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
4AI, I 2-/4-wire ST	6ES7 134-6GD00-a	T4	0...+60°C	supply - 24 Vdc, 117 mA 4 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4AI, U / I 2-wire ST	6ES7 134-6HD00-a	T4	0...+60°C	supply - 24 Vdc, 117 mA 4 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
4AI, RTD/TC 2-/3-/4-wire HF	6ES7 134-6JD00-a	T4	0...+60°C	supply - 24 Vdc, 35 mA 4 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
4AQ, 4 x U / I ST	6ES7 135-6HD00-a	T4	0...+60°C	supply - 24 Vdc, 150 mA 4 Output channels at 40°C to 60°C: 4 to 2 channel horizontally mounted at 30°C to 50°C: 4 to 2 channel vertically mounted	24Vdc
CM PtP	6ES7 137-6AA00-a	T4	0...+60°C	supply - 24 Vdc, 29 mA at 30°C to 60°C: 4 to 1 channel horizontally mounted at 20°C to 50°C: 4 to 1 channel vertically mounted	24Vdc

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Base Unit	6ES7 193-6BP20-aaB0	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaCa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA 2x FC Busadapter	6ES7 193-6AF00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
8DI, 24Vdc HF	6ES7 131-6BF00-aCaa	T4	0...+60°C	supply - 24 Vdc, 760 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A HF	6ES7 132-6BF00-aCaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
IO-Link Master	6ES7 137-6BD00-a	T4	0...+60°C	supply - 24 Vdc Input current - 1,25 A 4 channels (IO-Link or DI or DO) Output channels - 0.1 A per channel at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8 F-DI, 24Vdc HF	6ES7 136-6BA00-a	T4	0...+60°C	supply - 24 Vdc, 900 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4F-DQ, 24Vdc/2A PM HF	6ES7 136-6DB00-a	T4	0...+60°C	supply - 24 Vdc, 6.1 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 50°C: 4 A total load vertically mounted at 60°C: 4 A total load horizontally mounted at 50°C: 5 A total load horizontally mounted at 40°C: 6 A total load horizontally mounted	24Vdc
F-PM-E, 24Vdc / 10A PPM	6ES7 136-6PA00-a	T4	0...+60°C	supply - 24 Vdc, 8.7 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 1 channel 8 A p.d. / 8 A res. at 50°C: 4 A total load vertically mounted at 60°C: 4 A total load horizontally mounted at 50°C: 6 A total load horizontally mounted at 40°C: 8 A total load horizontally mounted	24Vdc
IM 151-9F PN CPU	6ES7 151-9FB00-a	T4	0...+60°C	supply - 24 Vdc, 670 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
AI 2xU/I 2-4wire HS	6ES7 134-6HB00-aDaa	T4	0...+60°C	supply - 24 Vdc, 39 mA 2 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
AQ 2xU/I HS	6ES7 135-6HB00-aDaa	T4	0...+60°C	supply - 24 Vdc, 90 mA 2U/I-Output channels At 0°C to 50°C: 2 I-channels horizontally mounted At 50°C to 60°C: 1 I-channel horizontally mounted At 0°C to 40°C: 2 I-channels vertically mounted At 40°C to 50°C: 1 I-channel vertically mounted At 0°C to 55°C: 2 U-channels horizontally mounted At 55°C to 60°C: 1 U-channel horizontally mounted At 0°C to 45°C: 2 U-channels vertically mounted At 45°C to 50°C: 1 U-channel vertically mounted	24Vdc
Interface module IM 155-6 PN HF	6ES7 155-6AU00-aCaa	T4	0...+60°C	supply - 24 Vdc, 700 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Interface module IM 155-6 DP HF	6ES7 155-6BU00-a	T4	0...+60°C	supply - 24 Vdc, 250 mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc

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Technology Module TM Count 1x24V	6ES7 138-6AA00-a	T4	0...+60°C	supply - 24 Vdc, 1.4 A Inputs - 24 Vdc, 3 channels Outputs - 24 Vdc, 2 channel 0.5 A p.d. / 0.5 A resistive / 5W tungsten At 50°C: 1 A total load vertically mounted At 60°C: 0.5 A total load horizontally mounted At 55°C: 1 A total load horizontally mounted	24Vdc
8DI, 24Vdc SRC BA	6ES7 131-6BF60-a	T4	0...+60°C	supply - 24 Vdc, 68 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A SINK BA	6ES7 132-6BF60-a	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DI NAMUR HF	6ES7 131-6TF00-a	T4	0...+60°C	supply - 24 Vdc, 70 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4DQ, 24Vdc/2A HF	6ES7 132-6BD20-aCaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. at 40°C to 60°C: 8 A to 4 A horizontally mounted at 30°C to 50°C: 8 A to 4 A vertically mounted	24Vdc
AI 2xU/I 2-4wire HF	6ES7 134-6HB00-aCaa	T4	0...+60°C	supply - 24 Vdc, 240 mA 2 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8AI, RTD/TC 2-wire HF	6ES7 134-6JF00-a	T4	0...+60°C	supply - 24 Vdc, 35 mA 8 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xU/I HF	6ES7 135-6HB00-aCaa	T4	0...+60°C	supply - 24 Vdc, 90 mA 2U/I-Output channels at 0°C to 45°C: 2 I-channels horizontally mounted at 45°C to 50°C: 1 I-channel horizontally mounted at 0°C to 40°C: 2 I-channels vertically mounted at 40°C to 50°C: 1 I-channel vertically mounted at 0°C to 50°C: 2 U-channels horizontally mounted at 50°C to 60°C: 1 U-channel horizontally mounted at 0°C to 55°C: 2 U-channels vertically mounted at 55°C to 60°C: 1 U-channel vertically mounted	24Vdc
Technology Module TM PosInput1	6ES7 138-6BA00-a	T4	0...+60°C	supply - 24 Vdc, 1.4 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 2 channels 0.5 A p.d. / 0.5 A resistive / 5W tungsten at 50°C: 1 A total load vertically mounted at 60°C: 0.5 A total load horizontally mounted at 55°C: 1 A total load horizontally mounted	24Vdc
BA 2x SRC Busadapter	6ES7 193-6AP00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Base Unit	6ES7 193-6BP20-aaB1	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Base Unit	6ES7 193-6BP20-aaFa	T4	0...+60°C	supply 24 Vdc, 10 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA Send (2xFC)	6ES7 193-6AS00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BU Send (Base Unit)	6ES7 193-6BN00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510	6ES7 510-1DJ00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510F	6ES7 510-1SJ00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512	6ES7 512-1DK00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512F	6ES7 512-1SK00-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CM - DP	6ES7 545-5DA00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	24Vdc

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Technology Module TM Timer DI/DQ 10x24V	6ES7 138-6GC00-a	T4	0...+60°C	supply - 24 Vdc, 3.5 A Inputs - 24 Vdc, 4 channels Outputs - 24 Vdc, 6 channels 0.5 A p.d. / 0.5 A resistive / 5W tungsten Total load 3 A at 35°C to 50°C: 3.5 A to 1.2 A total load vertically mounted at 45°C to 60°C: 3.5 A to 1.2 A total load horizontally mounted	24Vdc
CPU 1515SP PC 2GB (Embedded controller)	6ES7 677-2AA30-a	T4	0...+60°C	supply - 24 Vdc, 1.5 A At 0°C to 55°C: max. 64 modules, 2x 0,5A and 0,1A USB-load, horizontally mounted At 0°C to 60°C: max. 32 modules, 0,3A USB-load, horizontally mounted At 0°C to 50°C: max. 32 modules, 0,3A USB-load, vertically mounted	24Vdc
CPU 1515 SP PC 4GB (Embedded controller)	6ES7 677-2AA40-a	T4	0...+60°C	supply - 24 Vdc, 1.5 A At 0°C to 55°C: max. 64 modules, 2x 0,5A and 0,1A USB-load, horizontally mounted At 0°C to 60°C: max. 32 modules, 0,3A USB-load, horizontally mounted At 0°C to 50°C: max. 32 modules, 0,3A USB-load, vertically mounted	24Vdc
Interface Module IM 155-6 PN BA	6ES7 155-6AR00-a	T4	0...+60°C	supply 24 Vdc, 300mA at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DI, 24Vdc BA	6ES7 131-6BF00-aAaa	T4	0...+60°C	supply - 24 Vdc, 770 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8DI, 24Vdc HS	6ES7 131-6BF00-aDaa	T4	0...+60°C	supply - 24 Vdc, 770 mA Inputs - 24 Vdc, 8 channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
4DQ, 24Vdc/2A HS	6ES7 132-6BD20-aDaa	T4	0...+60°C	supply - 24 Vdc, 8 A Outputs - 24 Vdc, 4 channels 2 A p.d. / 2 A res. / 10 W tung. At 25°C to 50°C: 8 A to 4 A total load vertically mounted At 35°C to 60°C: 8 A to 2.5 A total load horizontally mounted	24Vdc
8AI, I 2-/4- wire BA	6ES7 134-6GF00-a	T4	0...+60°C	supply - 24 Vdc, 725 mA 8 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
8AI, U BA	6ES7 134-6FF00-a	T4	0...+60°C	supply - 24 Vdc, 25 mA 8 Input channels at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
BA SCRJ / RJ45 Busadapter	6ES7 193-6AP20-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA SCRJ / FC Busadapter	6ES7 193-6AP40-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
CPU 1510	6ES7 510-1DJ01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1510F	6ES7 510-1SJ01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512	6ES7 512-1DK01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
CPU 1512F	6ES7 512-1SK01-a	T4	0...+60°C	supply 24 Vdc, 0.6 A at 50°C vertically mounted at 60°C horizontally mounted	24Vdc
Technology Module TM 2x24V Pulse	6ES7 138-6DB00-a	T4	0...+60°C	supply - 24 Vdc, 4.3 A Inputs - 24 Vdc, 2 channels Outputs - 24 Vdc, 2 channels 2.0 A p.d. / 2.0 A resistive / 10 W tungsten Total load 3 A at 35°C to 50°C: 4.3 A to 2.7 A total load vertically mounted at 45°C to 60°C: 4.3 A to 2.7 A total load horizontally mounted	24Vdc
8DQ, 24Vdc/0,5A BA	6ES7 132-6BF00-aAaa	T4	0...+60°C	supply - 24 Vdc, 4 A Outputs - 24 Vdc, 8 channels 0.5 A p.d. / 0.5 A res. / 5 W tung. at 50°C vertically mounted at 60°C horizontally mounted	24Vdc

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AI 2xI 2-/4-wire ST	6ES7 134-6GB00-a	T4	0...+60°C	supply - 24 Vdc, 245 mA 2 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AI 2xU ST	6ES7 134-6FB00-a	T4	0...+60°C	supply - 24 Vdc, 37 mA 2 Input channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xI ST	6ES7 135-6GB00-a	T4	0...+60°C	supply - 24 Vdc, 110 mA 2 Output channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
AQ 2xU ST	6ES7 135-6FB00-a	T4	0...+60°C	supply - 24 Vdc, 80 mA 2 Output channels At 50°C vertically mounted At 60°C horizontally mounted	24Vdc
BA 2xLC Busadapter	6ES7 193-6AG00-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA LC / RJ45 Busadapter	6ES7 193-6AG20-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
BA LC / FC Busadapter	6ES7 193-6AG40-a	T4	0...+60°C	at 50°C vertically mounted at 60°C horizontally mounted	-
Interface module IM 155-6 PN HS	6ES7 155-6AU00-aDaa	T4	0...+60°C	supply - 24 Vdc, 700 mA At 50°C vertically mounted At 60°C horizontally mounted	24Vdc

The Suffix –a denotes any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation etc.