DNV·GL

Certificate No:
TAE00001ZM

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
SIRIUS 3SK1 Safety Relays

Issued to
Siemens AG
Amberg, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**D**
Humidity	**B**
Vibration	**A**

Issued at **Hamburg** on **2017-06-01**

This Certificate is valid until **2022-05-31**.
DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**
Digitally Signed By: Hartmann, Thomas
Location: DNV GL Hamburg, Germany
Signing Date: 2017-06-02 , on behalf of
Duy Nam Le
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

3SK111. Standard basic units safety relays with safe relay outputs or semiconductor outputs 3SK112. Advanced basic units multifunctional safety relays with safe relay outputs, semiconductor outputs or time-delayed outputs 3SK121. Output expansion units 3SK122. Input expansion units 3SK1230 Power supplies for supplying 3SK1 advanced basic units at voltage AC/DC 110…240V

Ratings	
Operational voltage Ue	Control supply: AC 115V, 230V DC 24V AC/DC 110-240V Relay outputs: 240V Semiconductor outputs: 24V
Insulation voltage Ui	Relay outputs: 300V Semiconductor outputs: 50V
Impulse withstands voltage Uimp	Relay outputs: 4kV Semiconductor outputs: 0,8kV
Operational current Ie	Relay outputs: AC-15: 240V / up to 10A DC-13: 24V / up to 6A, 125V / 1,1A, 240V / 0,55A Semiconductor outputs: DC-13: 24V / up to 2A
Rated current Ith	Relay outputs: 5A / 10A Semiconductor outputs: 0,5A / 2A
Rated conditional short-circuit	1kA
Frequency	50 / 60Hz, dc
Type of terminals	Screw-type or spring type
Installation	Rail mounting only
Safety integrity level (IEC 61508)	SIL 3
Performance level (ISO 13849-1)	PLe
Further ratings according manufacturer documentation	

Accessories	
3ZY112.-	Tow pole terminals
3ZY113.-	Three pole terminals
3ZY1212-	Device connector
3ZY1321-	Sealing cover
3ZY1440-	Coding Pins

Ratings and mounting locations according manufacturer documentation.

Application/Limitation

Location Classes:
Temperature: D, Humidity: B, Vibration: A, Enclosure: IP20, EMC: B

DC24V supply voltage, only with assembled surge protection unit, manufactured by Dehn Type BVT AVD 24, rated 24V or equivalent

For installation inside switchboards/ enclosures onboard ships and offshore units.

Type Approval documentation

Test Report No.: IECEE CB SCHEME DE1-51461, 15-E006555-BM-A01, 21227406-002_E6534 21227406-002_E6534B, SA84761C, SA85241T

Tests carried out

IEC 60947-1(ed.5);am1, IEC 60947-5-1(ed.3);am1, IEC 61508, ISO 13849-1, cold, dry heat, damp heat, vibration, flame retardancy, EMC

Marking of product

Manufacturers label containing data and manufacturers type number.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

CERTIFICATE OF COMPLIANCE

Certificate Number	20121220 – E44653
Report Reference	E44653 - 20121215
Issue Date	2012-December-20

Issued to: SIEMENS AG

I IA CE CP R&D-VI 4
WERNER-VON-SIEMENS-STRASSE 48
92220 AMBERG, GERMANY

This is to certify that representative samples of

Auxiliary Devices

Open Type Relay Modules, Type 3SK1 followed by 1 or 2, followed by 1, 2 or 3, followed by 0, 1, 2 or 3, followed 0, 1 or 2 followed by A, B or C followed by B0, J2, L2, B4, B3, W2, or W3 followed by 0, 1, 2, or 4, may be followed by suffix letters and/or numbers.

Accessories Types 3ZY12 and 3ZY13 followed by suffix letters and or numbers.

(See following pages for additional model information.)

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: ANSI/UL 508, "Industrial Control Equipment." And CSA-C22.2 No. 14, "Industrial Control Equipment."

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.
The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with “C” and “US” identifiers: c UL us the word “LISTED”; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus

CERTIFICATE OF COMPLIANCE

Certificate Number	20121220 – E44653
Report Reference	E44653 - 20121215
Issue Date	2012-December-20

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

General:

The Safety system 3SK1 is a modular system.

The concept consists of main or extension units, standard or advanced version, a power-supply and modules with relay and/or semiconductor output and sensor modules. The devices additionally have an output module with contactors inside. The system can be connected over a back board connection.

These devices are intended for use in industrial applications.

The accessories, Types 3ZY12 and 3ZY13, are intended for wall fastening, and terminal connections.

Ratings

Input: Control voltage 24 V dc, 24-230 V ac, 24 V ac/dc and 110-240 V ac/dc, 115 V ac

Output:

Relay Basic	3SK1111…	B300/R300 (pilot duty), Maximum 12 A Continuous for all outputs
Relay Advanced	3SK1121…	B300/R300 (pilot duty), Maximum 12 A Continuous for all outputs
Electronic Basic	3SK1112…	24 V dc / max 2A
Electronic Advanced	3SK1120/22…	24 V dc / max 2A
Power extension	3SK1213…	A300/P300
Power Supply	3SK1230…	Input 110...240V ac/dc Output 24 V dc / 0.6 A

AMBIENT: Surrounding air temperature 60°C

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	20121220 – E44653
Report Reference	E44653 - 20121215
Issue Date	2012-December-20

Nomenclature Breakdown

3SK1	1	1	1	0	A	B0	0	.....
I	II	III	IV	V	VI	VII	VIII	IX

I. Basic
3SK1

II. Type of device

1 – main unit
2 – extension unit

III. Subtype of device

For type 3SK11
1 – Basic
2 – Advanced

For type 3SK12
1 – Output extension unit
2 – Input extension unit
3 – Power module

IV. Type of Output

0 – without output
1 – Relay output
2 – Semiconductor output
3 – Contactor output

V. Type of terminal

0 – without terminal
1 - Screw terminal
2 – Spring terminal

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number	20121220 – E44653
Report Reference	E44653 - 20121215
Issue Date	2012-December-20

Nomenclature Breakdown (Cont.)

VI. Numbers of output

For type 3SK11
A - 3 release circuit
B - 2 release circuit
C - 4 release circuit

For type 3SK121
A - 3 release circuit
B - 4 release circuit

For type 3SK122/3SK123
A - Invariable

VII. Nominal voltage (Control voltage)

B0 - AC 50/60 Hz, 24 V
J2 - AC 50/60 Hz, 115V
L2 - AC 50/60 Hz, 230V
B4 - DC 24V
B3 - AC 50/60 Hz, DC, 24 V
W2 - AC 50/60 Hz, DC, 110 - 240 V
W3 - AC 50/60 Hz, DC, 24 – 240

VIII. Time delay

0 - No time delay
1 – 0.05 - 3 seconds delay time
2 – 0.5 - 30 seconds delay time
4 - 5 - 300 seconds delay time

XI. Manufacturer's use (Non-critical)

Any alphanumeric suffix

William R. Carney

William R. Carney, Director, North American Certification Programs

UL LLC

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Certificate of Compliance

Certificate: 2577515 **Master Contract:** 165071

Project: 2577515 **Date Issued:** January 16, 2013

Issued to: **Siemens AG**

I IA CE CP R&D-VI 4
Werner-von-Siemens-Strasse 48
Amberg, 92220
Germany
Attention: Mr. Michael Schröck

The products listed below are eligible to bear the CSA Mark shown

J.-C. Chow

Issued by: J.-C. Chow

PRODUCTS

CLASS 3211 07 - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus

Modular electronic and relays system, open type devices for use in industrial applications, Type 3SK1..., rated supply voltage 24 Vdc (+/- 15%), with ratings:

Input control voltage: 24 Vdc, 24 - 230 Vac, 24 Vdc/ac, 110 (115) - 240 Vac/dc, or 115 Vac

Output:
- Relay Basic, Type 3SK1111, B300/R300 (pilot duty), 5 Amax relay contact, 12 Amax (total) outputs
- Relay Advanced, Type 3SK1121, B300/R300 (pilot duty), 5 Amax relay contact, 12 Amax (total) outputs
- Electronic Basic, Type 3SK1112, 24 Vdc, 2 Amax electronic outputs
- Electronic Advanced, Type 3SK1120, 24 Vdc, 0.5 Amax; and Type 3SK1122, 24 Vdc, 0.5 Amax and 2 Amax electronic outputs

Power extension, Type 3SK1213, A300/P300 contactor output

Power Supply, Type 3SK1230, Input 110..240 Vac/dc, Output 24 Vdc, 0.6 A

Accessories: terminal connection, sealable cover, wall fastening, and coding adapter, Types 3ZY12.., and 3ZY13… (followed by suffix: letters and/or numbers).

Notes:

1. The type designation may be completed with suffixes.

2. These open devices are Certified as component for use only in Certified equipment where the acceptability of combination is to be determined by CSA International.

Certificate: 2577515 **Master Contract:** 165071

Project: 2577515 **Date Issued:** January 16, 2013

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3. The modular electronic and relay system Type 3SK1… has been tested at surrounding air temperature 60°C.

Nomenclature Breakdown

3SK1	1	1	1	-	0	A	B0	0	.....
I	II	III	IV		V	VI	VII	VIII	IX

I Basic designation

3SK1

II Type of device

1 main unit

2 extension unit

III Subtype of device

For Type 3SK11:

1 Basic unit

2 Advanced unit

For Type 3SK12:

1 Output extension unit

2 Input extension unit

3 Power module unit

IV Type of Output

0 without output

1 relay output

2 semiconductor output

3 contactor output

V Type of terminal

0 without terminal

1 screw terminal

2 spring terminal

VI Numbers of output

For Type 3SK11:

A 3 release circuit

B 2 release circuit

C 4 release circuit

For Type 3SK121:

A 3 release circuit

B 4 release circuit

For Type 3SK122/3SK123:

A Invariable

VII Nominal voltage

B0 AC 50/60 Hz, 24 V

J2 AC 50/60 Hz, 115V

L2 AC 50/60 Hz, 230V

B4 DC 24V

B3 AC 50/60 Hz, DC, 24 V

W2 AC 50/60 Hz, DC, 110 - 240 V

W3 AC 50/60 Hz, DC, 24 - 240

VIII Time delay

0 No time delay

1 0.05 - 3 seconds delay time

2 0.5 - 30 seconds delay time

4 5 - 300 seconds delay time

IX Manufactures use

.. May be followed by suffix letters and/or numbers

APPLICABLE REQUIREMENTS

Certificate:	2577515	**Master Contract:**	165071
Project:	2577515	**Date Issued:**	January 16, 2013

CSA-C22.2 No. 14-10 - Industrial Control Equipment

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Siemens AG DF CP Werner-von-Siemens-Strasse 48 92220 Amberg Germany
DESCRIPTION	SIRIUS Safety Relays
TYPE	3SK1①②③-④⑤⑥⑦

① Type of device:	1 - Main unit 2 - Extension unit
② Subtype of device 3SK11:	1 - Basic 2 – Advanced
Subtype of device 3SK12:	1 - Output extension unit 2 - Input extension unit
③ Type of output:	0 - Without output 1 - Relay output 2 - Semiconductor output 3 - Relay Output expansion
④ Type of terminal:	1 -Screw terminal 2 - Spring terminal

Certificate No.	16/20005
Issue Date	21 January 2016
Expiry Date	20 January 2021
Sheet	1 of 3

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

LR031.1.2013.12

Thortsen Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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Lloyd's Register

TYPE continued	⑤ Number of outputs:	A - 3 release circuits B - 2 release circuits C - 4 release circuits
	⑥ Control Supply Voltage:	J2 - 115 V ac L2 - 230 V ac B4 - 24 V dc B3 - 24 V ac/dc W2 - 115-240 V ac/dc
	⑦ Time delay function:	0 - no time delay 1 - 0,05 – 3 seconds delay time 2 - 0,5 – 30 seconds delay time 4 - 5 – 300 seconds delay time
APPLICATION	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 (general power distribution zone) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – July 2015.	
ADDITIONAL TESTS	Low temperature test (-25°C/16hrs)	
STANDARD	IEC60947-1: 2007-06 + A1: 2010-12 + A2: 2014-09 IEC60947-5-1: 2003-11 + A1: 2009-04	
RATINGS	Installation: Supply voltage:	Rail mounting 24 Vdc 24 Vac/dc 115 Vac, 230 Vac 115 – 240 Vac/dc
	Auxiliary circuit Rated voltage:	Ue = 240V (relay output) Ue = 24V (semiconductor output)

Certificate No.	16/20005
Issue Date	21 January 2016
Expiry Date	20 January 2021
Sheet	2 of 3

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

LR031.1.2013.12

Thortsen Wolff
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RATINGS continued	Rated insulation voltage:	Ui = 300V (relay output) Ui = 50V (semiconductor output)
	Rated imp. withstand voltage:	Uimp = 4kV (relay output) Uimp = 0,8kV (semiconductor output)
	Rated current:	Ith = 5A / 10A (relay output) Ith = 0.5A / 2A (semiconductor output)
	Rated frequency:	50 / 60 Hz, dc
	Rated conditional short circuit:	1kA
	Utilization categories:	AC-15, DC-13
OTHER CONDITIONS	24Vdc power supply lines are to be protected by surge protection unit, manufactured by Dehn, type BVT AVD 24, rated 24V or equivalent.	

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 32990-16 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	16/20005
Issue Date	21 January 2016
Expiry Date	20 January 2021
Sheet	3 of 3

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

LR031.1.2013.12

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SIEMENS

A0210

Confirmation

确认书

Product identification:
产品

DF CP Products, DF CP 产品

3RA, 3RB, 3RE, 3RF, 3RG, 3RH, 3RK, 3RM, 3RN, 3RP,3RQ, 3RR, 3RS, 3RT, 3RU, 3RV, 3RW, 3RX, 3SB, 3SE, 3SF, 3SK, 3SU1, 3SX, 3TB, 3TC, 3TD, 3TE, 3TF, 3TG, 3TH, 3TK, 3TS, 3TX, 3TY, 3UA, 3UC, 3UF, 3UG, 3US, 3UL, 3UW, 3UX, 3VS, 3VU, 3ZY, 4A, 4AM, 4E, 4FD, 6BK, 6GK, 7PU, 7PV, 8WD, LZS, LZX, 7MH,4FK, 4FL

Manufacturer:
厂商

Siemens AG, DF CP

Address:
地址

DE-92220 Amberg

Chinese Quality Check Mark
质量检验合格证明

Hereby we confirm that all the Products from DF CP are compliant with the Chinese Quality Law. Main demand of this law is that the product quality shall be inspected and acceptable and that the product complies with the standard and requirements for safeguarding the health.
我们特此证明DF CP的所有产品符合《中国产品质量法》。该法主要要求是产品质量经过检验合格，产品符合标准和保障人身健康的要求。

Siemens Aktiengesellschaft
DF CP R&D
92220 Amberg

2016-09-26 Amberg
date of issue place

Fritz Royer
Head of Project Management Mechatronics

Markus Meier
Head of Project Management Electronics

This confirmation does not imply any guarantee of quality or durability. The safety instructions of the accompanying product documentation shall be observed.
Diese Bestätigung enthält keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas; Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

SIEMENS

Nummer: **3268**
Number:

Bestätigung
Confirmation

Name und Anschrift:
Name and address:
Siemens AG, DF CP
DE-92220 Amberg

Produktbezeichnung:
Designation of the product:
Sicherheitsschaltgerät
Safety relay

Typ:
Type:
3SK1

Wir bestätigen, daß die Sicherheitsschaltgeräte 3SK1 die Störfestigkeitspegel nach Standard EN50121-3-2: 2006-07-01 entsprechend nachfolgender Tabelle 1 bestanden haben.

We confirm that safety relays type 3SK1 passed immunity tests of Standard EN50121-3-2: 2006-07-01 according to below table 1

Amberg, 2014-11-04

(Ort und Datum der Ausstellung)
(Place and date of issue)

i.V.
DF CP R&D EN Mr. Knauer

i.V.
DF CP R&D V Mr. Schweiger

(Name und Unterschrift oder gleichwertige Kennzeichen des Befugten)
(name and signature or equivalent marking of authorized person)

Bei diesen Leistungsmerkmalen handelt es sich nicht um Beschaffenheitsgarantien im Sinne des § 443 BGB
These rating notes are not a guarantee for physical constructions in the sense of § 443 BGB

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme; Managing Board: Joe Kaeser, Chairman, President and Chief Executive Officer; Roland Busch, Lisa Davis, Klaus Helmrich, Hermann Requardt, Siegfried Russwurm, Ralf P. Thomas; Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684; WEEE-Reg.-No. DE 23691322

SIEMENS

Tabelle 1
Table 1:

Test	Test Level	Result	Note
Electromagnetic RF fields 80 – 1000MHz, AM, EN 61000-4-3	10 V/m	passed	EN 50121-3-2 Table 9 / Note 1
Electromagnetic RF fields 1,4 – 2,1GHz, AM, EN 61000-4-3	10 V/m	passed	EN 50121-3-2, Table 9 / Note 3
Electromagnetic RF fields 2,1 – 2,5 GHz, AM, EN 61000-4-3	5 V/m	passed	
conducted RF- Fields, EN61000-4-6, 0,15 MHz – 80MHz, 80% AM, 1 kHz	10 V	passed	
Burst , EN 61000-4-4	± 2 kV	passed	
Surge. EN61000-4-5	2 kV (L - PE) 1 kV (L - L)	passed	

EN50121-3-2 / Table 9 / Note 1:
This limit applies to equipment mounted in the passenger compartments, driver cab or external to the rolling stock (roof, underframe). For equipment mounted in all other areas a severity level of 10V/m may be used.

EN50121-3-2 / Table 9 / Note 3:
The immunity test levels may be reduced for equipment mounted in areas where the threat from mobile digital radio telephones has been demonstrated to be less severe.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

3161f

Product Service

Attestation of Conformity

No. M8B 16 06 38717 049

Holder of Certificate: **Siemens AG**
DF CP
Werner-von-Siemens-Str. 48
92220 Amberg
GERMANY

Product: **Safety components**
Safety control gears

Model(s): **SIRIUS 3SK1**

Parameters:

Degree of protection:	IP20
HFT:	1
Temperature Range:	
Operation:	-25°C ... +60°C
Storage:	-40°C ... +80°C

Further approvals can be found in the report SA84755C. The report SA84755C and the user documentation in the currently valid revision are mandatory part of this certificate.

Tested according to: EN ISO 13849-1:2015 (Cat 4, PL e)
IEC 62061(ed.1);am1;am2 (SILCL 3)

This Attestation of Conformity is issued on a voluntary basis according to Council Directive 2006/42/EC relating to machinery. It confirms that the listed equipment (Annex IV equipment under conformity declaration to article 12(3)a) complies with the principal protection requirements of the directive. It refers only to the sample submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

Test report no.: SA84755T

Date, 2016-06-23 (Peter Weiss)

CE After preparation of the necessary technical documentation as well as the EC declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

TÜV®

SIEMENS

Prüf-Nr./Q-Nr.: *Certificate No.:* **3136**

Dienststelle: *Department:* **I IA CE CP R&D-VI 4 / Witlatschil**

Ort: *Place:* **Amberg** Tag: *Date:* **16.01.2013**

Anlagen: *Enclosures:* **Test Summary 3136**

Prüfbescheinigung / *Test – Certificate*

Erzeugnis / *Product:* **Sicherheitsschaltgerät / Safety device**

Typ: *Type:* **3SK1...**

Tech. Daten: *Specification:* **U_e = 24 / 230 V, U_{imp} = 4KV / 0,8KV I_{th} = max 10 A**

Hersteller: *Manufacturer:* **Siemens AG I IA CE**

Art der Prüfung / *Type of test:* **Type Test**

Prüfer / *Tested by:* **R&D VI 2 Hr. Stadlbauer**

Labor / *Laboratory:* **LOVAG registered and DAkkS accredited Testing Laboratory Siemens AG, Amberg**

Angewandte Prüfbestimmungen / *Test specifications applied:*

IEC 60947-5-1, Edition 3.1: 2009-07
IEC 60947-1 Edition 5.1: 2011-03

Durchgeführte Prüfungen / *Tests conducted:*
see test summary

Prüfergebnis / *Test results:*
All requirements of the test specification are met.

Bemerkungen / *Remarks:* **Issued: 16.01.2013**

Unterschrift / *Signature*

Gegengezeichnet / *Released by:*

i.V. Schweiger

I IA CE CP R&D-VI Mr. Schweiger

i.V.

I IA CE CP R&D-PM Mr. Koppmann

SIEMENS AG **Industry Sector**

S. Russwurm (Head)

Siemens Aktiengesellschaft: Chairman of the Supervisory Board: Gerhard Cromme;
Managing Board: Peter Loescher, Chairman, President and Chief Executive Officer; Roland Busch, Brigitte Ederer, Klaus Helmrich, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmssen, Michael Suess
Registered offices: Berlin and Munich, Germany; Commercial registries: Berlin Charlottenburg, HRB 12300, Munich, HRB 6684
WEEE-Reg.-No. DE 23691322

SIEMENS

LOVAG

DAkkS Deutsche Akkreditierungsstelle D-PL-11055-04-01

Test summary

Certificate No.: 3136

Manufacturer:	***Siemens AG I IA CE Amberg*** ***Werner-von-Siemens-Str. 48, 92220 Amberg***
Test device:	***Safety device***
Type:	***3SK1..***
Test specification:	***IEC 60947-5-1 Ed. 3.1 2009-07*** ***IEC 60947-1 Ed. 5.1 2011-03***
Test report No.:	***12006ENI01, 12006ENI02a,*** **12-E005351-BM-A01**

Test report no.: 12006ENI01

IEC 60947-5-1

Sample No.	Test sample	Date code	Rating
		Seq. I	
12006EN001	3SK1111-2AB30	E00 V0.00	Ith=5A / 2A; Uimp=4kV / 0,8kV
12006EN002	3SK1111-1AB30	E00 V0.00	Ith=5A / 2A; Uimp=4kV / 0,8kV
12006EN003	3SK1111-2AW20	E00 V0.00	Ith=5A / 2A; Uimp=4kV / 0,8kV
12006EN004	3SK1112-2BB40	E00 V0.00	Ith=2A / 0,5A; Uimp=0,8kV
12006EN005	3SK1121-2AB40	E00 V0.00	Ith=5A / 2A; Uimp=4kV / 0,8kV
12006EN006	3SK1122-2AB40	E00 V0.00	Ith=2A / 0,5A; Uimp=0,8kV
12006EN007	3SK1211-2BB00	E00 V0.00	Ith=5A / 1A; Uimp=4kV / 0,8kV
12006EN008	3SK1211-2BW20	E00 V0.00	Ith=5A / 1A; Uimp=4kV / 0,8kV
12006EN009	3SK1213-2AJ20	E00 V0.00	Ith=10A; Uimp=4kV / 0,8kV
12006EN010	3SK1213-2AL20	E00 V0.00	Ith=10A; Uimp=4kV / 0,8kV
12006EN011	3SK1230-1AW20 3SK1220-1AB40 3SK1121-1CB41 3SK1211-1BB40 3ZY1212-1BA00 3ZY1212-2BA00 (2x) 3ZY1212-2DA00	E00 V0.00 E00 V0.00 E00 V0.00 E00 V0.00 LO/120405 E00 LO/120405 E00 LO/120405 E00	Ith=5A / 1A; Uimp=4kV / 0,8kV
12006EN012	3SK1220-2AB40 3SK1122-2CB41 3SK1213-2AB40 3ZY1212-1BA00 3ZY1212-2BA00 3ZY1212-0DA01	E00 V0.00 E00 V0.00 E00 V0.00 LO/120405 E00 LO/120405 E00 LO/120405 E00	Ith=10A / 2A; Uimp=4kV / 0,8kV

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Test summary

Certificate No.: 3136

Sample No.	Test sample	Date code	Rating
12006EN013	3SK1120-2AB40 3RM1007-2AA04 3ZY1212-1BA00 3ZY1212-2FA00	E00 V0.00 E00 LO/120405 E00 LO/120405 E00	Ith=10A / 3A / 0,5A; Uimp=6kV / 4kV / 0,8kV
12011PM018 up to 12011PM028 12011PM051	3ZY1131-1BA00 3ZY1131-2BA00	A5E0313673600A A5E0313673600A	Mechanical terminal test
12011PM118 up to 12011PM129	3ZY1131-2BA00	A5E0313673600A	Electrical terminal test
12006EN136 up to 12006EN141	6-pole terminal block	968 1122 01-04 968 1123 01-04	Mechanical terminal test
12006EN130 up to 12006EN135	6-pole terminal block	968 1123 01-04	Electrical terminal test
Seq. II/III			
12006EN020	3SK1112-1BB40	E00 V0.00	Q1: DC-13 24V / 2A
12006EN021	3SK1112-1BB40	E00 V0.00	QM1: DC-13 24V / 0,5A
12006EN022	3SK1120-1AB40	E00 V0.00	QM1: DC-13 24V / 0,5A
12006EN023	3SK1111-1AB30	E00 V0.00	41/42: AC-15 240V / 1,5A
12006EN034	3SK1111-1AB30	E00 V0.00	41/42: DC-13 24V / 1A
12006EN035	3SK1111-2AB30	E00 V0.00	13/14: AC-15 240V / 4A
12006EN037	3SK1111-1AB30	E00 V0.00	23/24: DC-13 24V / 5A
12006EN025	3SK1111-1AW20	E00 V0.00	33/34, 41/42: DC-13 125V / 0,2A
12006EN026	3SK1111-1AW20	E00 V0.00	13/14, 41/42: DC-13 240V / 0,1A
12006EN027	3SK1121-1CB42	E00 V0.00	13/14: AC-15 240V / 3A 23/24: DC-13 24V / 3A 37/38: DC-13 125V / 0,2A 47/48: DC-13 240V / 0,1A
12006EN028	3SK1213-1AB40	E00 V0.00	13/14: AC-15 240V / 10A 33/34: DC-13 24V / 6A
12006EN029	3SK1213-1AB40	E00 V0.00	13/14: DC-13 125V / 1,1A 33/34: DC-13 240V / 0,55A
12006EN030	3SK1213-1AL20	E00 V0.00	13/14: AC-15 240V / 10A 33/34: DC-13 24V / 6A
12006EN031	3SK1213-1AL20	E00 V0.00	13/14: DC-13 125V / 1,1A 33/34: DC-13 240V / 0,55A

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Test summary

Certificate No.: 3136

Sample No.	Test sample	Date code	Rating
Seq. IV			
12006EN040	3SK1111-1AB30	E00 V0.00	33/34: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 10A
12006EN076	3SK1111-1AB30	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 3A
12006EN042	3SK1111-1AB30	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN043	3SK1111-1AB30	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A
12006EN072	3SK1111-1AB30	E00 V0.00	41/42: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 6A
12006EN045	3SK1111-1AB30	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 3A
12006EN046	3SK1111-1AB30	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN047	3SK1111-1AB30	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A
12006EN048	3SK1121-2AB40	E00 V0.00	33/34: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 10A
12006EN049	3SK1121-2AB40	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 4A
12006EN050	3SK1121-2AB40	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN074	3SK1121-2AB40	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A
12006EN052	3SK1121-2AB40	E00 V0.00	41/42: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 6A
12006EN078	3SK1121-2AB40	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 2A
12006EN054	3SK1121-2AB40	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN055	3SK1121-2AB40	E00 V0.00	41/42: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A
12006EN056	3SK1211-1BB00	E00 V0.00	33/34: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 10A
12006EN057	3SK1211-1BB00	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 3A
12006EN058	3SK1211-1BB00	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN059	3SK1211-1BB00	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A

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Test summary

Certificate No.: 3136

Sample No.	Test sample	Date code	Rating
12006EN064	3SK1121-2CB41	E00 V0.00	37/38: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 10A
12006EN065	3SK1121-2CB41	E00 V0.00	37/38: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 3A
12006EN066	3SK1121-2CB41	E00 V0.00	37/38: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 2A
12006EN067	3SK1121-2CB41	E00 V0.00	37/38: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 1A
12006EN068	3SK1213-1AB40	E00 V0.00	13/14: U_{test}=275V / I_{test}=1,1kA Fuse Neozed gL/gG 16A
12006EN069	3SK1213-1AB40	E00 V0.00	23/24: U_{test}=253V / I_{test}=1,1kA automatic cutout char. A 6A
12006EN077	3SK1213-1AB40	E00 V0.00	33/34: U_{test}=253V / I_{test}=1,1kA automatic cutout char. B 4A
12006EN071	3SK1213-1AB40	E00 V0.00	13/14: U_{test}=253V / I_{test}=1,1kA automatic cutout char. C 4A
Seq. V			
12006EN100	3SK1112-2BB40	E00 V0.00	IP20
12006EN101	3SK1121-1CB44	E00 V0.00	IP20
12006EN102	3SK1213-1AB40	E00 V0.00	IP20
Seq. VI			
-	All devices via CAD	E00 V0.00	Measurement of clearances and creepage distances
Annex H			
12006EN110	3SK1120-1AB40	E00 V0.00	Ud=400mV; Im=0,10mA; Ir=2,00mA
12006EN111	3SK1122-2AB40	E00 V0.00	Ud=200mV/300mV; Im=0,10mA; Ir=4,00mA/2,00mA
see test report 12-E005351-BM-A01			Electromagnetic compatibility

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Test summary

Certificate No.: 3136

IEC 60947-1

Sample No.	Test sample	Date code	Rating
Annex S			
12006EN120	3SK1122-1CB42	E00 V0.00	Digital input 24V DC, type 1

Test report no.: 12006ENI02a

IEC 60947-1

Sample No.	Test sample	Date code (Drawing No.)	Rating
12006EN130 up to 12006EN135	6-pole terminal block, spring type	968 1123 01-04	Electrical terminal test
12006EN136 up to 12006EN138	6-pole terminal block, spring type	968 1123 01-04	Mechanical terminal test
12006EN139 up to 12006EN141	6-pole terminal block, screw type	968 1122 01-04	Mechanical terminal test

The tests were carried out on devices, representative for the whole series, fixed on page 6 up to 7.

The tests were carried out in the accredited laboratory:

Type Test Center Siemens AG Amberg
Werner-von-Siemens-Str. 48, 92220 Amberg
Accredited-No.: ***D-PL-11055-04***

The EMC-Tests were carried out in the accredited laboratory of

Siemens AG, EMV-Zentrum Erlangen
Günther-Scharowsky-Str. 21, 91058 Erlangen
Accredited-No.: ***DAT-P-252/98-02***

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Nomenclature breakdown

Certificate No.: 3136

Overview series 3SK1..

Safety Devices 3SK1		1	2	3	4	5	6	7	-	8	9	10	11	12
		3	S	K	1									
Figure 5: Type														
	Main Unit					1								
	Extension Unit					2								
Figure 6: Series														
3SK11	Basic						1							
	Advanced						2							
							3							
3SK12	Output Extension Unit						1							
	Input Extension Unit						2							
	Powermodule						3							
Figure 7: Type of Output														
3SK122 / 3SK123	Without Output							0						
3SK11 / 3SK121	Relay Output							1						
	Semiconductor Output							2						
	Contactor Output							3						
Figure 8: Terminal- Type														
	Screw- type Terminal									1				
	Spring- type Terminal									2				
Figure 9: Number of outputs														
3SK11	3 Release Circuits										A			
	2 Release Circuits										B			
	4 Release Circuits										C			
3SK121	3 Release Circuits										A			
	4 Release Circuits										B			
3SK122 / 3SK123	Invariable A										A			
Figure 10/11: Nominal voltage														
3SK1	AC 50/60 Hz, 24 V											B	0	
	AC 50/60 Hz, 115V											J	2	
	AC 50/60 Hz, 230V											L	2	
	DC 24V											B	4	
	AC 50/60 Hz, DC, 24 V											B	3	
	AC 50/60 Hz, DC, 115 - 240 V											W	2	
	AC 50/60 Hz, DC, 24 - 240 V											W	3	
Figure 12: Delay time														
3SK1	No time delay													0
	0,05 - 3 seconds													1
	0,5 - 30 seconds													2
	5 - 300 seconds													4

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Nomenclature breakdown

Certificate No.: 3136

Overview detachable terminal block 3ZY11..

3ZY11	1	1 -	1	B	A0	0	
I		II	III	IV	V	VI	VII

I **3ZY11 - Basic Type terminal block**

II **Type**

2 - 2-pole
3 - 3-pole

III **Rating of terminal**

1 - 300V

IV **Type of Terminal**

1 - Screw type terminal
2 - Spring type terminal

V **Contact material**

B - Standard
C - Gold

VI **Communication**

A0- not recorded

VII **Version**

0- basic version

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Akkreditierungsstelle
D-PL-11055-04-01

Remarks

Certificate No.: 3136

no remarks

Amberg, 2012-12-10		
Location, Date	(Tested by) (Authorized representative) Mr. Stadlbauer	(Reviewed by) (Assistant laboratory manager) Mr. Prechtl-Schöpf

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Technical data:

Certificate No.:3136

Test item particulars	
Classification of installation and use .....:	
Supply Connection .....:	
- kind of control circuit device .....:	☐ manual control switches, e.g. push-buttons, rotary switches, foot switches, ect. ☐ electromagnetically operated control switches, either time delayed or instantaneous, e.g. contactor relays ☐ pilot switches, e.g. pressure switches, temperature sensitive switches (thermostats) ☐ position switches ☐ associated control equipment, e.g. indicator lights, etc.
- kind of switching elements .....:	☐ auxiliary contacts of a switching device (e.g. contactor, circuit-breaker, etc) which are not dedicated exclusively for use with the coil of that device ☐ interlocking contacts of enclosure doors ☐ control circuit contacts of rotary switches ☐ control circuit contacts of overload relays
- number of poles.....:	up to 4
- kind of current.....:	☒ ac and/or ☒ dc
- interrupting medium.....:	☒ air, ☐ oil, ☐ gas, ☐ vacuum, ☒semiconductor
- operating conditions .....:	
- method of operations.....:	☐ manual ☒ electromagnetic ☐ pneumatic ☐ electro-pneumatic
- method of control.....:	☒ automatic ☐ non-automatic ☐ semi-automatic
- rated and limiting values for switching elements .....:	
- voltages:	
- rated operational voltage Ue (V) .....:	relay outputs: 240V semiconductor outputs: 24V
- rated insulation voltage Ui (V) .....:	relay outputs: 300V semiconductor outputs: 50V
- rated impulse withstand voltage Uimp (kV) .....:	relay outputs: 4kV semiconductor outputs: 0,8kV

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Technical data:

Certificate No.:3136

- currents:	
- conventional free air thermal current Ith (A) .....:	relay outputs: 5A / 10A semiconductor outputs: 0,5A / 2A
- conventional enclosed thermal current Ithe (A).....:	N/A
- rated operational current Ie (A) .....:	see table 1
- rated frequency (Hz).....:	50/60 Hz, dc
- utilization category.....:	AC-15, DC-13, see table 1
- short-circuit characteristic:	
- rated conditional short-circuit current (kA).....:	1kA
- kind of protective device.....:	see table 2
- electrically separated contact elements.....:	opposite polarity between all contacts (stated by manufacturer)
- actuating quantities for pilot switches .....:	N/A
- pilot switches having two or more contact elements .:	N/A
- indication of contact elements of same polarity.....:	N/A
- IP code , in case of an enclosed control device .....:	IP 20
- pollution degree.....:	3
- Suitability for isolation, with the symbol 07-13-06 of IEC 60617-7.....:	N/A

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Technical data:

Certificate No.:3136

	TABLE 1: Utilization category and rated operational current				
MLFB	**Contact /Output**	**AC15**	**DC13**		
3SK1111-*AB30 3SK1111-*AW20 3SK1121-*AB40 3SK1211-*BB40 3SK1211-*BB00 3SK1211-*BW20	NO	240V 4A	240V 0,1A	125V 0,2A	24V 5A
	NC	240V 1,5A	240V 0,1A	125V 0,2A	24V 1A
3SK1121-*CB4*	NO	240V 3A	240V 0,1A	125V 0,2A	24V 3A
3SK1213-*AB40 3SK1213-*AJ20 3SK1213-*AL20	NO	240V 10A	240V 0,55A	125V 1,1A	24V 6A
3SK1112-*BB40 3SK1120-*AB40 3SK1122-*AB40 3SK1122-*CB4*	Q* / Qt*	-	-	-	24V 2A
	QM*	-	-	-	24V 0,5A

	TABLE 2: Performance under conditional short-circuit current							
	SCPD							
MLFB	fuse Neozed gLgG		automatic cutout char. A		automatic cutout char. B		automatic cutout char. C	
	NO	NC	NO	NC	NO	NC	NO	NC
3SK1111-*AB30 3SK1111-*AW20 3SK1121-*AB40 3SK1211-*BB40 3SK1211-*BB00 3SK1211-*BW20	10A	6A	3A	2A	2A	2A	1A	1A
3SK1121-*CB4*	10A	-	3A	-	2A	-	1A	-
3SK1213-*AB40 3SK1213-*AJ20 3SK1213-*AL20	16A	-	6A	-	4A	-	4A	-

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3135.06

EU-Konformitätserklärung / *EU Declaration of Conformity*

Produktbezeichnung: Sicherheitsschaltgerät und Zubehör , 3SK1, 3ZY1
Product identification *Safety relay and accessories*

Hersteller: Siemens AG, DF CP
Manufacturer

Anschrift: DE-92220 Amberg
Address

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

Maschinenrichtlinie:

2006/42/EG Richtlinie des Europäischen Parlaments und des Rates vom 17. Mai 2006 über Maschinen und zur Änderung der Richtlinie 95/16/EG

EMV-Richtlinie:

2014/30/EU Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit; Amtsblatt der EU L96, 29/03/2014, S. 79–106

RoHS-Richtlinie:

2011/65/EU Richtlinie des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten; Amtsblatt der EU L174, 1/07/2011, S. 88–110

Aufzugs Richtlinie:

2014/33/EU Richtlinie der europäischen Parlaments und des Rates vom 26. Februar 2014 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Aufzüge und Sicherheitsbauteile für Aufzüge

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Machinery Directive:

2006/42/EC *Directive of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC*

EMC Directive:

2014/30/EU *Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility; Official Journal of the EU L96, 29/03/2014, p. 79–106*

RoHS Directive:

2011/65/EU *Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment; Official Journal of the EU L174, 1/07/2011, p. 88–110*

Lifts Directive:

2014/33/EU Directive of The European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to lifts and safety components for lifts

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

This declaration is an attestation of conformity with the indicated Directive(s) but does not imply any guarantee of quality or durability. The safety instructions of the accompanying product documentation shall be observed.

Siemens Aktiengesellschaft: Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Joe Kaeser, Vorsitzender;
Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas;
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684; WEEE-Reg.-Nr. DE 23691322

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3135.06

Die Übereinstimmung des bezeichneten Produkts mit den Vorschriften der angewandten Richtlinie(n) wird nachgewiesen durch die vollständige Einhaltung folgender Normen / Vorschriften:

The conformity of the product described above with the provisions of the applied Directive(s) is demonstrated by full compliance with the following standards / regulations:

Normen / *standards*:
Referenznummer
Reference number

EN ISO 13849-1:2015

EN 50581:2012

EN 62061:2005/Cor.:2010/A1:2013/A2:2015

EN 60947-5-1:2004/A1:2009

EN 81-20/2014

Name, Anschrift bevollmächtigte Person für technische Unterlagen:
Name, address of authorised person for technical file

Peter Hartinger, Siemens AG, DF CP
92220 Amberg

Name, Anschrift, Kennnummer der notifizierten Stelle:
name, address, identification number of the notified body

TÜV SÜD Product Service GmbH, Zertifizierstelle, Ridlerstraße 65, 80339 München / Kenn-Nr. 0123

Nummer der EU-Baumusterprüfbescheinigung, Zulassung Qualitätssicherungssystem: M8B 16 06 38717 049
number of the EU type-examination certificate, approval of quality assurance system

Unterzeichnet für und im Namen von: / *signed for and on behalf of:*

Siemens Aktiengesellschaft

Amberg 2016-08-10
Ort / *place* Datum der Ausstellung / *date of issue*

Peter Hartinger
Head of Verification and Certification

i.V.
Name / *name* Unterschrift / *signature*
Funktion / *function*

Markus Meier
Head of Project Management Electronics

i.V.
Name / *name* Unterschrift / *signature*
Funktion / *function*

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

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Siemens Aktiengesellschaft: Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Joe Kaeser, Vorsitzender;
Roland Busch, Lisa Davis, Klaus Helmrich, Janina Kugel, Siegfried Russwurm, Ralf P. Thomas;
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684; WEEE-Reg.-Nr. DE 23691322