

EU-Konformitätserklärung / EU Declaration of Conformity

Produktbezeichnung: Schütze und Zubehör, 3TG10, 5TT39, 6ED10
Product identification *Contactors 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:

Niederspannungsrichtlinie:

2014/35/EU Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung elektrischer Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen auf dem Markt; Amtsblatt der EU L96, 29/03/2014, S. 357–374

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

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:

Low Voltage Directive:

2014/35/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 the making available on the market of electrical equipment designed for use within certain voltage limits; Official Journal of the EU L96, 29/03/2014, p. 357–374

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

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitgarantie. 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

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 60947-4-1:2010/A1:2012

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

EN 50581:2012

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

Siemens Aktiengesellschaft

Amberg

Ort / place

2016-04-20

Datum der Ausstellung / date of issue

Peter Hartinger
Head of Verification and Certification

Fritz Royer
Head of Project Management Mechatronics

i.V.

Name / name

Funktion / function



Unterschrift / signature

i.V.

Name / name

Funktion / function



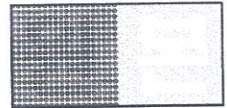
Unterschrift / signature

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방송통신기자재등의 적합등록 필증 *Registration of Broadcasting and Communication Equipments*

상호 또는 성명 <i>Trade Name or Registrant</i>	Siemens AG
기기 명칭 <i>Equipment Name</i>	산업용컴퓨터의 제어를 받는 플랜트설비
기본모델명 <i>Basic Model Number</i>	LOGO!
파생모델명 <i>Series Model Number</i>	
등록번호 <i>Registration No.</i>	KCC-REM-S49-LOGO
제조사/ 제조국가 <i>Manufacturer/ Country of Origin</i>	Siemens AG/중국
인증연월일 <i>Date of Registration</i>	2011년(Year) 04월(Month) 26일(Date)
기타 <i>Others</i>	

위 기기는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
 It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2011년(Year) 04월(Month) 26일(Date)

전파연구소장

*Director General of Radio Research Agency
 Korea Communications Commission, Republic of Korea*

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
 위반시 과태료 처분 및 등록이 취소될 수 있습니다.



CERTIFICATE NUMBER
15-HG1409747-PDA

DATE
17 Aug 2015

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
SIEMENS AG, DF FA AS

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Programmable Logic Controller**

Model: **LOGO!**

This Product Design Assessment (PDA) Certificate 15-HG1409747-PDA, dated 17/Aug/2015 remains valid until 16/Aug/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Ulf (Ulf Numirski) Numirski
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

SIEMENS AG
SIMATIC TYPE TEST
D-92224 AMBERG
Germany
Telephone: 49 9621 80 4316
Fax: 49 9621 80 3146
Email: karlheinz.pflug@siemens.com
Web: www.siemens.de

Tier: 5 - Unit Certification Required

Product: Programmable Logic Controller

Model: LOGO!

Intended Service:

Automation Systems (Monitoring and Control Functions) on AMS, ACC, ACCU, ABCU Classed Vessels.

Description:

LOGO! 230RC, 230RCE, 24RC, 12/24RC, 12/24RCE, 24, 24C, 24o, 24Co, 230RCo, 24RCo, 12/24RCo, 230RCL, 230RCLB11, 24RCLB11, 24RCL, 24L, 12RCL, 24CE, 24CEo, 24RCE, 24RCEo, 12/24RCE, 12/24RCEo, 230RCE, 230RCEo.

Extension Modules: DM8 24, AM2, AM2 PT100, AM2 RTD, DM8 24R, DM8 230R, DM8, 12/24R, DM16 230R, DM16 24, DM16 24R, AM2 AQ, TD (Text Display).

External programming software LOGO! Soft Comfort V6.x, V7.x, V8.x.

Rating:

Max: 12 Inputs 12V or 24V or 12/ 24V DC or 115 / 230V AC; Max: 8 Outputs, 0.3A, 8A or 10A;

Extension Modules Inputs: 4 Digital/ 2 Analogue/ 2xPT100, 8 Digital/ 2xPT100 or 2xPT1000;

Extension Modules Outputs: 2 Analogue, 4 Digital/ Relays, 4 Digital/ Transistor, 8 Digital/ Relay,

8 Digital/ Transistor. Degree of Protection: IP 20.

Service Restriction:

Unit Certification is required for this product by the user to customize this equipment where it is used for Category II or III services as described in Section 4-9-3/Table 1 of the Steel Vessel Rules.

- 1.) Components with 24 V DC supply only to be used in conjunction with lightning protection units.
- 2.) Installation of the units, as per manufacturer's instructions.
- 3.) All 12/24xxx modules only to be used with 24V DC power supply.
- 4.) LOGO! fulfill the EMC requirements for General Power Distribution Zone. Exception: LOGO! -0BA8 series and expansion modules -0BA2 series may be used in bridge and deck zones with filter B84113-C-B30 (or equivalent).

Comments:

- Each particular application/ installation and the user operating software is to be specifically approved in conjunction with the relevant system in which the units are being used.
- System Category III. Manufacturer is to keep evidence of quality plan for software, inspection of hardware components from sub-suppliers and quality control in production. Performance integration, fault simulation, final system factory acceptance tests, on-board system and integration tests to be witnessed by the Surveyor.
- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 02, Specification for Type Test, Revision: 1, Pages: 1

Drawing No. 10.01, Manual, Revision: 1, Pages: 1

Terms of Validity:

This Product Design Assessment (PDA) Certificate 15-HG1409747-PDA, dated 17/Aug/2015 remains valid until 16/Aug/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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D-92224 AMBERG
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Web: www.siemens.de

Tier: 5 - Unit Certification Required

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

STANDARDS

ABS Rules:

2015 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-9-2/ 3.1.1, 4-9-3/ 5.1.1/ 5.1.2/ 5.1.3/ 5.1.4/ 5.1.5/ 5.1.9/ 11.1/ 11.7.1/ 7.1, 4-9-3/ Table 2 and Table 3, as applicable for the inherent basic operating software, 4-9-8/7/13

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA



Certificate of Compliance

Certificate: 2117043 (LR 12730-347)

Master Contract: 165071

Project: 2738769

Date Issued: June 20, 2014

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 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic

CLASS 3211 24 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers-Magnetic

Contactors, Series 3TG10, 6ED10 or 5TT3, with following ratings. For types with 6.3mm quick-connect terminal and non-insulated female connector, the voltage rating may be reduced to 300 Vac max.

Horsepower rating:

Voltage	1-ph	3-ph
115 V	1/2 hp	-
200 V	1 hp	3 hp
230 V	1-1/2 hp	3 hp
460 V	-	5 hp
575 V	-	5 hp

Main contacts, general use rating:

- Types 3TG10..-0., 6ED10 or 5TT3 (screw terminal): 20 A, 600 Vac
- Type 3TG10..-1. (6.3mm quick-connect terminal with insulated female connector): 16 A, 600 Vac
- Type 3TG10..-1. (6.3mm quick-connect terminal with non-insulated female connector): 16 A, 300 Vac

Auxiliary Contacts:

- Types with screw terminal and 6.3mm quick-connect terminal with insulated female connector: A600, Q300; and 240 Vac, 10 A general use

Certificate: 2117043 (LR 12730-347)

Master Contract: 165071

Project: 2738769

Date Issued: June 20, 2014

- Types with 6.3mm quick-connect terminal with non-insulated female connector: A300, Q300; and 240 Vac, 10 A general use

Coil ratings: 24 to 240 Vac max; 12 or 24 Vdc

Short-circuit rating: 5 kA, 600 V when protected by 40 A Fuse Class K5, RK5 or J

Notes:

- The type designation may be completed with suffixes indicating contact arrangements, terminal design, mounting, etc.
- Certified as component for use only in Certified equipment where the acceptability of combination is to be determined by CSA.

Nomenclature Breakdown I

3TG10	01	-	0A	..		.-....
I	II		III	IV		V

I Basic Type

3TG10 contactor

II Contact Arrangement

01 1 auxiliary contact normally closed

10 1 auxiliary contact normally open

III Operating System and terminals

0A ac operating system with screw terminal

0B dc operating system with screw terminal

1A ac operating system with 6.3mm quick-connect terminal

1B dc operating system with 6.3mm quick-connect terminal

2A ac operating system with fourfold 2.8mm quick-connect terminal and 6.3 mm quick-connect terminal for main circuit

3A ac operating system with fourfold 2.8mm quick-connect terminal and slotted 6.3 mm quick-connect terminal for main circuit

IV Coil voltage

.. 24 through 240 V ac; 12 or 24 V dc

V .-.... indicates manufacturer's identification code

Certificate: 2117043 (LR 12730-347)

Master Contract: 165071

Project: 2738769

Date Issued: June 20, 2014

Nomenclature Breakdown II

6ED10	57	-	4EA	..-....
I	II		III	IV

I Basic Type

6ED10 for use with programmable controller

II Contact Arrangement

57 1 auxiliary contact normally open

III Operating System and terminals

4EA ac operating system with screw terminal

4CA dc operating system with screw terminal

IV ..-... indicates manufacturer's identification code

Nomenclature Breakdown III

5TT3	983
I	II

I Basic Type

5TT3 contactor for special customer

II Operating System, terminals, contact arrangement

983, 984 or 985 ac operating system, screw terminal, 1 NO contact

987, 988 or 990 ac operating system, screw terminal, 1 NC contact

986 dc operating system, screw terminal, 1 NO contact

991 dc operating system, screw terminal, 1 NC contact

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 14-13 - Industrial Control Equipment

CAN/CSA-C22.2 No 60947-1-07 - Low-Voltage Switchgear and Controlgear - Part 1: General rules

CAN/CSA-C22.2 No 60947-4-1-07 - Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters

CERTIFICATE OF COMPLIANCE

Certificate Number 20141204-E31519
Report Reference E31519-19960129
Issue Date 2014-December-04

Issued to: SIEMENS AG
DF CP R&D V 3
WERNER-VON-SIEMENS-STRASSE 48
92220 AMBERG GERMANY

**This is to certify that
representative samples of**

MOTOR CONTROLLERS, MAGNETIC
USL, CNL - Type No. 3TG10 followed by 01 or 10 followed by
0A, 0B, 1A, 1B, 2A or 3A, followed by a letter and a number, may
be followed by a combination of characters.

USL, CNL - Type No. 6ED10 followed by 57 followed by -4EA or
-4CA, may be followed by a combination of characters.

USL, CNL - Type No. 5TT3 followed by 983, 984, 985, 986, 987,
988, 990 or 991.

(See following pages for addition information.)

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

Standard(s) for Safety:

UL 60947-1, UL 60947-4-1A and CSA C22.2 NO. 60947-4-1-07
LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR
CSA C22.2 NO. 60947-1-07-CAN/CSA - CONTACTORS AND
MOTOR-STARTERS - ELECTROMECHANICAL CONTACTORS
AND MOTOR-STARTERS

Additional Information:

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

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services
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 20141204-E31519
Report Reference E31519-19960129
Issue Date 2014-December-04

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

Additional Information:

General

These devices are open types 4 pole small contactor relays for use in industrial applications.

Ratings:

<u>Voltage</u>	<u>Horsepower</u>	
	<u>1-ph</u>	<u>3-ph</u>
115 V	1/2 hp	-
200 V	1 hp	3 hp
230 V	1-1/2 hp	3 hp
460 V	-	5 hp
575 V	-	5 hp

For Use with non insulated female connectors only.

<u>Voltage</u>	<u>Horsepower</u>	
	<u>1-ph</u>	<u>3-ph</u>
115 V	1/2 hp	-
200 V	1 hp	3 hp
230 V	1-1/2 hp	3 hp

Main Contacts:

General Purpose Rating
600 V ac, 20 A for screw terminals
600 V ac, 16 A for 6.3 mm quick connect terminals
300 V ac, 16 A for 6.3 mm quick connect terminals
for use with non insulated female connectors only.

B. Mahlenz

Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20141204-E31519
Report Reference E31519-19960129
Issue Date 2014-December-04

Auxiliary Contacts: A600/Q300

240 V / 10 A general purpose

A300/Q300

240 V/10 A general purpose

- for use with non insulated female connectors only

Coil Ratings:

24 V to max. 240 V ac

12 V dc or 24 V dc

Short Circuit Current Ratings:

5 kA / 600 V when protected by 40 A Class K5, RK5 or J fuses.

NOMENCLATURE BREAKDOWN

<u>3TG10</u>	<u>01</u>	-	<u>0A</u>	<u>XX</u>	<u>X-XXXX</u>
I	II		III	IV	V

I. Basic Type, Contactor

II. Contact Arrangement

01 - 1 auxiliary contact normally closed

10 - 1 auxiliary contact normally open

III. -0A - ac operating system with screw terminals

-0B - dc operating system with screw terminals

-1A - ac operating system with 6.3 mm quick connect terminals

-1B - dc operating system with 6.3 mm quick connect terminals

-2A - ac operating system with fourfold 2.8 mm quick connect terminals and 6.3 mm quick connect terminals for main circuit

-3A - ac operating system with fourfold 2.8 mm quick connect terminals and slotted 6.3 mm quick connect terminals for main circuit



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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CERTIFICATE OF COMPLIANCE

Certificate Number 20141204-E31519
Report Reference E31519-19960129
Issue Date 2014-December-04

IV. xx – coil voltage

24 through 240 V ac or 12 or 24 V dc

V. x-xxxx - indicates manufacturer's identification code

6ED10 57 -4EA x-xxxx
I II III IV

I. Basic Type, for use with certified programmable controller

II. Contact Arrangement
57 - 1 auxiliary contact normally open

III. -4EA - ac operating system with screw terminals
-4CA - dc operating system with screw terminals

IV. xx-xxxx - indicates manufacturer's identification code

5TT3 983
I II

I. Basic Type, contactor for special customer

II. Operating system, terminals, contact arrangement
983, 984 or 985 - ac operating system, screw terminals, 1 NO contact
987, 988 or 990 - ac operating system, screw terminals, 1 NC contact
986 - dc operating system, screw terminals, 1 NO contact
991 - dc operating system, screw terminals, 1 NC contact



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