

EU-Konformitätserklärung EU Declaration of Conformity

Nr. / No. **700 / S7-1200 general / J3 / 06.2017**

Produktbezeichnung: **Speicherprogrammierbare Steuerung SIMATIC S7-1200**
(Bestehend aus: Zentralbaugruppe, Digitaleingabebaugruppe, Digitalausgabebaugruppe, Digitalein-/ausgabebaugruppe, Analogeingabebaugruppe, Analogausgabebaugruppe, Analogein-/ausgabebaugruppe, Kommunikationsbaugruppe, Erweiterungsmodule, Zubehörteile)

Product identification: **Programmable Controller SIMATIC S7-1200**
(consisting of: Central Processing Units, Digital Input Modules, Digital Output Modules, Digital Input/Output Module, Analog Input Modules, Analog Output Modules, Analog Input/Output Modules, Communication Modules, Signal Boards, Battery Boards, Communication Boards, Accessories)

Hersteller: Siemens AG
Manufacturer: DF FA AS
Anschritt: Gleiwitzer Str. 555
Address: DE-90475 Nuremberg
Germany

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

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

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union, je nach eingesetzten Komponenten, wie in den Anhängen EMV, NSR, ATEX, RoHS beschrieben, die integraler Bestandteil dieser Konformitätserklärung sind:

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation, depending on the components used, as described in the Annexes EMC, LVD, ATEX, RoHS which are an integral part of this declaration of conformity:

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

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

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

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

ATEX Richtlinie:

2014/34/EU

Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen; Amtsblatt der EU L96, 29/03/2014, S. 309–356

ATEX Directive:

2014/34/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 equipment and protective systems intended for use in potentially explosive atmospheres; Official Journal of the EU L96, 29/03/2014, p. 309–356

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

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

Weitere Angaben über die Einhaltung dieser Richtlinie(n) enthalten die Anhängen EMV, NSR, ATEX, RoHS.

Further information about the conformity to this Directive(s) is given in the Annexes EMC, LVD, ATEX, RoHS.

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

Siemens Aktiengesellschaft

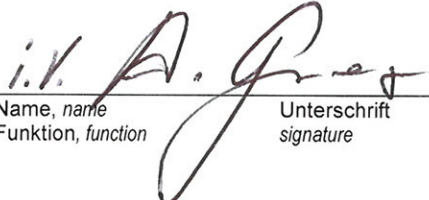
Amberg,
Ort / place,

28.06.2017

Datum der Ausstellung / Date of issue

Alois Gresser
Head of SIMATIC Type Test
DF FA SYS

Florian Göldner
Director Quality Assurance
DF FA MF QM


Name, name
Funktion, function Unterschrift
signature


Name, name
Funktion, function Unterschrift
signature

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 notes included with the product documentation must be observed.

Anhang EMV *Annex EMC* zur EU-Konformitätserklärung *for EU DECLARATION of CONFORMITY*

Nr. / No. **700 / S7-1200 general / J3 / 06.2017**

Produktbezeichnung: **Speicherprogrammierbare Steuerung SIMATIC S7-1200**

Product identification: **Programmable Controller SIMATIC S7-1200**

Die nachfolgend angeführten Komponenten des oben beschriebenen Gegenstandes der Erklärung erfüllen die einschlägige Harmonisierungsrechtsvorschrift der Union:

The below-mentioned components of the object of the declaration described above are in conformity with the relevant Union harmonisation legislation:

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

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*

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 designated product with the provisions of the applied Directive(s) is proved by full compliance with the following standards / regulations:

Harmonisierte Europäische Normen:

Harmonized European Standards:

Referenznummer <i>Reference number</i>	Ausgabedatum <i>Edition</i>
EN 61000-6-4	2007+A1:2011
EN 61000-6-2	2005

Das Produkt „Speicherprogrammierbare Steuerung SIMATIC S7-1200“, für welche dieser Anhang gilt, besteht aus den folgenden Komponenten:

The product "Programmable Controller SIMATIC S7-1200" to which this Annex applies consists of the following components:

Zentralbaugruppe / Central Processing Units

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CPU 1217C DC/DC/DC	6ES7 217-1AG40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG40-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG40-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG40-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG40-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG40-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE40-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE40-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE40-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE40-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE40-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG31-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG31-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG31-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG31-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG31-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE31-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE31-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE31-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE31-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE31-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE31-0XB0

Digitaleingabebaugruppe / Digital Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1221 DI 8xDC	6ES7 221-1BF32-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH32-0XB0

Digitalausgabebaugruppe / Digital Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1222 DO 8xDC	6ES7 222-1BF32-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF32-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH32-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF30-0XB0

Digitalein-/ausgabebaugruppe / Digital Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH32-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH32-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL32-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL32-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH32-0XB0

Analogeingabebaugruppe / Analog Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1231 AI 4x13 bit	6ES7 231-4HD32-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF32-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD32-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD32-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF32-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF32-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND32-0XB0
SM 1278 4xIO-Link Master	6ES7 278-4BD32-0XB0
SM 1238 Energy Meter 480VAC	6ES7 238-5XA32-0XB0

Analogausgabebaugruppe / Analog Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1232 AQ 2x14 bit	6ES7 232-4HB32-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD32-0XB0

Analogein-/ausgabebaugruppe / Analog Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE32-0XB0

Kommunikationsbaugruppe / Communication Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CM 1241 RS232	6ES7 241-1AH32-0XB0
CM 1241 RS-422/485	6ES7 241-1CH32-0XB0

Erweiterungsmodule (Signalmodule) / Extension Modules (Signal Boards)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SB 1223 DI 2xDC / DO 2xDC	6ES7 223-0BD30-0XB0
SB 1232 AQ 1x12 bit	6ES7 232-4HA30-0XB0
SB 1221 DI 4x24V, HS	6ES7 221-3BD30-0XB0
SB 1222 DQ 4x24V, HS	6ES7 222-1BD30-0XB0
SB 1223 DI 2x24V / DQ 2x24V, HS	6ES7 223-3BD30-0XB0
SB 1221 DI 4x5V, HS	6ES7 221-3AD30-0XB0
SB 1222 DQ 4x5V, HS	6ES7 222-1AD30-0XB0
SB 1223 DI 2x5V / DQ 2x5V, HS	6ES7 223-3AD30-0XB0
SB 1231 AI 1x12 bit	6ES7 231-4HA30-0XB0
SB 1231 TC 1x16 bit	6ES7 231-5QA30-0XB0
SB 1231 RTD 1x16 bit	6ES7 231-5PA30-0XB0

Erweiterungsmodul (Batteriemodul) / Extension Module (Battery Board)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
BB 1297 Battery	6ES7 297-0AX30-0XA0

Erweiterungsmodul (Kommunikationsmodul) / Extension Modul (Communication Board)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CB 1241 RS-485	6ES7 241-1CH30-1XB0

Zubehörteile / Accessories

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
Potentiometer Module (<i>Potentiometer Modul</i>)	6ES7 274-1XA30-0XA0
8 Position Input Simulator (<i>Eingangsimulator, 8 Positionen</i>)	6ES7 274-1XF30-0XA0
14 Position Input Simulator (<i>Eingangsimulator, 14 Positionen</i>)	6ES7 274-1XH30-0XA0
Input Simulator, CPU 1217C (<i>Eingangsimulator</i>)	6ES7 274-1XK30-0XA0
I/O Expansion Cable, 2 meters (<i>E/A Verlängerungskabel, 2 Meter</i>)	6ES7 290-6AA30-0XA0

Endblock-Ersatzbastelsätze / Terminal Block Spare Kits

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
7 Pin, Tin-Plated	6ES7 292-1AG30-0XA0
7 Pin, Tin-Plated, Keyed Right	6ES7 292-1AG40-0XA0
7 Pin, Tin-Plated, Keyed Left	6ES7 292-1AG40-0XA1
8 Pin, Tin-Plated	6ES7 292-1AH30-0XA0
8 Pin, Tin-Plated, Keyed	6ES7 292-1AH40-0XA0
10 Pin, Tin-Plated	6ES7 292-1AK30-0XA0
11 Pin, Tin-Plated	6ES7 292-1AL30-0XA0
11 Pin, Tin-Plated, Keyed	6ES7 292-1AL40-0XA0
12 Pin, Tin-Plated	6ES7 292-1AM30-0XA0
12 Pin, Tin-Plated, Keyed	6ES7 292-1AM40-0XA0
14 Pin, Tin-Plated	6ES7 292-1AP30-0XA0
14 Pin, Tin-Plated, Keyed	6ES7 292-1AP40-0XA0
16 Pin, Tin-Plated	6ES7 292-1AR30-0XA0
18 Pin, Tin-Plated	6ES7 292-1AT30-0XA0
20 Pin, Tin-Plated	6ES7 292-1AV30-0XA0
20 Pin, Tin-Plated, Keyed	6ES7 292-1AV40-0XA0
3 Pin, Gold-Plated	6ES7 292-1BC30-0XA0
SB, CB and BB, 6 Pin	6ES7 292-1BF30-0XA0
6 Pin, Gold-Plated	6ES7 292-1BF30-0XB0
7 Pin, Gold-Plated	6ES7 292-1BG30-0XA0
11 Pin, Gold-Plated	6ES7 292-1BL30-0XA0
7 Pin, Tin-Plated, Keyed Middle	6ES7 292-1AG40-0XA2

Anhang NSR *Annex LVD* zur EU-Konformitätserklärung *for EU DECLARATION of CONFORMITY*

Nr. / No. **700 / S7-1200 general / J3 / 06.2017**

Produktbezeichnung: **Speicherprogrammierbare Steuerung SIMATIC S7-1200**

Product identification: **Programmable Controller SIMATIC S7-1200**

Die nachfolgend angeführten Produkte des oben beschriebenen Gegenstandes der Erklärung erfüllen die einschlägige Harmonisierungsrechtsvorschrift der Union:

The below-mentioned products of the object of the declaration described above are in conformity with the relevant Union harmonisation legislation:

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

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*

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 designated product with the provisions of the applied Directive(s) is proved by full compliance with the following standards / regulations:

Harmonisierte Europäische Normen:

Harmonized European Standards:

Referenznummer <i>Reference number</i>	Ausgabedatum <i>Edition</i>
EN 61131-2	2007

Das Produkt „Speicherprogrammierbare Steuerung SIMATIC S7-1200“, für welche dieser Anhang gilt, besteht aus den folgenden Komponenten:

The product "Programmable Controller SIMATIC S7-1200" to which this Annex applies consists of the following components:

Zentralbaugruppe / Central Processing Units

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CPU 1215C AC/DC/RLY	6ES7 215-1BG40-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG40-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG40-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG40-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE40-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE40-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE40-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG31-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG31-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG31-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE31-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE31-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE31-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE31-0XB0

Digitalausgabebaugruppe / Digital Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1222 DO 8xRLY	6ES7 222-1HF32-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF30-0XB0

Digitalein-/ausgabebaugruppe / Digital Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH32-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL32-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH32-0XB0

Analogeingabebaugruppe / Analog Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1238 Energy Meter 480VAC	6ES7 238-5XA32-0XB0

Endblock-Ersatzbastelsätze / Terminal Block Spare Kits

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
7 Pin, Tin-Plated	6ES7 292-1AG30-0XA0
7 Pin, Tin-Plated, Keyed Right	6ES7 292-1AG40-0XA0
7 Pin, Tin-Plated, Keyed Left	6ES7 292-1AG40-0XA1
8 Pin, Tin-Plated	6ES7 292-1AH30-0XA0
8 Pin, Tin-Plated, Keyed	6ES7 292-1AH40-0XA0
10 Pin, Tin-Plated	6ES7 292-1AK30-0XA0
11 Pin, Tin-Plated	6ES7 292-1AL30-0XA0
11 Pin, Tin-Plated, Keyed	6ES7 292-1AL40-0XA0
12 Pin, Tin-Plated	6ES7 292-1AM30-0XA0
12 Pin, Tin-Plated, Keyed	6ES7 292-1AM40-0XA0
14 Pin, Tin-Plated	6ES7 292-1AP30-0XA0
14 Pin, Tin-Plated, Keyed	6ES7 292-1AP40-0XA0
16 Pin, Tin-Plated	6ES7 292-1AR30-0XA0
18 Pin, Tin-Plated	6ES7 292-1AT30-0XA0
20 Pin, Tin-Plated	6ES7 292-1AV30-0XA0
20 Pin, Tin-Plated, Keyed	6ES7 292-1AV40-0XA0
3 Pin, Gold-Plated	6ES7 292-1BC30-0XA0
SB, CB and BB, 6 Pin	6ES7 292-1BF30-0XA0
6 Pin, Gold-Plated	6ES7 292-1BF30-0XB0
7 Pin, Gold-Plated	6ES7 292-1BG30-0XA0
11 Pin, Gold-Plated	6ES7 292-1BL30-0XA0
7 Pin, Tin-Plated, Keyed Middle	6ES7 292-1AG40-0XA2

Anhang ATEX / Kategorie 3
Annex ATEX / Category 3
zur EU-Konformitätserklärung
for EU DECLARATION of CONFORMITY

Nr. / No. **700 / S7-1200 general / J3 / 06.2017**

Produktbezeichnung: **Speicherprogrammierbare Steuerung SIMATIC S7-1200**

Product identification: **Programmable Controller SIMATIC S7-1200**

Die nachfolgend angeführten Produkte des oben beschriebenen Gegenstandes der Erklärung erfüllen die einschlägige Harmonisierungsrechtsvorschrift der Union:

The below-mentioned products of the object of the declaration described above are in conformity with the relevant Union harmonisation legislation:

2014/34/EU Richtlinie des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen; Amtsblatt der EU L96, 29/03/2014, S. 309–356

2014/34/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 equipment and protective systems intended for use in potentially explosive atmospheres; Official Journal of the EU L96, 29/03/2014, p. 309–356*

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 designated product with the provisions of the applied Directive(s) is proved by full compliance with the following standards / regulations:

Harmonisierte Europäische Normen:

Harmonized European Standards:

Referenznummer <i>Reference number</i>	Ausgabedatum <i>Edition</i>
EN 60079-0	2012 + A11:2013
EN 60079-15	2010

Anerkannte Prüfstelle – Zertifikat Nr.: / Test Laboratory – Certificate No.

KEMA 04ATEX1130 X

II 3 G Ex nA IIC T3 Gc

DEKRA Certification B.V.
Meander 1051 6825 MJ
Arnhem Postfach 5185
6802 ED Arnhem
Niederlande / Netherlands

Das Produkt „Speicherprogrammierbare Steuerung SIMATIC S7-1200“, für welche dieser Anhang gilt, besteht aus den folgenden Komponenten:

The product "Programmable Controller SIMATIC S7-1200" to which this Annex applies consists of the following components:

Zentralbaugruppe / Central Processing Units

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CPU 1217C DC/DC/DC	6ES7 217-1AG40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG40-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG40-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE40-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG31-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG31-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE31-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE31-0XB0

Digitaleingabebaugruppe / Digital Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1221 DI 8xDC	6ES7 221-1BF32-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH32-0XB0

Digitalausgabebaugruppe / Digital Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1222 DO 8xDC	6ES7 222-1BF32-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH32-0XB0

Digitalein-/ausgabebaugruppe / Digital Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH32-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL32-0XB0

Analogeingabebaugruppe / Analog Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1231 AI 4x13 bit	6ES7 231-4HD32-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF32-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD32-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD32-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF32-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF32-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND32-0XB0
SM 1278 4xIO-Link Master	6ES7 278-4BD32-0XB0

Analogausgabebaugruppe / Analog Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1232 AQ 2x14 bit	6ES7 232-4HB32-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD32-0XB0

Analogein-/ausgabebaugruppe / Analog Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE32-0XB0

Kommunikationsbaugruppe / Communication Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CM 1241 RS232	6ES7 241-1AH32-0XB0
CM 1241 RS-422/485	6ES7 241-1CH32-0XB0

Erweiterungsmodule (Signalmodule) / Extension Modules (Signal Boards)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SB 1223 DI 2xDC / DO 2xDC	6ES7 223-0BD30-0XB0
SB 1232 AQ 1x12 bit	6ES7 232-4HA30-0XB0
SB 1221 DI 4x24V, HS	6ES7 221-3BD30-0XB0
SB 1222 DQ 4x24V, HS	6ES7 222-1BD30-0XB0
SB 1223 DI 2x24V / DQ 2x24V, HS	6ES7 223-3BD30-0XB0
SB 1221 DI 4x5V, HS	6ES7 221-3AD30-0XB0
SB 1222 DQ 4x5V, HS	6ES7 222-1AD30-0XB0
SB 1223 DI 2x5V / DQ 2x5V, HS	6ES7 223-3AD30-0XB0
SB 1231 AI 1x12 bit	6ES7 231-4HA30-0XB0
SB 1231 TC 1x16 bit	6ES7 231-5QA30-0XB0
SB 1231 RTD 1x16 bit	6ES7 231-5PA30-0XB0

Erweiterungsmodul (Batteriemodul) / Extension Module (Battery Boards)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
BB 1297 Battery	6ES7 297-0AX30-0XA0

Erweiterungsmodul (Kommunikationsmodul) / Extension Module (Communication Board)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CB 1241 RS-485	6ES7 241-1CH30-1XB0

Zubehörteile / Accessories

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
Potentiometer Module (<i>Potentiometer Modul</i>)	6ES7 274-1XA30-0XA0
I/O Expansion Cable, 2 meters (<i>E/A Verlängerungskabel, 2 Meter</i>)	6ES7 290-6AA30-0XA0

Anhang RoHS *Annex RoHS* zur EU-Konformitätserklärung *for EU DECLARATION of CONFORMITY*

Nr. / No. **700 / S7-1200 general / J3 / 06.2017**

Produktbezeichnung: **Speicherprogrammierbare Steuerung SIMATIC S7-1200**

Product identification: **Programmable Controller SIMATIC S7-1200**

Die nachfolgend angeführten Komponenten des oben beschriebenen Gegenstandes der Erklärung erfüllen die einschlägige Harmonisierungsrechtsvorschrift der Union:

The below-mentioned components of the object of the declaration described above are in conformity with the relevant Union harmonisation legislation:

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

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*

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 designated product with the provisions of the applied Directive(s) is proved by full compliance with the following standards / regulations:

Harmonisierte Europäische Normen:

Harmonized European Standards:

Referenznummer <i>Reference number</i>	Ausgabedatum <i>Edition</i>
EN 50581	2012

Das Produkt „Speicherprogrammierbare Steuerung SIMATIC S7-1200“, für welche dieser Anhang gilt, besteht aus den folgenden Komponenten:

The product "Programmable Controller SIMATIC S7-1200" to which this Annex applies consists of the following components:

Zentralbaugruppe / Central Processing Units

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CPU 1217C DC/DC/DC	6ES7 217-1AG40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG40-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG40-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG40-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG40-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG40-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE40-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE40-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE40-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE40-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE40-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG31-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG31-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG31-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG31-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG31-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE31-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE31-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE31-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE31-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE31-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE31-0XB0

Digitaleingabebaugruppe / Digital Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1221 DI 8xDC	6ES7 221-1BF32-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH32-0XB0

Digitalausgabebaugruppe / Digital Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1222 DO 8xDC	6ES7 222-1BF32-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF32-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH32-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF30-0XB0

Digitalein-/ausgabebaugruppe / Digital Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH32-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH32-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL32-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL32-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH32-0XB0

Analogeingabebaugruppe / Analog Input Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1231 AI 4x13 bit	6ES7 231-4HD32-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF32-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD32-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD32-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF32-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF32-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND32-0XB0
SM 1278 4xIO-Link Master	6ES7 278-4BD32-0XB0
SM 1238 Energy Meter 480VAC	6ES7 238-5XA32-0XB0

Analogausgabebaugruppe / Analog Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1232 AQ 2x14 bit	6ES7 232-4HB32-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD32-0XB0

Analogein-/ausgabebaugruppe / Analog Input/Output Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE32-0XB0

Kommunikationsbaugruppe / Communication Modules

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CM 1241 RS232	6ES7 241-1AH32-0XB0
CM 1241 RS-422/485	6ES7 241-1CH32-0XB0

Erweiterungsmodule (Signalmodule) / Extension Modules (Signal Boards)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
SB 1223 DI 2xDC / DO 2xDC	6ES7 223-0BD30-0XB0
SB 1232 AQ 1x12 bit	6ES7 232-4HA30-0XB0
SB 1221 DI 4x24V, HS	6ES7 221-3BD30-0XB0
SB 1222 DQ 4x24V, HS	6ES7 222-1BD30-0XB0
SB 1223 DI 2x24V / DQ 2x24V, HS	6ES7 223-3BD30-0XB0
SB 1221 DI 4x5V, HS	6ES7 221-3AD30-0XB0
SB 1222 DQ 4x5V, HS	6ES7 222-1AD30-0XB0
SB 1223 DI 2x5V / DQ 2x5V, HS	6ES7 223-3AD30-0XB0
SB 1231 AI 1x12 bit	6ES7 231-4HA30-0XB0
SB 1231 TC 1x16 bit	6ES7 231-5QA30-0XB0
SB 1231 RTD 1x16 bit	6ES7 231-5PA30-0XB0

Erweiterungsmodul (Batteriemodul) / Extension Module (Battery Board)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
BB 1297 Battery	6ES7 297-0AX30-0XA0

Erweiterungsmodul (Kommunikationsmodul) / Extension Modul (Communication Board)

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
CB 1241 RS-485	6ES7 241-1CH30-1XB0

Zubehörteile / Accessories

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
Potentiometer Module (<i>Potentiometer Modul</i>)	6ES7 274-1XA30-0XA0
8 Position Input Simulator (<i>Eingangsimulator, 8 Positionen</i>)	6ES7 274-1XF30-0XA0
14 Position Input Simulator (<i>Eingangsimulator, 14 Positionen</i>)	6ES7 274-1XH30-0XA0
Input Simulator, CPU 1217C (<i>Eingangsimulator</i>)	6ES7 274-1XK30-0XA0
I/O Expansion Cable, 2 meters (<i>E/A Verlängerungskabel, 2 Meter</i>)	6ES7 290-6AA30-0XA0

Endblock-Ersatzbastelsätze / Terminal Block Spare Kits

Product Description, SIMATIC S7-1200 <i>Produktbeschreibung SIMATIC S7-1200</i>	Siemens Model Number <i>Siemens Modellnummer</i>
7 Pin, Tin-Plated	6ES7 292-1AG30-0XA0
7 Pin, Tin-Plated, Keyed Right	6ES7 292-1AG40-0XA0
7 Pin, Tin-Plated, Keyed Left	6ES7 292-1AG40-0XA1
8 Pin, Tin-Plated	6ES7 292-1AH30-0XA0
8 Pin, Tin-Plated, Keyed	6ES7 292-1AH40-0XA0
10 Pin, Tin-Plated	6ES7 292-1AK30-0XA0
11 Pin, Tin-Plated	6ES7 292-1AL30-0XA0
11 Pin, Tin-Plated, Keyed	6ES7 292-1AL40-0XA0
12 Pin, Tin-Plated	6ES7 292-1AM30-0XA0
12 Pin, Tin-Plated, Keyed	6ES7 292-1AM40-0XA0
14 Pin, Tin-Plated	6ES7 292-1AP30-0XA0
14 Pin, Tin-Plated, Keyed	6ES7 292-1AP40-0XA0
16 Pin, Tin-Plated	6ES7 292-1AR30-0XA0
18 Pin, Tin-Plated	6ES7 292-1AT30-0XA0
20 Pin, Tin-Plated	6ES7 292-1AV30-0XA0
20 Pin, Tin-Plated, Keyed	6ES7 292-1AV40-0XA0
3 Pin, Gold-Plated	6ES7 292-1BC30-0XA0
SB, CB and BB, 6 Pin	6ES7 292-1BF30-0XA0
6 Pin, Gold-Plated	6ES7 292-1BF30-0XB0
7 Pin, Gold-Plated	6ES7 292-1BG30-0XA0
11 Pin, Gold-Plated	6ES7 292-1BL30-0XA0
7 Pin, Tin-Plated, Keyed Middle	6ES7 292-1AG40-0XA2



CERTIFICATE NUMBER
15-GD1413994-PDA

DATE
06 Oct 2015

ABS TECHNICAL OFFICE
Gdynia 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 Control/Monitoring Unit**

Model: **SIMATIC S7-1200**

This Product Design Assessment (PDA) Certificate 15-GD1413994-PDA, dated 06/Oct/2015 remains valid until 05/Oct/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

Arkadiusz Pytkowski
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

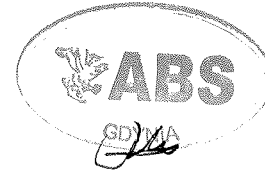
Germany

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 Control/Monitoring Unit**Model:** SIMATIC S7-1200**Intended Service:**

Automation Systems (Monitoring and Control Functions) on AMS, ACC, ACCU, ABCU classed vessels.

Description:

Components:

Central Processing Units: 6ES7 211-, CPU 1211C; 6ES7 212-, CPU 1212C; 6ES7 214-, CPU 1214C; 6ES7 215-, CPU 1215C, 6ES7 217-, CPU 1217C

Signal Modules: 6ES7 221-, SM 1221; 6ES7 222-, SM 1222; 6ES7 223-, SM 1223; 6ES7 231-, SM 1231; 6ES7 232-, SM 1232; 6ES7 234-, SM 1234

Communication Modul: 6ES7 241-, CM/CB 1241

Signal Boards: 6ES7 221-, SB 1221; 6ES7 222-, SB 1222; 6ES7 223-, SB 1223; 6ES7 231, SB 1231; 6ES7 232-, SB 1232

Power Supply Module: 6EP1 332-, PM 1207

Accessories: 6ES7 297-, Battery Board; 6ES7 954-, Memory Cards

Rating:

Supply voltage: 24V DC or 120/230V AC; Power supply 332: 120/230V AC, 2.5A; Degree of Protection: IP20

Service Restriction:

- 1.) Unit Certification is not required for Siemens AG, DF FA AS as the original supplier. However, unit certification in accordance with 4-9-3/Table 2 is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1.
- 2.) Surge Immunity: External protective circuits required for DC systems. See the current System Manual (A5E02486680) for recommendations.
- 3.) Components without filter only to be used in general power distribution zones, but not in bridge and deck zones.
- 4.) The System fulfills the EMC requirements with appropriate filter for installation on the Bridge and Deck Zone. A filter is to be fitted in the power supply lines having the following ratings: (I=3A, C=2x0.47µF, C=2x4700pF, L=4x4.7mH, manufactured Epcos, type: B84113-C-B30 or equivalent)
- 5.) Installation of the units, as per manufacturer's instructions.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Each particular application/ configuration and the user operating software is to be specifically approved in conjunction with the relevant system in which the PC 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. Extension of the PDA Certificate No. 10-HG622540-1-PDA.

Notes/Drawing/Documentation:

Drawing No. 02, Siemens Specification and Test Report No.: SIMATIC Type Test -2014-02 dated 17.08.20

Drawing No. 10, System Manual No.: A5E02486680-AJ dated 06/2015

Terms of Validity:

This Product Design Assessment (PDA) Certificate 15-GD1413994-PDA, dated 06/Oct/2015 remains valid until 05/Oct/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

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Web: www.siemens.de



Tier: 5 - Unit Certification Required

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.

STANDARDS

ABS Rules:

The Rules applicable to this assessment are:

- ABS Rules for Building and Classing Steel Vessels (Up-dated July 2015): 1-1-4/7.7, 1-1-A 3 & 4, 4-8-3/1.7/1.11.1/1.17, 4-9-3/11, 4-9-8/7 & 13
- ABS Rules for Building and Classing Offshore Support Vessels (Up-dated July 2015): 1-1-4/7.7, 1-1-A 3 and 4, 4-8-3/1.7/1.11.1/1.17, 4-9-3/11, 4-9-8/7 & 13
- ABS Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length (Up-dated July 2015): 1-1-4/7.7, 1-1-A 3 and 4, 4-6-1/11, 4-6-1/15, 4-6-1/17, 4-7-2/9, 4-7-2/15, 4-7-2/17
- ABS Rules for Building and Classing Mobile Offshore Drilling Units (Up-dated July 2015): 1-1-4/9.7, 1-1-A 2 and 3, 4-3-1/11, 4-3-1/15, 4-3-1/17, 4-3-4/5
- ABS Rules for Building and Classing Facilities on Offshore Installations (Up-dated July 2015): 1-1-4/9.7, 1-1-A 2 and 3, 3-6/5, 3-7/3, 3-7/15, 4-6/1, 4-7
- ABS Rules for Building and Classing Steel Barges (Up-dated July 2015): 1-1-4/7.7, 1-1-A 3 & 4, 4-1-1/1, 4-1-3/1, 4-1-3/5

National:
NA

International:
NA

Government:
NA

EUMED:
NA

OTHERS:
NA

Das UL-Zertifikat „**Programmable Controllers**“ hat die UL-File-Nummer **E75310**. Bitte mit folgendem Link das aktuelle Zertifikat öffnen:

[NRAQ.E75310](#)

*You will find the UL certificate “**Programmable Controllers**” under the UL-file-number **E75310**. For the latest version of the certificate please open following link:*

[NRAQ.E75310](#)

Die folgende Tabelle enthält eine Übersicht der Produktgruppen, die in diesem Zertifikat aufgelistet sind:

The table below contains an overview of the product groups that are listed in this certificate:

UL USA	Programmable Controllers	SIMATIC S7-200 SIMATIC S7-1200 SIMATIC S7-300 SIMATIC 505 LOGO!	NRAQ.E75310
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Allgemeine Angaben / General information

(Angabe aus Siemens-Prüfbescheinigung)

Welche der Zulassungen für Ihr Produkt erteilt wurde, erkennen Sie an den Kennzeichnungen auf dem Typenschild oder Verpackung (ausgenommen Zubehör).

You will recognize the approval assigned to your product from the mark on the identification label or packing (excluding accessories).

UL Listed-Prüfzeichen



Das UL-Listed-Prüfzeichen ist eines der am häufigsten anzutreffenden UL-Prüfzeichen. Wenn ein Produkt dieses Prüfzeichen trägt bedeutet dies, dass repräsentative Muster des Produkts von UL getestet wurden und die Sicherheitsanforderungen von UL erfüllen.

The UL Listing Mark is one of the most common UL Marks. If a product carries this mark, it means UL found that representative product samples met UL's safety requirements.

Quick Guide auf der UL-Internetseite

Quick Guide on the UL Internet page

Über „Quick Guide“ ist durch Eingabe der UL-File-Nummer **E75310** ein direkter Zugriff auf die UL-Liste möglich.

*Go to the “Quick Guide“ page and enter the UL file number **E75310** to obtain direct access to the UL list:*

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/gfilenbr.html>



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UL File Number (ex. E12345):	<input type="text" value="E75310"/>
	<input type="button" value="SEARCH"/> <input type="button" value="CLEAR"/>
<p>The UL File Number is an alphanumeric designation assigned to a company upon successful completion of a product evaluation or company certification.</p> <p>The UL File Number field is also used to search for:</p> <ul style="list-style-type: none">- Design Number- System Number- Construction Number- Assembly Number <p>With the introduction of the Enhanced UL Certification Mark in May 2013, the UL File Number is often being used as the unique identifier for Certified products and can be entered in the File Number search field to obtain additional certification information.</p>	

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Das Suchergebnis zeigt die vorhandenen Versionen an:

The search result will indicate the available versions:



Search results

You may choose to Refine Your Search.		
Company Name	Category Name	Link to File
SIEMENS	Programmable Controllers	NRAQ.E75310
SIEMENS	Programmable Controllers Certified for Canada	NRAQ7.E75310

Model number information is not published for all product categories. If you require information about a specific model number, please contact [Customer Service](#) for further assistance.

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Weitere UL-Listings:

Further UL Listings:

UL File Number		Link
E222109	Programmable Controllers for use in Hazardous Locations	
ID: 18967347	USA (Panels, S7-300,1500, und DP, ET200 M/MP/ S/ SP , IPC, IFP)	NRAQ.E222109
ID: 18968776	Certified for Canada (Panels, S7-300,1500, und DP, ET200 M/MP/ S/ SP , IPC, IFP)	NRAQ7.E222109
ID: 76776802	Zone Classified Hazardous Locations (C7,S7-300,ET200S)	NWGD.E222109
E257659	Programmable Controllers	
ID: 19281023	USA (Mobile Panels 170 / 177/ 277)	NRAQ.E257659
ID: 23344671	Certified for Canada (Mobile Panels 170 / 177/ 277)	NRAQ7.E257659
E216641	Information Technology Equipment Including Electrical Business Equipment	
ID: 24023788	USA (Mobic T8, Mobile Panels 277 IWLAN)	NWGQ.E216641
ID: 19137864	Certified for Canada (Mobic T8, Mobile Panels 277 IWLAN)	NWGQ7.E216641
E116536	Programmable Controllers	
ID: 18966540	USA (S5, S7-300, S7-1500, S7-1200, ET200, IFP, Multi Panels, OP/TP, ITC, LOGO!, SMART CONNECT, Thin Client)	NRAQ.E116536
	Components USA	NRAQ2.E116536
ID: 18966550	Programmable Controllers Certified for Canada (S5, S7-300, S7-1500, S7-1200, ET200, ET200M , IFP, Multi Panels, OP/TP, ITC, LOGO!, SMART CONNECT, Thin Client)	NRAQ7.E116536
	Certified for Canada - Components	NRAQ8.E116536
E120869	Programmable Controllers	
ID: 19248974	USA (S7-200, S5-115, ET200, Panels, SIPLUS)	NRAQ.E120869
	US-Components	NRAQ2.E120869
ID: 19258832	Certified for Canada (S7-200, S5-115, ET200, Panels, SIPLUS)	NRAQ7.E120869

	Canada- Components	NRAQ8.E120869
E115352	Information Technology Equipment Including Electrical Business Equipment	
ID: 17355663	USA (BOX PC, SIMATIC Microsoft Box, SIMATIC IPC, Rack PC , Operator Panels)	NWGQ.E115352
	US-Components	NWGQ2.E115352
ID: 26128185	Certified for Canada (BOX PC, SIMATIC Microsoft Box, SIMATIC IPC, Rack PC, Operator Panels)	NWGQ7.E115352
	Certified for Canada Components	NWGQ8.E115352
E223122	Programmable Controllers for Use in Hazardous Locations	
ID: 19269492	USA (S7-400, S7-300. M7-300, S7-200)	NRAG.E223122
ID: 19269170	Certified for Canada (S7-400, S7-300, M7-300, S7-200)	NRAG7.E223122
	Programmable Controllers for Use in Zone Classified Hazardous Locations	
	USA	NWGD.E223122
	Certified for Canada	NWGD7.E223122
E217227	Programmable Controllers	
ID: 18938211	USA (S7-300, CPU)	NRAQ.E217227
ID: 18793157	Certified for Canada(S7-300, CPU)	NRAQ7.E217227
E239126	Programmable Safety Controllers	
ID: 19258721	USA (F-CPU's, ET200S,S7-300,)	NRGF.E239126
E248953	Programmable Controllers	
ID: 27839993	USA (S7-400, S5-100, S5-115U, S5-135, S5-150U , S5-155H, M7-400,)	NRAQ.E248953
ID: 27840279	Certified for Canada (S7-400, S5-100, S5-115U, S5-135, S5-150U , S5-155H, M7-400,)	NRAQ7.E248953
E75310	Programmable Controllers	
ID: 16926544	USA (S7-200, S7-1200, S7-300, SIMATIC 505, LOGO!)	NRAQ.E75310
ID: 18968445	Certified for Canada (S7-200, S7-1200, S7-300, SIMATIC 505, LOGO!)	NRAQ7.E75310
E231358	Process Control Equipment for Use in Zone Classified Hazardous Locations	
ID: 19111453	USA (ET200iSP, ET200iS)	QVAJ.E231358
ID: 19110984	Certified for Canada (ET200iSP, ET200iS)	QVAJ7.E231358
	Process Control Equipment for Use in Hazardous Locations	
ID: 19110894	USA (ET200iS)	QUZW.E231358
ID: 19109210	Certified for Canada (ET200iS)	QUZW7.E231358
E85972	Programmable Controllers	
ID: 20710588	USA (ET200S, S7-400, M7-300, ET200X)	NRAQ.E85972
	USA Components	NRAQ2.E85972
ID: 20710008	Certified for Canada (ET200S, S7-400, M7-300, ET200X)	NRAQ7.E85972
	Certified for Canada Components	NRAQ8.E85972
E239877	Programmable Controllers for Use in Hazardous Locations	
ID: 67394749	USA (CPU Modules ,SIPLUS System NET,S7-300PS, S7-300 S7-400, CP 343-1, ET200S, ET200SP)	NRAG.E239877
	Certified for Canada CPU Modules ,SIPLUS System NET,S7-300PS, S7-300S7-400, CP 343-1, ET200S, ET200SP)	NRAG7.E239877

Das UL-Zertifikat „**Programmable Controllers Certified for Canada**“ hat die UL-File-Nummer **E75310**. Bitte mit folgendem Link das aktuelle Zertifikat öffnen:

[NRAQ7.E75310](#)

*You will find the UL certificate “**Programmable Controllers Certified for Canada**” under the UL-file-number **E75310**. For the latest version of the certificate please open following Link:*

[NRAQ7.E75310](#)

Die folgende Tabelle enthält eine Übersicht der Produktgruppen, die in diesem Zertifikat aufgelistet sind:

The table below contains an overview of the product groups that are listed in this certificate:

UL Kanada	Programmable Controllers Certified for Canada	SIMATIC S7-200 SIMATIC S7-1200 SIMATIC S7-300 SIMATIC 505	NRAQ7.E75310
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Allgemeine Angaben / General information

(Angabe aus Siemens Prüfbescheinigung)

Welche der Zulassungen für Ihr Produkt erteilt wurde, erkennen Sie an den Kennzeichnungen auf dem Typenschild oder Verpackung (ausgenommen Zubehör).

You will recognize the approval assigned to your product from the mark on the identification label or packing excluding accessories).

UL Listed-Prüfzeichen



Das UL Listed-Prüfzeichen ist eines der am häufigsten anzutreffenden UL Prüfzeichen. Wenn ein Produkt dieses Prüfzeichen trägt, bedeutet dies, dass repräsentative Muster des Produkts von UL getestet wurden und die Sicherheitsanforderungen von UL erfüllen.

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UL File Number (ex. E12345):

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- Design Number
- System Number
- Construction Number
- Assembly Number

With the introduction of the [Enhanced UL Certification Mark](#) in May 2013, the UL File Number is often being used as the unique identifier for Certified products and can be entered in the File Number search field to obtain additional certification information.

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Search results

You may choose to Refine Your Search.		
Company Name	Category Name	Link to File
SIEMENS	Programmable Controllers	NRAQ.E75310
SIEMENS	Programmable Controllers Certified for Canada	NRAQ7.E75310

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ID: 23344671	Certified for Canada (Mobile Panels 170 / 177/ 277)	NRAQ7.E257659
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E116536	Programmable Controllers	
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	Components USA	NRAQ2.E116536
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	Certified for Canada - Components	NRAQ8.E116536

E120869	Programmable Controllers	
ID: 19248974	USA (S7-200, S5-115, ET200, Panels, SIPLUS)	NRAQ.E120869
	US-Components	NRAQ2.E120869
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ID: 26128185	Certified for Canada (BOX PC, SIMATIC Microsoft Box, SIMATIC IPC, Rack PC, Operator Panels)	NWGQ7.E115352
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ID: 19269170	Certified for Canada (S7-400, S7-300, M7-300, S7-200)	NRAQ7.E223122
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	Certified for Canada	NWGD7.E223122
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ID: 27840279	Certified for Canada (S7-400, S5-100, S5-115U, S5-135, S5-150U , S5-155H, M7-400,)	NRAQ7.E248953
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ID: 19109210	Certified for Canada (ET200iS)	QUZW7.E231358
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	Certified for Canada CPU Modules ,SIPLUS System NET,S7-300PS, S7-300S7-400, CP 343-1, ET200S, ET200SP)	NRAG7.E239877



Marine & Offshore
Division

Certificate number: 23685/B0 BV

File number: AP4182

Product code: 4501H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to
SIEMENS AG - DF FA AS
Amberg - GERMANY

for the type of product
PROGRAMMABLE LOGIC CONTROL UNITS
SIMATIC S7-1200

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.
EC Code: 31B (see item 4.x).

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate is a renewal of certificate N° 23685/A2 BV expiring on 23/02/2016

This certificate will expire on: 23 Feb 2021

For BUREAU VERITAS,

At BV HAMBURG, on 15 Feb 2016,

Sandro Schmidt



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **SIMATIC S7-1200** is a modular programmable logic control and I/O system with dedicated I/O Board for the installation on a DIN rail. The system may consist of following components:

Order no.	Designation	Main characteristic
Central Processing Unit:		
6ES7 211	CPU 1211C AC/DC/Relay CPU 1211C DC/DC/Relay CPU 1211C DC/DC/DC	Power Supply: 230V AC; I/O: 6x DI; 2x AI; 4x Relay Power Supply: 24V DC; I/O: 6x DI; 2x AI; 4x Relay Power Supply: 24V DC; I/O: 6x DI; 2x AI; 4x DO
6ES7 212	CPU 1212C AC/DC/Relay CPU 1212C DC/DC/Relay CPU 1212C DC/DC/DC	Power Supply: 230V AC; I/O: 8x DI; 2x AI; 6x Relay Power Supply: 24V DC; I/O: 8x DI; 2x AI; 6x Relay Power Supply: 24V DC; I/O: 8x DI; 2x AI; 6x DO
6ES7 214	CPU 1214C AC/DC/Relay CPU 1214C DC/DC/Relay CPU 1214C DC/DC/DC	Power Supply: 230V AC; I/O: 14x DI; 2x AI; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI; 10x DO
6ES7 215	CPU 1215C AC/DC/Relay CPU 1215C DC/DC/Relay CPU 1215C DC/DC/DC	Power Supply: 230V AC; I/O: 14x DI; 2x AI/AO; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI/AO; 10x Relay Power Supply: 24V DC; I/O: 14x DI; 2x AI/AO; 10x DO
6ES7 217	CPU 1217C DC/DC/DC	Power Supply: 24V DC; I/O: 10x DI; 4x DI RS422/485; 2x AI/AO; 6xDO; 4x DO RS422/485
Signal module:		
6ES7 221	SM 1221 DI 8x24VDC SM 1221 DI 16x24VDC	I/O: 8x DI I/O: 16x DI
6ES7 222	SM 1222 DQ 8x24VDC SM 1222 DQ 16x24VDC SM 1222 DQ 8xRelay SM 1222 DQ 16xRelay	I/O: 8x DO I/O: 16x DO I/O: 8x Relay I/O: 8x Relay
6ES7 223	SM 1223 DI 8x24VDC, DQ 8x24VDC SM 1223 DI 16x24VDC, DQ 16x24VDC SM 1223 DI 8x24VDC, DQ 8xRelay SM 1223 DI 16x24VDC, DQ 16xRelay	I/O: 8x DI; 8x DO I/O: 16x DI; 16x DO I/O: 8x DI; 8x Relay I/O: 16x DI; 16x Relay
6ES7 231	SM 1231 AI 4x13bit SM 1231 AI 8x13bit	I/O: 4x AI I/O: 8x AI
6ES7 232	SM 1232 AQ 2x14bit SM 1232 AQ 4x14bit	I/O: 2x AO I/O: 4x AO
6ES7 234	SM 1234 AI 4x13bit, AQ 2x14bit	I/O: 4x AI; 2x AO
Signal board:		
6ES7 221	SB 1221 DI 4x5VDC 200 kHz SB 1221 DI 4x24VDC 200 kHz	I/O: 4x DI I/O: 4x DI
6ES7 222	SB 1222 DQ 4x5VDC 200 kHz SB 1222 DQ 4x24VDC 200 kHz	I/O: 4x DO I/O: 4x DO
6ES7 223	SB 1223 DI 2x24VDC, DQ 2x24VDC SB 1223 DI 2x / DQ 2x5VDC 200kHz SB 1223 DI 2x /DQ 2x24VDC 200kHz	I/O: 2x DI; 2x DO I/O: 2x DI; 2x DO I/O: 2x DI; 2x DO
6ES7 231	SB 1231 AI 1x12bit SB 1231 AI 1x16bit Thermocouple SB 1231 AI 1x16bit RTD	I/O: 1x AI I/O: 1x AI I/O: 1x AI
6ES7 232	SB 1232 AQ 1x12bit SB 1232 AQ 1x12bit	I/O: 1x AO I/O: 1x AO
Power supply module and Accessories:		
6EP1 332	PM 1207 power supply	Power Supply: 120/230V AC; Output 24V DC
6ES7 954	MMC Memory Cards	2MB - 2GB
6ES7 297	Battery board	Backup via CR1025 battery
Communication module:		
6ES7 241	CM 1241 RS485 CM 1241 RS232 CM/CB 1241 RS422/485	

Degree of protection: IP20
Firmware version: V1.0; V3.0; V4.0

2. DOCUMENTS AND DRAWINGS:

- System Manual A5E02486680-AJ dated 06/2015.
- Operating instructions C98130-A7569-A1-04-6419 dated June 2009.
- Product Information A5E02808525-01 dated 01/2010

3. TEST REPORTS:

Siemens AG:

- SIMATIC Type Test - 2014-02 dated 17.08.2015;
- 14-E006085-BM-A01 dated 2014/04/03; I IA AS RD ST Type Test - 2012-05 dated 24.05.2013;
- I IA AS RD ST Type Test – 2010-05 dated 25.06.2010

4. APPLICATION/LIMITATION:

- 4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - Bureau Veritas Environmental Category, **EC Code: 31B.**
- 4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone by using a filter on power supply lines of type: B84113-C or equivalent with ratings $C=2x\ 0.47\mu F + 2x\ 4700pF$, $L=4x\ 4.7mH$ and when shielded cables are grounded on both sides.
- 4.5 - The Manufacturer's installation recommendation described in A5E02486680-AJ dated 06/2015 regarding surge protection is to be considered.
- 4.6 - Documents relating to each application are to be submitted to the Society's examination prior fitting on board.
- 4.7 - Only Hardware and Firmware successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer is covered by this certificate.
- 4.8 - Depending on the application, Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category II or III Equipment.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above mentioned products are to be supplied by **SIEMENS AG-DF FA AS** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.3 - **SIEMENS AG-DF FA AS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

SIEMENS AG-DF FA AS
Werner-von-Siemens-Str. 50
92224 Amberg
GERMANY

Siemens Electrical Apparatus Ltd.
No. 99, Tian Yuan Road
Sichuan Province
611730 Chengdu
P. R. China

- 5.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.
- The title and version of each software element included in the installed software system shall be marked on the equipment.

7. OTHERS:

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **SIEMENS AG-DF FA AS - GERMANY**, will accept full responsibility for informing shipbuilders, ship owners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 23685/A2 BV issued on 14 Sep 2015 by the Society.

***** END OF CERTIFICATE *****

TYPE APPROVAL CERTIFICATE**This is to certify:****That the Programmable Electronic System**with type designation(s)
SIMATIC S7-1200

Issued to

**Siemens AG DF FA AS SIMATIC Type Test
Amberg, Bayern, Germany**is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	D
Humidity	B
Vibration	A
EMC	A/B*
Enclosure	Required protection according to DNV Rules shall be provided upon installation on board

***See page 2 for more details**This Certificate is valid until **2018-12-31**.Issued at **Høvik** on **2015-07-03**DNV GL local station: **Augsburg**Approval Engineer: **Nils Jarem**for **DNV GL**

**Odd Magne Nesvåg
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.

Product description

Programmable Logic Controller SIMATIC S7-1200
Including:

Type of equipment	Type designation
CPU – Central Processing Units	
CPU 1211C	6ES7 211-...
CPU 1212C	6ES7 212-...
CPU 1214C	6ES7 214-...
CPU 1215C	6ES7 215-...
SB - Signal Modules	
SM 1221	6ES7 221-...
SM 1222	6ES7 222-...
SM 1223	6ES7 223-...
SM 1231	6ES7 231-...
SM 1232	6ES7 232-...
SM 1234	6ES7 234-...
CM - Communication Modules	
CB/CM 1241	6ES7 241-...
Signal boards	
SB 1221	6ES7 221-...
SB 1222	6ES7 222-...
SB 1223	6ES7 223-...
SB 1231	6ES7 231-...
SB 1232	6ES7 232-...
Power supply module	
PM 1207	6EP1 332-...
Accessories	
Memory Cards	6ES7 954-...
BB1297	6ES7 297-...

Place of manufacture

Siemens Elektronikwerk Amberg, Germany
Siemens Elektronikwerk Chengdu, China

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Product certificate

Each delivery of the application system is to be certified according to Pt.4 Ch.9 Sec.1. The certification test is to be performed at the manufacturer of the application system according to an approved test program before the system is shipped to the yard. After the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Job Id: **262.1-009980-4**
Certificate No: **TAA000000K**

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

24V power supply lines are to be protected by Dehn Blitzductor order No. 918 402 (tested) or equivalent.

The system fulfils the EMC requirements without filter for installation in General Power Distribution zone and with appropriate filter for installation on the Bridge and Deck Zone. Rating: I=3A, C=2x0.47µF, C=2x4700pF, L=4x4.7mH, manufactured by Epcos, type B84113-C-B30 or equivalent.

Type Approval documentation

Siemens Specification for Type Tests and Test Report I IA AS RD ST Type Test – 2010-05, dated 2010-06-25

Siemens Specification and Test report No. : A&D AS RD ST Type Test 2012-05, dated 2013-05-24
Operating Instructions (PS); C98130-A7569-A1-04-6419 dated June 2009

System Manual no.: A5E02486680-06 dated 04/2012

Siemens I IA CE DE EMC Test Report no.: 10-E004448-BM-A01 dated 2010-06-21

Siemens SIMATIC S7-1200 Product Information No. A5E02808525-01 dated 01/2010

DNV Essen Initial Survey Report ESN-10-32360, dated 2010-07-07.

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Cold test carried out for 16h at -25°C.

Dry Heat test carried out for 16h at +70°C.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE

Supplier's declaration of conformity



For compliance levels 1, 2 and 3 in Australia

As required by the following Notices:

- *Radiocommunications Devices (Compliance Labelling) Notice 2003* made under section 182 of the Australian *Radiocommunications Act 1992*;
- *Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2008* made under section 182 of the Australian *Radiocommunications Act 1992*;
- *Radiocommunications (Compliance Labelling – Electromagnetic Radiation) Notice 2003* made under section 182 of the Australian *Radiocommunications Act 1992*; and
- *Telecommunications Labelling (Customer Equipment and Customer Cabling) Notice 2001* made under section 407 of the Australian *Telecommunications Act 1997*

Instructions for completion

- **Do not return this form to the ACMA.** This completed form must be retained by the supplier as part of the documentation required for the compliance records and must be made available for inspection by the ACMA when requested.

Supplier's details (manufacturer, importer or authorised agent)

Company Name (OR INDIVIDUAL)

Siemens Ltd
Industry Sector
Industry Automation Division

ACMA supplier code number

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OR

ACN, ABN, or ARBN

Siemens Ltd., ABN 98 004 347 880

Street Address

885 Mountain Highway
Bayswater VIC 3153

Product details

Product description – brand name, type, model, lot, batch or serial number (if available)

SIMATIC S7-1200 (V13 / 01.14)	
Central Processing Units (CPU)	Siemens Model Number
CPU 1217C DC/DC/DC	6ES7 217-1AG40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG40-0XB0
CPU 1215C DC/DC/DC 200K WM	6ES7 215-1AL40-0XB0
CPU 1215C DC/DC/DC 500K WM	6ES7 215-1AM40-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG40-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG40-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG40-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG40-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE40-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE40-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE40-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE40-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE40-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE40-0XB0

CPU 1215C AC/DC/RLY	6ES7 215-1BG31-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG31-0XB0
CPU 1215C DC/DC/DC 200K	6ES7 215-1AL31-0XB0
CPU 1215C DC/DC/DC 500K	6ES7 215-1AM31-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG31-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG31-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG31-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE31-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE31-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE31-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE31-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE31-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BE30-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AE30-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HE30-0XB0
CPU 1214C DC/DC/RLY with 100K Memory	6AV6 675-5XF00-0AX0
CPU 1212C AC/DC/RLY	6ES7 212-1BD30-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AD30-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HD30-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BD30-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AD30-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HD30-0XB0

Signal Modules (SM)	Siemens Model Number
SM 1278 4xIO-Link Master	6ES7 278-4BD32-0XB0
SM 1221 DI 8xDC	6ES7 221-1BF32-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH32-0XB0
SM 1222 DO 8xDC	6ES7 222-1BF32-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF32-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH32-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH32-0XB0
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH32-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH32-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL32-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL32-0XB0
SM 1232 AQ 2x14 bit	6ES7 232-4HB32-0XB0
SM 1231 AI 4x13 bit	6ES7 231-4HD32-0XB0
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE32-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD32-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF32-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF32-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD32-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD32-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF32-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF32-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND32-0XB0

SM 1221 DI 8xDC	6ES7 221-1BF30-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH30-0XB0
SM 1222 DO 8xDC	6ES7 222-1BF30-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF30-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH30-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH30-0XB0
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH30-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH30-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL30-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL30-0XB0
SM 1232 AQ 2x14 bit	6ES7 232-4HB30-0XB0
SM 1231 AI 4x13 bit	6ES7 231-4HD30-0XB0
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE30-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD30-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF30-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD30-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD30-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH30-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF30-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF30-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF30-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND30-0XB0

Communication Modules (CM)	Siemens Model Number
CM 1241 RS232	6ES7 241-1AH32-0XB0
CM 1241 RS-422/485	6ES7 241-1CH32-0XB0
CM 1241 RS485	6ES7 241-1CH30-0XB0
CM 1241 RS232	6ES7 241-1AH30-0XB0
CM 1241 RS-422/485	6ES7 241-1CH31-0XB0

Signal Boards (SB)	Siemens Model Number
SB 1223 DI 2xDC / DO 2xDC	6ES7 223-0BD30-0XB0
SB 1232 AQ 1x12 bit	6ES7 232-4HA30-0XB0
SB 1221 DI 4x24V, HS	6ES7 221-3BD30-0XB0
SB 1222 DQ 4x24V, HS	6ES7 222-1BD30-0XB0
SB 1223 DI 2x24V / DQ 2x24V, HS	6ES7 223-3BD30-0XB0
SB 1221 DI 4x5V, HS	6ES7 221-3AD30-0XB0
SB 1222 DQ 4x5V, HS	6ES7 222-1AD30-0XB0
SB 1223 DI 2x5V / DQ 2x5V, HS	6ES7 223-3AD30-0XB0
SB 1231 AI 1x12 bit	6ES7 231-4HA30-0XB0
SB 1231 TC 1x16 bit	6ES7 231-5QA30-0XB0
SB 1231 RTD 1x16 bit	6ES7 231- 5PA30-0XB0

Communication Boards (CB)	Siemens Model Number
CB 1241 RS-485	6ES7 241-1CH30-1XB0

Battery Boards (BB)	Siemens Model Number
BB 1297 Battery	6ES7 297-0AX30-0XA0

Accessories	Siemens Model Number
Potentiometer Module	6ES7 274-1XA30-0XA0
8 Position Input Simulator	6ES7 274-1XF30-0XA0
14 Position Input Simulator	6ES7 274-1XH30-0XA0
Input Simulator, CPU 1217C	6ES7 274-1XK30-0XA0
I/O Expansion Cable, 2 meters	6ES7 290-6AA30-0XA0

Compliance

The above mentioned product complies with the requirements of the relevant ACMA Standards made under the *Radiocommunications Act 1992* and the *Telecommunications Act 1997*. These Standards are referenced in notices made under *section 182 of the Radiocommunications Act and 407 of the Telecommunications Act*.

Evidence of compliance is demonstrated by test reports to the following applicable standards.

Applicable standards

Standard title, number and, if applicable, number of the test report

AS/NZS CISPR11:2011

Declaration

I hereby declare that the contents of this form are true and correct, that the product mentioned above complies with the relevant above mentioned standards and all products supplied under this declaration will be identical to the product identified above.

Note: Under section 137.1 of the *Criminal Code Act 1995*, it is an offence to knowingly provide false or misleading information to a Commonwealth entity.

Penalty: 12 months imprisonment

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Supplier's declaration of conformity



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Supplier's details (manufacturer, importer or authorised agent)

Company Name (OR INDIVIDUAL)

Siemens Ltd
Industry Sector
Industry Automation Division

ACMA supplier code number

--

OR

ACN, ABN, or ARBN

Siemens Ltd., ABN 98 004 347 880

Street Address

885 Mountain Highway
Bayswater VIC 3153

Product details

Product description – brand name, type, model, lot, batch or serial number (if available)

SIMATIC S7-1200 (V17 / 07.16)	
Central Processing Units (CPU)	Siemens Model Number
CPU 1212FC DC/DC/DC	6ES7 212-1AF40-0XB0
CPU 1212FC DC/DC/RLY	6ES7 212-1HF40-0XB0
CPU 1214FC DC/DC/DC	6ES7 214-1AF40-0XB0
CPU 1214FC DC/DC/RLY	6ES7 214-1HF40-0XB0
CPU 1215FC DC/DC/DC	6ES7 215-1AF40-0XB0
CPU 1215FC DC/DC/RLY	6ES7 215-1HF40-0XB0
Siemcore918 DCDCDC	6ES7 212-1AE40-0XB0-Z
CPU 1217C DC/DC/DC	6ES7 217-1AG40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG40-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG40-0XB0
CPU 1215C DC/DC/DC 200K WM	6ES7 215-1AL40-0XB0
CPU 1215C DC/DC/DC 500K WM	6ES7 215-1AM40-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG40-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG40-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG40-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG40-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE40-0XB0

CPU 1212C DC/DC/DC	6ES7 212-1AE40-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE40-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE40-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE40-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE40-0XB0
CPU 1215C AC/DC/RLY	6ES7 215-1BG31-0XB0
CPU 1215C DC/DC/DC	6ES7 215-1AG31-0XB0
CPU 1215C DC/DC/DC 200K	6ES7 215-1AL31-0XB0
CPU 1215C DC/DC/DC 500K	6ES7 215-1AM31-0XB0
CPU 1215C DC/DC/RLY	6ES7 215-1HG31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BG31-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AG31-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HG31-0XB0
CPU 1212C AC/DC/RLY	6ES7 212-1BE31-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AE31-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HE31-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BE31-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AE31-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HE31-0XB0
CPU 1214C AC/DC/RLY	6ES7 214-1BE30-0XB0
CPU 1214C DC/DC/DC	6ES7 214-1AE30-0XB0
CPU 1214C DC/DC/RLY	6ES7 214-1HE30-0XB0
CPU 1214C DC/DC/RLY with 100K Memory	6AV6 675-5XF00-0AX0
CPU 1212C AC/DC/RLY	6ES7 212-1BD30-0XB0
CPU 1212C DC/DC/DC	6ES7 212-1AD30-0XB0
CPU 1212C DC/DC/RLY	6ES7 212-1HD30-0XB0
CPU 1211C AC/DC/RLY	6ES7 211-1BD30-0XB0
CPU 1211C DC/DC/DC	6ES7 211-1AD30-0XB0
CPU 1211C DC/DC/RLY	6ES7 211-1HD30-0XB0

Signal Modules (SM)	Siemens Model Number
SM 1238 Energy Meter 480VAC	6ES7 238-5XA32-0XB0
SM 1226 F-DI 16 x 24VDC	6ES7 226-6BA32-0XB0
SM 1226 F-DQ 4 x 24VDC	6ES7 226-6DA32-0XB0
SM 1226 F-DQ 2 x Relay	6ES7 226-6RA32-0XB0
SM 1278 4xIO-Link Master	6ES7 278-4BD32-0XB0
SM 1221 DI 8xDC	6ES7 221-1BF32-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH32-0XB0
SM 1222 DO 8xDC	6ES7 222-1BF32-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF32-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH32-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH32-0XB0
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH32-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH32-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL32-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL32-0XB0
SM 1232 AQ 2x14 bit	6ES7 232-4HB32-0XB0
SM 1231 AI 4x13 bit	6ES7 231-4HD32-0XB0
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE32-0XB0

SM 1232 AQ 4x14 bit	6ES7 232-4HD32-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF32-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH32-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF32-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD32-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD32-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF32-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF32-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND32-0XB0
SM 1221 DI 8xDC	6ES7 221-1BF30-0XB0
SM 1221 DI 16xDC	6ES7 221-1BH30-0XB0
SM 1222 DO 8xDC	6ES7 222-1BF30-0XB0
SM 1222 DO 8xRLY	6ES7 222-1HF30-0XB0
SM 1222 DO 16xDC	6ES7 222-1BH30-0XB0
SM 1222 DO 16xRLY	6ES7 222-1HH30-0XB0
SM 1223 DI 8xDC / DO 8xDC	6ES7 223-1BH30-0XB0
SM 1223 DI 8xDC / DO 8xRLY	6ES7 223-1PH30-0XB0
SM 1223 DI 16xDC / DO 16xDC	6ES7 223-1BL30-0XB0
SM 1223 DI 16xDC / DO 16xRLY	6ES7 223-1PL30-0XB0
SM 1232 AQ 2x14 bit	6ES7 232-4HB30-0XB0
SM 1231 AI 4x13 bit	6ES7 231-4HD30-0XB0
SM 1234 AI 4x13 bit / AQ 2x14 bit	6ES7 234-4HE30-0XB0
SM 1232 AQ 4x14 bit	6ES7 232-4HD30-0XB0
SM 1231 AI 8x13 bit	6ES7 231-4HF30-0XB0
SM 1231 RTD 4x16 bit	6ES7 231-5PD30-0XB0
SM 1231 TC 4 x 16 bit	6ES7 231-5QD30-0XB0
SM 1223 DI 8xAC / DO 8xRLY	6ES7 223-1QH30-0XB0
SM 1231 RTD 8 x 16 bit	6ES7 231-5PF30-0XB0
SM 1231 TC 8 x 16 bit	6ES7 231-5QF30-0XB0
SM 1222 DQ8xRLY (CO)	6ES7 222-1XF30-0XB0
SM 1231 4 x Analog Input x 16 bit (high feature)	6ES7 231-5ND30-0XB0
Communication Modules (CM)	Siemens Model Number
CM 1241 RS232	6ES7 241-1AH32-0XB0
CM 1241 RS-422/485	6ES7 241-1CH32-0XB0
CM 1241 RS485	6ES7 241-1CH30-0XB0
CM 1241 RS232	6ES7 241-1AH30-0XB0
CM 1241 RS-422/485	6ES7 241-1CH31-0XB0
Signal Boards (SB)	Siemens Model Number
SB 1223 DI 2xDC / DO 2xDC	6ES7 223-0BD30-0XB0
SB 1232 AQ 1x12 bit	6ES7 232-4HA30-0XB0
SB 1221 DI 4x24V, HS	6ES7 221-3BD30-0XB0
SB 1222 DQ 4x24V, HS	6ES7 222-1BD30-0XB0
SB 1223 DI 2x24V / DQ 2x24V, HS	6ES7 223-3BD30-0XB0
SB 1221 DI 4x5V, HS	6ES7 221-3AD30-0XB0
SB 1222 DQ 4x5V, HS	6ES7 222-1AD30-0XB0
SB 1223 DI 2x5V / DQ 2x5V, HS	6ES7 223-3AD30-0XB0
SB 1231 AI 1x12 bit	6ES7 231-4HA30-0XB0
SB 1231 TC 1x16 bit	6ES7 231-5QA30-0XB0

SB 1231 RTD 1x16 bit	6ES7 231- 5PA30-0XB0
Communication Boards (CB)	
Siemens Model Number	
CB 1241 RS-485	6ES7 241-1CH30-1XB0
Battery Boards (BB)	
Siemens Model Number	
BB 1297 Battery	6ES7 297-0AX30-0XA0
Accessories	
Siemens Model Number	
Potentiometer Module	6ES7 274-1XA30-0XA0
8 Position Input Simulator	6ES7 274-1XF30-0XA0
14 Position Input Simulator	6ES7 274-1XH30-0XA0
Input Simulator, CPU 1217C	6ES7 274-1XK30-0XA0
I/O Expansion Cable, 2 meters	6ES7 290-6AA30-0XA0

Compliance

The above mentioned product complies with the requirements of the relevant ACMA Standards made under the *Radiocommunications Act 1992* and the *Telecommunications Act 1997*. These Standards are referenced in notices made under *section 182 of the Radiocommunications Act and 407 of the Telecommunications Act*.

Evidence of compliance is demonstrated by test reports to the following applicable standards.

Applicable standards

Standard title, number and, if applicable, number of the test report

AS/NZA 61000.6.4
IEC 61000-6-4 (Class A)

Declaration

I hereby declare that the contents of this form are true and correct, that the product mentioned above complies with the relevant above mentioned standards and all products supplied under this declaration will be identical to the product identified above.

Note: Under section 137.1 of the *Criminal Code Act 1995*, it is an offence to knowingly provide false or misleading information to a Commonwealth entity.

Penalty: 12 months imprisonment

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TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **11 587 - 10 HH**

Company **Siemens AG
DF FA AS SIMATIC Type Test
Werner-von-Siemens-Str. 50
92224 Amberg, GERMANY**

Product Description **Programmable Logic Controller SIMATIC S7 - 1200**

Type **6ES7 211, 6ES7 212, 6ES7 214, 6ES7 215, 6ES7 221...223; 6ES7 231, 6ES7 232,
6ES7 234; 6ES7 241, 6EP1 332, 6ES7 954, 6ES7 217**

Environmental Category **C, EMC1***

Technical Data /
Range of Application **Central Processing Units:
6ES7 211: CPU 1211C AC/DC/Relay, DC/DC/DC, DC/DC/Relay
6ES7 212: CPU 1212C AC/DC/Relay, DC/DC/DC, DC/DC/Relay
6ES7 214: CPU 1214C AC/DC/Relay, DC/DC/DC, DC/DC/Relay
6ES7 215: CPU 1215C AC/DC/Relay, DC/DC/DC, DC/DC/Relay
6ES7 217: CPU 1217C DC/DC/DC**

**Signal Modules:
6ES7 221: DI 8/16 x 24 V DC
6ES7 222: DO 8/16 x 24 V DC or 8/16 x Relay
6ES7 223: DI 8/16 x 24 V DC, DO 8/16 x Relay; DI/DO 8//8, 16/16 x 24 V DC
6ES7 231: AI 4/8
6ES7 232: AO 2/4
6ES7 234: AI 4 / AO 2**

**Tests and evidence according Requirement class 3
Firmware Version: V1.0; V3.0; V4.0**

Test Standard **Guidelines for the Performance of Type Approvals VI-7-2 Edition 2012
Regulations for the Use of Computers and Computer Systems**

Documents **Test report : I IA AS RD ST Type Test-2010-05 dated 25-06-2010, -2012-05
dated 24-05-2013; 6ES7 231; S36375-00-00AV dated 07-05-2013; 36371-00-
00BS dated 14-12-2012; SIMATIC Type Test-2014-02 dated 17-08-2015;
Operation Instruction C98130-A7569-A1-04-6419 PM 1207 dated June-2009;
System Manual A5E02486680-02 dated 11/2009 and A5E02486680-AJ dated
06/2015**

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

Valid until **2020-09-15**

Page **1 of 2**

File No. **I.B.07**

Hamburg, 2015-09-16

Type Approval Symbol



DNV GL


Marco Rinkel


Andrea Grün

TYPE APPROVAL CERTIFICATE

DNV·GL

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No. **11 587 - 10 HH**

Signal Boards:

6ES7 221: DI 4 x 5 V DC or 4 x 24 V DC
6ES7 222: DO 4 x 5 V DC or 4 x 24 V DC
6ES7 223: DI/DO 2 x 5 V DC or 2 x 24 V DC
6ES7 231; 1xAI / AI TC / AI RTD
6ES7 232: 1 x Analogue Output

Communication Modules/ Communication Board

6ES7 241: RS232 / 485

Power Supply

6EP1 332: Input 120 / 230 V AC, Output 24 V DC 2.5A

Accessories

6ES7 954: Memory Cards
6ES7 297: Battery Board

Remarks:

The system fulfils EMC 1 with appropriate filter, only. A filter is to be fitted in the power supply lines with the following ratings: I=3A, C=2x0.47microF, C=2x4700pF, L=4x4.7mH, manufactured Epcos, type B84113-C-B30 or equivalent.
Surge Immunity: External Protective circuits required for DC systems. See the current System Manual (A5E02486680) for recommendations.
Installation of the units described in manufacturer's instructions.

Valid until **2020-09-15**

Page **2 of 2**

File No. **I.B.07**

Hamburg, 2015-09-16

Type Approval Symbol



DNV GL


Marco Rinkel


Andrea Grün



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 FA AS SIMATIC Type Test
Werner-von-Siemens-Strasse 50
92224 Amberg
Germany

DESCRIPTION Programmable Logic Controller

TYPES SIMATIC S7 - 1200

Comprising the following modules:

CPUs:

CPU 1211C DC/DC/DC, AC/DC/Relay, DC/DC/Relay	6ES7 211
CPU 1212C DC/DC/DC, AC/DC/Relay, DC/DC/Relay	6ES7 212
CPU 1214C DC/DC/DC, AC/DC/Relay, DC/DC/Relay	6ES7 214
CPU 1215C DC/DC/DC, AC/DC/Relay, DC/DC/Relay	6ES7 215
CPU 1217C DC/DC/DC	6ES7 217

Signal modules:

SM 1221 8/16 x 24 VDC Input	6ES7 221
SM 1222 8/16 x 24 VDC Output	6ES7 222
SM 1222 8/16 x Relay Output	6ES7 222
SM 1223 8/16 x 24 VDC Input/Output	6ES7 223
SM 1223 8/16 x 24 VDC Input / Relay Output	6ES7 223
SM 1231 4/8 x Analog Input	6ES7 231
SM 1232 2/4 x Analog Output	6ES7 232
SM 1234 4 x Analog Input / 2 x Analog Output	6ES7 234

Certificate No. 11/20012 (E3)

Issue Date 29 February 2016

Expiry Date 20 March 2021

Sheet 1 of 3

Thorsten Wolff
Hamburg Technical Support Office

Lloyd's Register EMEA

LR031.1.2013.12

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

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

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TYPES continued

Communication modules:
CM/CB 1241 RS232 / RS485

6ES7 241

Signal boards:

SB 1221 4 x 24 or 5 VDC Input
SB 1222 4 x 24 or 5 VDC Output
SB 1223 2 x 24 or 5 VDC Input / Output
SB 1231 1xAI / AI TC / AI RTD
SB 1232 1 x Analog Output

6ES7 221
6ES7 222
6ES7 223
6ES7 231
6ES7 232

Accessories:

MC Memory cards
BB1297 Battery Board

6ES7 954
6ES7 297

Power supply:
PM 1207

6EP1 332

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 (power distribution zone) as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

STANDARD

Manufacturer's specification

OTHER CONDITIONS

Surge Immunity: External Protective circuits required for DC systems. See the current System Manual (A5E02486680) for recommendations. For application in bridge and deck zone a filter is to be fitted in the power supply lines with the following ratings: I=3A, C=2x0.47µF, C=2x4700pF, L=4x4.7mH, manufactured by Epcos, type B84113-C-B30 or equivalent. Installation of the units, as per manufacturer's instruction.

Certificate No.

11/20012 (E3)

Issue Date

29 February 2016

Expiry Date

20 March 2021

Sheet


2 of 3

Thorsten Wolff
Hamburg Technical Support Office



Lloyd's Register EMEA

LR031.1.2013.12



Lloyd's Register

Thorsten 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

**PLACES OF
PRODUCTION**

Siemens AG
Elektronikwerk Amberg
Werner-von-Siemens-Strasse 50
92224 Amberg
Germany

Siemens AG
Elektronikwerk Chengdu
Siemens Electrical Apparatus Ltd., Sazhou, Chengdu Branch
No.99, TianYuan Road, High Tech Zone West
Chengdu, Sichuan Province, 611730
China


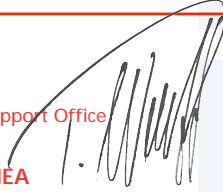
The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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 33202-16 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 11/20012 (E3)
Issue Date 29 February 2016
Expiry Date 20 March 2021
Sheet 3 of 3

Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA
LR031.1.2013.12



Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

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Polski Rejestr Statków

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product type

PROGRAMMABLE LOGIC CONTROLLER

SIMATIC S7-1200

manufactured by

Siemens AG, I IA AS
Werner-von-Siemens-Strasse 50
D-92224 Amberg
Germany

is approved as complying with the requirements of the

PRS Rules and is suitable for use on board of ships classified by PRS or in appliances with PRS certificates.

Certificate No. TE/1909/883241/11

Expiry date 2016-08-26

Issued at

Gdańsk, 2011-08-26



C:030:02

Signature

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

Tel. +(48) 58 346 17 00
Fax +(48) 58 346 03 92

e-mail: mailbox@prs.pl
www: <http://www.prs.pl/>

Continued overleaf

Technical data

Components:

CPU Units:	CPU 1211C, CPU 1212C, CPU 1214C
Signal Modules:	SM 1221, SM 1222, SM 1223, SM 1231, SM 1232, SM 1234
Communication Modules:	CM 1241
Signal Boards:	SB 1221, SB 1222, SB 1223, SB 1232
Power Supply Modules:	PM 1207
Memory Cards:	Simatic MC

Basis of approval

1. SIEMENS Catalog ST 80 / ST PC 2010.
2. Test report No. I IA AS RD ST Type Test - 2010-05.
3. Inspection of the production process and quality control system carried out in June 2011.
4. Quality System Certificate No. CN-00208Q14578R3M issued by IQNet and CQM.

Additional conditions and remarks:

1. For DC systems (I/O signals, DC power systems) an external protection is required (Dehn Blitzductor order No. 918402).
For application in bridge and deck zone a filter is to be fitted in the power supply lines with the following ratings: I=3A, C=2x4700pF, L=4x4.7mH, manufactured by Epcos, type B84113-C-B30 or equivalent.
2. Manufacturing place
Siemens Numerical Control Ltd.
Nanjing, China

Notes

- 1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
- 2 Changes of product design and materials which influence product quality are to be agreed with PRS.
- 3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

In carrying out survey activities Polski Rejestr Statków S.A. (PRS) makes efforts to ensure that they are conducted with conscientiousness and the principles of good practice, with due regard paid to the state-of-the-art technology. However, neither PRS nor its Surveyors shall bear any civil liability for damage, loss or expense which may arise in consequence or as the outcome of conducting these activities, or the result of information or advice given to the customer by PRS, irrespective of whether or not such were the result of neglect, error or lack of proper information. Nevertheless, should the customer prove that such damage, loss or expense was due to negligence on the part of the Society or its Surveyors, PRS will pay compensation to the customer for his loss up to but not exceeding the amount due for services provided, forming the basis of the customer's claim. In no cases will PRS be responsible for indirect losses (loss of prospective profits, loss of contract, inability to undertake activities, etc.) sustained by the customer and associated with the executing of a commission by PRS.



Polski Rejestr Statków

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product type

PROGRAMMABLE LOGIC CONTROLLER

SIMATIC S7-200

manufactured by

Siemens AG, IIA AS
Werner-von-Siemens-Strasse 50
D-92224 Amberg
Germany

is approved as complying with the requirements of the

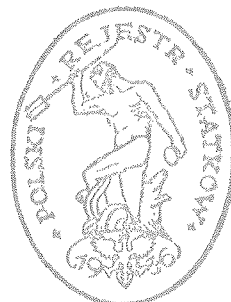
PRS Rules and is suitable for use on board of ships classified by PRS or in appliances with PRS certificates.

Certificate No. TE/1896/883241/11

Expiry date 2016-08-26

Issued at

Gdańsk, 2011-08-26



C/030/02

Signature

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

Tel. +(48) 58 346 17 00
Fax +(48) 58 346 03 92

e-mail: mailbox@prs.pl
www: http://www.prs.pl/

Continued overleaf

Technical data

CPU:	6ESS7-210, -211, -212, -214, -215, -216, -221, -222, -224, -226;
Digital expansion modules:	6ES7-221, -222, -223;
Analogue expansion modules:	6ES7-231, -232, -235;
Memory module:	6ES7-291;
Simulator:	6ES7-274;
HMI TP200:	6ES7-272;
Communication processor:	6GK7-243;
Positioning module:	6ES7-253;
Modem expansion module:	6ES7-241;
Text display:	TD200;
Ethernet module:	CP243.

Basis of approval

1. SIEMENS Catalog CA 01 10/2005.
2. Test report No AUT7-B8.4P-9602, A&D AS E423-0101 and A&D AS RD 423-0301.
3. Inspection of the production process and quality control system carried out in June 2011.
4. Quality System Certificate No. 001323 QM issued by DQS GmbH Deutsche Gesellschaft zur Zertifizierung von Managementsystemen.

Additional conditions and remarks:

The equipment is not allowed to be installed in the bridge and exposed weather deck area.

Notes

- 1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
- 2 Changes of product design and materials which influence product quality are to be agreed with PRS.
- 3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

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