

# BESCHEINIGUNG

## (1) Baumusterprüfung

### (2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen – Richtlinie 94/9/EG

(3) Baumusterprüfbescheinigung Nummer: **KEMA 02ATEX1096 X**      Ausgabe Nummer: **36**

(4) Gerät:      **Programmable Logic Controller Systems SIMATIC ET200M und S7-300, Module Typ 6ES7 ...**

(5) Hersteller:      **Siemens AG**

(6) Anschrift:      **Werner-von-Siemens-Strasse 50, 92224 Amberg, Deutschland**

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Baumusterprüfbescheinigung und in den zugehörigen Unterlagen festgelegt.

(8) DEKRA Certification B.V. bescheinigt für dieses Gerät die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie.

Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht Nr. 216226100 festgelegt worden.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:

**EN 60079-0 : 2006**

**EN 60079-15 : 2005**

(10) Falls das Zeichen "X" hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese Baumusterprüfbescheinigung bezieht sich nur auf Konstruktion, Überprüfung und Tests des spezifizierten Gerätes und nicht auf das Herstellungsverfahren und die Lieferung dieses Gerätes.

(12) Die Kennzeichnung des Gerätes muß die folgenden Angaben enthalten:



**II 3 G**

**Ex nA II T4 or T5 or T6**

Diese Bescheinigung ist erstellt am 5. April 2013 und ist, soweit zutreffend, zu revidieren vor dem Datum der Beendigung der Annahme der Konformitätsvermutung (einer) der oben erwähnten Normen, wie angekündigt im Amtsblatt der Europäischen Union.

DEKRA Certification B.V.

  
C.G. van Es  
Certification Manager

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(13) **ANLAGE**

(14) **Zur Baumusterprüfbescheinigung KEMA 02ATEX1096 X**

Ausgabe Nr. 36

(15) **Beschreibung**

Module Typ 6ES7 ... für Verwendung in SIMATIC ET200M und S7-300 Programmable Logic Controller Systems.

Die Typenbezeichnung, der Umgebungstemperaturbereich und die Temperaturklasse der Module sind **Tabelle 1** zu entnehmen.

**Elektrische Daten**

Die elektrischen Daten von Versorgung, Eingangs- und Ausgangstromkreisen der Module sind **Tabelle 1** zu entnehmen.

**Errichtungshinweise**

Das mit den Geräten mitgelieferte Handbuch ist um eine sachgerechte und sichere Anwendung zu gewährleisten bis ins Detail zu befolgen.

(16) **Prüfbericht**

Nr. 216226100.

(17) **Besondere Bedingungen für die sichere Anwendung**

**Besondere Bedingungen**

1. Die Module sind in ein geeignetes Gehäuse dass eine Schutzart von mindestens IP54 gemäss EN 60529 gewährleistet, unter Berücksichtigung der Umgebungsbedingungen bei der Verwendung, zu errichten.
2. Wenn die Temperatur bei Nennbetrieb an den Einführungsstellen der Kabel, Leitungen oder Rohrleitungen höher als 70 °C oder an den Aderverzweigungsstellen höher als 80 °C ist, so müssen Kabel ausgewählt werden mit Temperaturdaten den tatsächlich gemessenen Temperaturwerten entsprechend.
3. Es müssen Maßnahmen zum Schutz gegen eine Überschreitung der Nennbetriebsspannung durch kurzzeitige Störspannungen um mehr als 40 % getroffen werden.

(18) **Grundlegende Sicherheits- und Gesundheitsanforderungen**

Von den Normen unter (9) abgedeckt.

(19) **Prüfungsunterlagen**

Wie erwähnt in Prüfbericht Nr. 216226100.

(13) **ANLAGE**

(14) **Zur Baumusterprüfbescheinigung KEMA 02ATEX1096 X**

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**Tabelle 1**

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
IM 153-1	6ES7 153-1AA03-a	T4	0...+60°C	—————	24Vdc
IM 153-Fo	6ES7 153-2BB00-a	T4	0...+60°C	—————	24Vdc
Busmodul	6ES7 195-7HA00-a	T5	0...+60°C	—————	5Vdc
Busmodul	6ES7 195-7HB00-a	T5	0...+60°C	—————	5Vdc
Busmodul	6ES7 195-7HC00-a	T5	0...+60°C	—————	5Vdc
BM IM/IM	6ES7 195-7HD10-a	T6	0...+60°C	—————	24Vdc
BM IM/IM	6ES7 195-7HD80-a	T6	-25...+60°C	—————	24Vdc
IM 157 Link	6ES7 157-0AA82-a	T5	-25...+60°C	—————	24Vdc
BM IM 157	6ES7 195-7HE80-a	T6	-25...+60°C	—————	5Vdc
BM DP/PA-Koppler	6ES7 195-7HF80-a	T6	-25...+60°C	—————	5Vdc
Interconnect Module	6ES7 654-7HY00-a	T5	0...+60°C	—————	24Vdc
Y-Coupler Module	6ES7 197-1LB00-a	T5	0...+60°C	—————	24Vdc
Y-IM Module	6ES7 654-0YS00-a	T5	0...+60°C	—————	24Vdc
RS485-Repeater	6ES7 972-0AA01-a	T4	0...+60°C	—————	24Vdc
SM 322 DO 8*DC24V, 0.5A	6ES7 322-8BF00-a	T4	0...+60°C	—————	24Vdc
SM 326 DI 24*DC24V	6ES7 326-1BK00-a	T4	0...+60°C	—————	24Vdc
Terminal (screw type)	6ES7 392-1AM00-a	-	-	—————	24Vdc
Terminal (snap type)	6ES7 392-1BM01-a	-	-	—————	24Vdc
SM 331 AI 2*12 Bit	6ES7 331-7KB02-a	T4	0...+60°C	—————	24Vdc
SM 331 AI 8*12 Bit	6ES7 331-7KF02-a	T4	0...+60°C	—————	24Vdc
SM 332 AO 2*12 Bit	6ES7 332-5HB01-a	T4	0...+60°C	—————	24Vdc
SM 332 AO 4*12 Bit	6ES7 332-5HD01-a	T4	0...+60°C	—————	24Vdc
SM 336 AI 6*13Bit	6ES7 336-1HE00-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V	6ES7 321-1BH02-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V	6ES7 321-1BH50-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 32*DC24V	6ES7 321-1BL00-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V, Alarm	6ES7 321-7BH01-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*NAMUR	6ES7 321-7TH00-a	T4	0...+60°C	—————	24Vdc
SM 322 DO 8*DC24V/2A	6ES7 322-1BF01-a	T4	0...+60°C	2A Res./P.D. 10W Tungsten	24Vdc
SM 322 DO 16*DC24V/0.5A	6ES7 322-1BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 322 DO 32*DC24V/0.5A	6ES7 322-1BL00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 315F-2 DP	6ES7 315-6FF01-a	T4	0...+60°C	Input DC 24V	24Vdc
Disconnecting Module	6ES7 195-7KF00-a	T6	0...+60°C	—————	24Vdc
Disconnecting Bus Module	6ES7 195-7HG00-a	T6	0...+60°C	—————	24Vdc
16 Digital Input/Output Module	6ES7 323-1BL00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
8 Digital Input/Output Module	6ES7 323-1BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
4Input/2Output Analog Module	6ES7 334-0CE01-a	T5	0...+60°C	—————	24Vdc
CPU 318-2	6ES7 318-2AJ00-a	T4	0...+60°C	—————	24Vdc
Counter Module	6ES7 350-2AH00-a	T4	0...+60°C	Output 0,5A Res./P.D. 5W Tungsten Total Load 4A	24Vdc
Analog Input/Output Module	6ES7 334-0KE00-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 232	6ES7 341-1AH01-a	T4	0...+60°C	—————	24Vdc
Com. Processor TTY	6ES7 341-1BH01-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 485	6ES7 341-1CH01-a	T4	0...+60°C	—————	24Vdc
K-Contr. 8 Dig. Inp. 4A I/O	6ES7 355-2CH00-a	T4	0...+60°C	—————	24Vdc
S-Contr. 8 Dig. I/O 4 AI	6ES7 355-2SH00-a	T4	0...+60°C	—————	24Vdc
K-Contr. 8 Dig. Inp. 4A I/O	6ES7 355-0VH10-a	T4	0...+60°C	—————	24Vdc
S-Contr. 8 Dig. I/O 4 AI	6ES7 355-1VH10-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 365-0BA01-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 365-0BA81-a	T4	-25...+60°C	—————	24Vdc
Interface Module	6ES7 360-3AA01-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 361-3CA01-a	T4	0...+60°C	—————	24Vdc

(13) **ANLAGE**

(14) **Zur Baumusterprüfbescheinigung KEMA 02ATEX1096 X**

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Positioning Module FM 351	6ES7 351-1AH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten Total Load 3A	24Vdc
Analog Input/Output Module	6ES7 335-7HG01-a	T4	0...+60°C	-----	24Vdc
Analog Output Module	6ES7 332-5HF00-a	T4	0...+60°C	-----	24Vdc
Simulatorbaugruppe	6ES7 374-2XH01-a	T4	0...+60°C	-----	24Vdc
Platzhalterbaugruppe	6ES7 370-0AA01-a	T4	0...+60°C	-----	24Vdc
Terminal (screw type) 20pin	6ES7 392-1AJ00-a	-	-	-----	24Vdc
Terminal (snap type) 20pin	6ES7 392-1BJ00-a	-	-	-----	24Vdc
CPU 315M-2DP	6ES7 315-2AG10-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 321 DI16 High-speed	6ES7 321-1BH10-a	T4	0...+60°C	-----	24Vdc
SM 322 DO16 High-speed	6ES7 322-1BH10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 326 DO 10*DC24/2A	6ES7 326-2BF01-a	T4	0...+60°C	AT 40°C: 2A RES./P.D. 5W tungsten AT 60°C: 1A RES./P.D. 5W tungsten	24Vdc
Counter Module FM 350	6ES7 350-1AH03-a	T4	0...+60°C	Output DC 24V, 0.5A	24Vdc
Positioning Input Module	6ES7 338-4BC01-a	T4	0...+60°C	-----	24Vdc
Diagnoserepeater	6ES7 972-0AB01-a	T4	0...+60°C	-----	24Vdc
CPU 317-2DP	6ES7 317-2AJ10-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 331 AI 8*13 Bit	6ES7 331-1KF01-a	T6	0...+60°C	-----	24Vdc
CPU 317T - 2DP	6ES7 317-6TJ10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
8 x IQ - Sence	6ES7 338-7XF00-a	T4	0...+60°C	-----	24Vdc
Profibus Terminator	6ES7 972-0DA00-a	T4	0...+60°C	-----	24Vdc
SM 322 DO 16*DC24V/0.5A	6ES7 322-8BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 331 8AI 14bit High Speed	6ES7 331-7HF01-a	T5	0...+60°C	-----	24Vdc
DI/DX8 x DC24V / 0,5A	6ES7 327-1BH00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
DP/DP Koppler	6ES7 158-0AD01-a	T4	0...+60°C	-----	24Vdc
Digital Inp. 16Ch. 24/48V AC/DC	6ES7 321-1CH00-a	T4	0...+60°C	-----	24/48V
Digital Outp. 16Ch. 24/48V AC/DC	6ES7 322-5GH00-a	T4	0...+60°C	-----	24/48V
CPU 315-2PN/DP	6ES7 315-2EG10-a	T4	0...+60°C	Input DC 24V	24Vdc
DP/PA-Koppler	6ES7 157-0AC82-a	T4	-25...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1AH02-a	T6	0...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1BH02-a	T6	0...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1CH02-a	T6	0...+60°C	-----	24Vdc
CPU 315T - 2DP	6ES7 315-6TG10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA01-a	T5	0...+60°C	-----	24Vdc
IM 153-2 (Cu) Outdoor	6ES7 153-2BA81-a	T5	-25...+60°C	-----	24Vdc
SM 326 DI 24*DC24V	6ES7 326-1BK01-a	T5	0...+60°C	-----	24Vdc
SM 326 DO 8*DC24/2A PM	6ES7 326-2BF40-a	T5	0...+60°C	-----	24Vdc
CPU 319-3PN/DP	6ES7 319-3EL00-a	T4	0...+60°C	Input DC 24V	24Vdc
Y-Coupler Module	6ES7 654-0YK00-a	T5	0...+60°C	-----	24Vdc
FM 352-5 DI12/Do8x24V 0,5A	6ES7 352-5AH00-a	T4	0...+60°C	-----	24Vdc
FM 352-5 DI12/Do8x24V 0,5A	6ES7 352-5AH10-a	T4	0...+60°C	-----	24Vdc
AI 8 x 16 BIT	6ES7 331-7NF00-a	T4	0...+60°C	-----	24Vdc
AI 8 x UI/I Isolated	6ES7 331-7NF10-a	T4	0...+60°C	-----	24Vdc
AI 8 x RTD	6ES7 331-7PF01-a	T4	0...+60°C	-----	24Vdc
AI 8 x TC	6ES7 331-7PF11-a	T4	0...+60°C	-----	24Vdc
AO 4 x 16 BIT	6ES7 332-7ND02-a	T4	0...+60°C	-----	24Vdc
CPU 312C	6ES7 312-5BE03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C	6ES7 313-5BF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C-2 DP	6ES7 313-6CF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C-2 PtP	6ES7 313-6BF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 314C-2 DP	6ES7 314-6CG03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 314C-2 PtP	6ES7 314-6BG03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 312M-1	6ES7 312-1AE13-a	T5	0...+60°C	Input DC 24V	24Vdc
CPU 314M-1	6ES7 314-1AG13-a	T5	0...+60°C	Input DC 24V	24Vdc
CPU 315-2PN/DP	6ES7 315-2EH13-a	T4	0...+60°C	Input DC 24V	24Vdc

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CPU 315F-2PN/DP	6ES7 315-2FH13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317-2PN/DP	6ES7 317-2EK13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2PN/DP	6ES7 317-2FK13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2DP	6ES7 317-6FF03-a	T4	0...+60°C	Input DC 24V	24Vdc
DP/PA-Koppler	6ES7 157-0AC83-a	T4	-25...+60°C	—————	24Vdc
Disconnecting Bus Module	6ES7 195-7HG80-a	T4	-25...+60°C	—————	—————
CPU 319F-3PN/DP	6ES7 318-3FL00-a	T4	0...+60°C	Input DC 24V	24Vdc
SM331 8AI HART	6ES7 331-7TF01-a	T4	0...+60°C	—————	24Vdc
SM332 AO 8 x 16 Bit HART	6ES7 332-8TF01-a	T4	0...+60°C	—————	24Vdc
IM 153-4PN	6ES7 153-4AA00-a	T4	0...+60°C	—————	24Vdc
Function Module FM 352	6ES7 352-1AH02-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten at 20°C Total Load 6A at 60°C Total Load 3A	24Vdc
SM 321 DI 64 x DC24V p-/m-read	6ES7 321-1BP00-a	T4	0...+60°C	64 channels (4 groups of 16) at 40°C 64 channels horiz. mounted at 60°C 32 channels horiz. mounted at 40°C 32 channels vert. mounted	24Vdc
SM 321 DO 64 x DC24V/0,3A sou	6ES7 322-1BP00-a	T4	0...+60°C	64 channels (4 groups of 16) 0,3A Res./P.D. 5W Tungsten at 25°C, max. 2,0A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. horiz. mounted at 60°C, max. 1,2A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. vert. mounted	24Vdc
SM 321 DO 64 x DC24V/0,3A sink	6ES7 322-1BP50-a	T4	0...+60°C	64 channels (4 groups of 16) 0,3A Res./P.D. 5W Tungsten at 25°C, max. 2,0A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. horiz. mounted at 60°C, max. 1,2A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. vert. mounted	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA02-a	T4	0...+60°C	—————	24Vdc
IM 153-2 (Cu) Outdoor	6ES7 153-2BA82-a	T4	-25...+60°C	—————	24Vdc
DP/PA-Koppler	6ES7 157-0AC83-a	T4	-25...+60°C	—————	24Vdc
SM 336 F-AI 6x0/4...20mA HART	6ES7 336-4GE00-a	T4	0...+60°C	—————	24Vdc
CPU 319-3PN/DP	6ES7 318-3EL01-a	T4	0...+60°C	—————	24Vdc
CPU 319F-3PN/DP	6ES7 318-3FL01-a	T4	0...+60°C	—————	24Vdc
Embedded controller	6ES7 677-1DD00-a	T4	0...+50°C	—————	24Vdc
Counter Module	6ES7 350-2AH01-a	T4	0...+60°C	Input - 24Vdc, 8 channels Output-24Vdc, 0,5A p.d./res., 5W tungsten, 8 ch. at 40°C total load 4A horiz. mounted at 60°C total load 2A horiz. mounted at 40°C total load 2A vert. mounted	24Vdc
CPU 315T - 2DP	6ES7 315-6TH13-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 317T - 2DP	6ES7 317-6TH13-a	T4	0...+60°C	Input DC 24V	24Vdc
Com. Processor RS 232	6ES7 341-1AH02-a	T4	0...+60°C	—————	24Vdc
Com. Processor TTY	6ES7 341-1BH02-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 422	6ES7 341-1CH02-a	T4	0...+60°C	—————	24Vdc
SM 331 AI6x16bit TC iso	6ES7 331-7PE10-a	T4	0...+60°C	Max. potential difference between channels: 250V AC Only marked in the installation manual !	24Vdc
IM 153	6ES7 153-4AA01-a	T4	0...+60°C	—————	24Vdc
Analog Input/Output Module	6ES7 335-7HG02-a	T4	0...+60°C	—————	24Vdc
CPU 312	6ES7 312-1AE14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 314	6ES7 314-1AG14-a	T4	0...+60°C	Input DC 24V!	24Vdc
CPU 315-2DP	6ES7 315-2AH14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 315F-2 DP	6ES7 315-6FF04-a	T4	0...+60°C	Input DC 24V	24Vdc
EM PCI-104	6ES7 677-1DD40-a	T4	0...+50°C	—————	24Vdc
EM PC	6ES7 677-1DD50-a	T4	0...+50°C	—————	24Vdc
SM 326 F-DO PM 8*24V/2A	6ES7 326-2BF41-a	T5	0...+60°C	—————	24Vdc
Embedded controller EC 31-RTX F	6ES7 677-1FD00-a	T4	0...+50°C	—————	24Vdc

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CPU 315-2PN/DP	6ES7 315-2EH14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 315F-2PN/DP	6ES7 315-2FJ14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317-2PN/DP	6ES7 317-2EK14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2PN/DP	6ES7 317-2FK14-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 331 AI 8*13 Bit	6ES7 331-1KF02-a	T6	0...+60°C	-----	24Vdc
SM 326 10 F-DO	6ES7 326-2BF10-a	T4	0...+60°C	24Vdc, 10 channels (2groups of 2 channels) 2 A p.d./res., 5W tungsten at 40°C 10A per group horiz. mounted at 50°C 7A per group horiz. mounted at 60°C 6A per group horiz. mounted at 40°C 5A per group vert. mounted	24Vdc
Positioning Module FM 351	6ES7 351-1AH02-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten Total Load 3A	24Vdc
SM 326 F-DI 24 24V	6ES7 326-1BK02-a	T5	0...+60°C	-----	24Vdc
CPU 319-3PN/DP	6ES7 318-3EL01-a	T4	0...+60°C	supply 24Vdc vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 319F-3PN/DP	6ES7 318-3FL01-a	T4	0...+60°C	supply 24Vdc vertically mounted 40°C horizontally mounted 60°C	24Vdc
10 F- DO	6ES7 326-2BF10-a	T4	0...+60°C	24Vdc, 10 channels (2groups of 2 channels) 2 A p.d./res., 5W tungsten at 40°C 10A per group horiz. mounted at 50°C 7A per group horiz. mounted at 60°C 6A per group horiz. mounted at 40°C 5A per group vert. mounted	24Vdc
FM 352-5 M	6ES7 352-5AH01-a	T4	0...+60°C	Input 24Vdc, 12 channels Output 24Vdc, 8channels 0.5A p.d./res., 5W tungsten Total load 4A vertically mounted 40°C horizontally mounted 60°C	24Vdc
FM 352-5 P	6ES7 352-5AH11-a	T4	0...+60°C	Input 24Vdc, 12 channels Output 24Vdc, 8channels 0.5A p.d./res., 5W tungsten Total load 4A vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 317TF - 2DP	6ES7 317-6TF14-a	T4	0...+60°C	0,5A p.d./res., 5W tungsten at 40°C, 4A total load hor. and vert. mounted at 60°C, 3A total load hor. mounted	24Vdc
Field Device Coupler	6ES7 157-0AC84-a	T4	-25...+60°C	supply 24Vdc, Input current max. 2.3A at 60°C output current 0.8A hor. mounted at 50°C output current 1A hor. mounted at 40°C output current 1A vert. mounted	24Vdc
Embedded controller	6ES7 677-1DD10-a	T4	0...+50°C	-----	24Vdc
Embedded controller	6ES7 677-1FD10-a	T4	0...+50°C	-----	24Vdc
IM 153-4 High Feature	6ES7 153-4BA00-a	T4	0...+60°C	supply 24Vdc Input current max. 600mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA02-a	T4	0...+60°C	supply 24Vdc input current max. 620mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA82-a	T4	-25...+60°C	supply 24Vdc input current max. 620mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 FF-Link	6ES7 153-2DA80-a	T4	-25...+60°C	supply 24Vdc input current max. 100mA vertically mounted 40°C horizontally mounted 60°C	24Vdc

(13) **ANLAGE**

(14) **Zur Baumusterprüfbescheinigung KEMA 02ATEX1096 X**

Ausgabe Nr. 36

CPU 314C-2PN/DP	6ES7 314-6EH04-a	T4	0...+60°C	supply 24Vdc input current max. 6.93 A Input -24Vdc, at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output -24Vdc, 0.5A Res./P.D., 5W tungsten, 16 channels (2 groups of 8 ch.) at 40°C hor. mounted, 3A total load per grup at 60°C hor. mounted, 2A total load per group at 40°C vert. mounted, 2A total load per group	24Vdc
Repeater RS 485	6ES7 972-0AA02-a	T4	0...+60°C	supply 24Vdc input current max. 200mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
SM322 DO 16*DC24V/0.5A	6ES7 322-8BH10-a	T4	0...+60°C	supply 24Vdc input current max. 2.1A per group output: 24Vdc, 0.5A p.d./res., 5W tungsten 16 channels (4 groups of 4 channels) at 40°C max. 2A per group, max. 8A total load vertically mounted at 60°C max. 2A per group, max. 8A total load horizontally mounted	24Vdc
CPU 312C	6ES7 312-5BF04-a	T4	0...+60°C	supply 24Vdc input current max. 650mA Input-24Vdc, at 40°C hor. mounted, 10 channels at 60°C hor. mounted, 5 channels at 40°C vert. mounted, 5 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten, 6 channels at 40°C hor. mounted, 2A total load at 60°C hor. mounted, 1,5A total load at 40°C vert. mounted, 1,5A total load	24Vdc
CPU 313C	6ES7 313-5BG04-a	T4	0...+60°C	supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 313C-2DP	6ES7 313-6CG04-a	T4	0...+60°C	supply 24Vdc, max. 3.9A Input-24Vdc at 40°C hor. mounted, 16 channels at 60°C hor. mounted, 8 channels at 40°C vert. mounted, 8 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 314C-2DP	6ES7 314-6CH04-a	T4	0...+60°C	supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc

(13) **ANLAGE**

(14) **Zur Baumusterprüfbescheinigung KEMA 02ATEX1096 X**

Ausgabe Nr. 36

CPU 313C-2PiP	6ES7 313-6BG04-a	T4	0...+60°C	supply 24Vdc, max. 3.9A Input-24Vdc at 40°C hor. mounted, 16 channels at 60°C hor. mounted, 8 channels at 40°C vert. mounted, 8 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 314C-2PiP	6ES7 314-6BH04-a	T4	0...+60°C	supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 317-2DP	6ES7 317-2AK14-a	T4	0...+60°C	supply 24Vdc, 870mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 317F-2DP	6ES7 317-6FF04-a	T4	0...+60°C	supply 24Vdc, 870mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
EM PCI-104	6ES7 677-1DD60-a	T4	0...+60°C	External supply 24V dc Internal supply 24V dc	24Vdc

Der Zusatz -a bezeichnet jeden Buchstaben oder Zahl, die sich auf nicht elektrische Eigenschaften beziehen, z.B. Sprache, Verpackung, Dokumentation usw.



# CERTIFICATE

## (1) Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) Type Examination Certificate Number: **KEMA 02ATEX1096 X** Issue Number: **36**

(4) Equipment: **Programmable Logic Controller Systems SIMATIC ET200M and S7-300, Modules Type 6ES7 ...**

(5) Manufacturer: **Siemens AG**

(6) Address: **Werner-von-Siemens-Strasse 50, 92224 Amberg, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report no. 216226100.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2006**

**EN 60079-15 : 2005**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of this equipment.

(12) The marking of the equipment shall include the following:



**II 3 G**

**Ex nA II T4 or T5 or T6**

This certificate is issued on 5 April 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

C.G. van Es  
Certification Manager

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(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 02ATEX1096 X**

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(15) **Description**

Modules Type 6ES7 ... and Type 6GK1 ... for use in SIMATIC ET200M and S7-300 Programmable Logic Controller Systems.

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

**Electrical data**

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

**Installation instructions**

The manual provided with the equipment shall be followed in detail to assure proper and safe operation.

(16) **Test Report**

No. 216226100.

(17) **Special conditions for safe use**

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529, taking into account the environmental conditions under which the equipment will be used.
2. When the temperature under rated conditions exceeds 70 °C at the cable or conduit entry point, or 80 °C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature values.
3. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 40%.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 216226100.

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**Table 1**

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
IM 153-1	6ES7 153-1AA03-a	T4	0...+60°C	—————	24Vdc
IM 153-Fo	6ES7 153-2BB00-a	T4	0...+60°C	—————	24Vdc
Busmodul	6ES7 195-7HA00-a	T5	0...+60°C	—————	5Vdc
Busmodul	6ES7 195-7HB00-a	T5	0...+60°C	—————	5Vdc
Busmodul	6ES7 195-7HC00-a	T5	0...+60°C	—————	5Vdc
BM IM/IM	6ES7 195-7HD10-a	T6	0...+60°C	—————	24Vdc
BM IM/IM	6ES7 195-7HD80-a	T6	-25...+60°C	—————	24Vdc
IM 157 Link	6ES7 157-0AA82-a	T5	-25...+60°C	—————	24Vdc
BM IM 157	6ES7 195-7HE80-a	T6	-25...+60°C	—————	5Vdc
BM DP/PA-Koppler	6ES7 195-7HF80-a	T6	-25...+60°C	—————	5Vdc
Interconnect Module	6ES7 654-7HY00-a	T5	0...+60°C	—————	24Vdc
Y-Coupler Module	6ES7 197-1LB00-a	T5	0...+60°C	—————	24Vdc
Y-IM Module	6ES7 654-0YS00-a	T5	0...+60°C	—————	24Vdc
RS485-Repeater	6ES7 972-0AA01-a	T4	0...+60°C	—————	24Vdc
SM 322 DO 8*DC24V, 0.5A	6ES7 322-8BF00-a	T4	0...+60°C	—————	24Vdc
SM 326 DI 24*DC24V	6ES7 326-1BK00-a	T4	0...+60°C	—————	24Vdc
Terminal (screw type)	6ES7 392-1AM00-a	-	-	—————	24Vdc
Terminal (snap type)	6ES7 392-1BM01-a	-	-	—————	24Vdc
SM 331 AI 2*12 Bit	6ES7 331-7KB02-a	T4	0...+60°C	—————	24Vdc
SM 331 AI 8*12 Bit	6ES7 331-7KF02-a	T4	0...+60°C	—————	24Vdc
SM 332 AO 2*12 Bit	6ES7 332-5HB01-a	T4	0...+60°C	—————	24Vdc
SM 332 AO 4*12 Bit	6ES7 332-5HD01-a	T4	0...+60°C	—————	24Vdc
SM 336 AI 6*13Bit	6ES7 336-1HE00-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V	6ES7 321-1BH02-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V	6ES7 321-1BH50-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 32*DC24V	6ES7 321-1BL00-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*DC24V, Alarm	6ES7 321-7BH01-a	T4	0...+60°C	—————	24Vdc
SM 321 DI 16*NAMUR	6ES7 321-7TH00-a	T4	0...+60°C	—————	24Vdc
SM 322 DO 8*DC24V/2A	6ES7 322-1BF01-a	T4	0...+60°C	2A Res./P.D. 10W Tungsten	24Vdc
SM 322 DO 16*DC24V/0.5A	6ES7 322-1BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 322 DO 32*DC24V/0.5A	6ES7 322-1BL00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 315F-2 DP	6ES7 315-6FF01-a	T4	0...+60°C	Input DC 24V	24Vdc
Disconnecting Module	6ES7 195-7KF00-a	T6	0...+60°C	—————	24Vdc
Disconnecting Bus Module	6ES7 195-7HG00-a	T6	0...+60°C	—————	24Vdc
16 Digital Input/Output Module	6ES7 323-1BL00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
8 Digital Input/Output Module	6ES7 323-1BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
4Input/2Output Analog Module	6ES7 334-0CE01-a	T5	0...+60°C	—————	24Vdc
CPU 318-2	6ES7 318-2AJ00-a	T4	0...+60°C	—————	24Vdc
Counter Module	6ES7 350-2AH00-a	T4	0...+60°C	Output 0,5A Res./P.D. 5W Tungsten Total Load 4A	24Vdc
Analog Input/Output Module	6ES7 334-0KE00-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 232	6ES7 341-1AH01-a	T4	0...+60°C	—————	24Vdc
Com. Processor TTY	6ES7 341-1BH01-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 485	6ES7 341-1CH01-a	T4	0...+60°C	—————	24Vdc
K-Contr. 8 Dig. Inp. 4A I/O	6ES7 355-2CH00-a	T4	0...+60°C	—————	24Vdc
S-Contr. 8 Dig. I/O 4 AI	6ES7 355-2SH00-a	T4	0...+60°C	—————	24Vdc
K-Contr. 8 Dig. Inp. 4A I/O	6ES7 355-0VH10-a	T4	0...+60°C	—————	24Vdc
S-Contr. 8 Dig. I/O 4 AI	6ES7 355-1VH10-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 365-0BA01-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 365-0BA81-a	T4	-25...+60°C	—————	24Vdc
Interface Module	6ES7 360-3AA01-a	T4	0...+60°C	—————	24Vdc
Interface Module	6ES7 361-3CA01-a	T4	0...+60°C	—————	24Vdc

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Positioning Module FM 351	6ES7 351-1AH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten Total Load 3A	24Vdc
Analog Input/Output Module	6ES7 335-7HG01-a	T4	0...+60°C	-----	24Vdc
Analog Output Module	6ES7 332-5HF00-a	T4	0...+60°C	-----	24Vdc
Simulatorbaugruppe	6ES7 374-2XH01-a	T4	0...+60°C	-----	24Vdc
Platzhalterbaugruppe	6ES7 370-0AA01-a	T4	0...+60°C	-----	24Vdc
Terminal (screw type) 20pin	6ES7 392-1AJ00-a	-	-	-----	24Vdc
Terminal (snap type) 20pin	6ES7 392-1BJ00-a	-	-	-----	24Vdc
CPU 315M-2DP	6ES7 315-2AG10-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 321 DI16 High-speed	6ES7 321-1BH10-a	T4	0...+60°C	-----	24Vdc
SM 322 DO16 High-speed	6ES7 322-1BH10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 326 DO 10*DC24/2A	6ES7 326-2BF01-a	T4	0...+60°C	AT 40°C: 2A RES./P.D. 5W tungsten AT 60°C: 1A RES./P.D. 5W tungsten	24Vdc
Counter Module FM 350	6ES7 350-1AH03-a	T4	0...+60°C	Output DC 24V, 0.5A	24Vdc
Positioning Input Module	6ES7 338-4BC01-a	T4	0...+60°C	-----	24Vdc
Diagnoserepeater	6ES7 972-0AB01-a	T4	0...+60°C	-----	24Vdc
CPU 317-2DP	6ES7 317-2AJ10-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 331 AI 8*13 Bit	6ES7 331-1KF01-a	T6	0...+60°C	-----	24Vdc
CPU 317T - 2DP	6ES7 317-6TJ10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
8 x IQ - Sence	6ES7 338-7XF00-a	T4	0...+60°C	-----	24Vdc
Profibus Terminator	6ES7 972-0DA00-a	T4	0...+60°C	-----	24Vdc
SM 322 DO 16*DC24V/0.5A	6ES7 322-8BH01-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
SM 331 8AI 14bit High Speed	6ES7 331-7HF01-a	T5	0...+60°C	-----	24Vdc
DI/DX8 x DC24V / 0,5A	6ES7 327-1BH00-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
DP/DP Koppler	6ES7 158-0AD01-a	T4	0...+60°C	-----	24Vdc
Digital Inp. 16Ch. 24/48V AC/DC	6ES7 321-1CH00-a	T4	0...+60°C	-----	24/48V
Digital Outp. 16Ch. 24/48V AC/DC	6ES7 322-5GH00-a	T4	0...+60°C	-----	24/48V
CPU 315-2PN/DP	6ES7 315-2EG10-a	T4	0...+60°C	Input DC 24V	24Vdc
DP/PA-Koppler	6ES7 157-0AC82-a	T4	-25...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1AH02-a	T6	0...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1BH02-a	T6	0...+60°C	-----	24Vdc
Com. Processor CP 340	6ES7 340-1CH02-a	T6	0...+60°C	-----	24Vdc
CPU 315T - 2DP	6ES7 315-6TG10-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA01-a	T5	0...+60°C	-----	24Vdc
IM 153-2 (Cu) Outdoor	6ES7 153-2BA81-a	T5	-25...+60°C	-----	24Vdc
SM 326 DI 24*DC24V	6ES7 326-1BK01-a	T5	0...+60°C	-----	24Vdc
SM 326 DO 8*DC24/2A PM	6ES7 326-2BF40-a	T5	0...+60°C	-----	24Vdc
CPU 319-3PN/DP	6ES7 318-3EL00-a	T4	0...+60°C	Input DC 24V	24Vdc
Y-Coupler Module	6ES7 654-0YK00-a	T5	0...+60°C	-----	24Vdc
FM 352-5 DI12/DO8x24V 0,5A	6ES7 352-5AH00-a	T4	0...+60°C	-----	24Vdc
FM 352-5 DI12/DO8x24V 0,5A	6ES7 352-5AH10-a	T4	0...+60°C	-----	24Vdc
AI 8 x 16 BIT	6ES7 331-7NF00-a	T4	0...+60°C	-----	24Vdc
AI 8 x UI/I Isolated	6ES7 331-7NF10-a	T4	0...+60°C	-----	24Vdc
AI 8 x RTD	6ES7 331-7PF01-a	T4	0...+60°C	-----	24Vdc
AI 8 x TC	6ES7 331-7PF11-a	T4	0...+60°C	-----	24Vdc
AO 4 x 16 BIT	6ES7 332-7ND02-a	T4	0...+60°C	-----	24Vdc
CPU 312C	6ES7 312-5BE03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C	6ES7 313-5BF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C-2 DP	6ES7 313-6CF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 313C-2 PiP	6ES7 313-6BF03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 314C-2 DP	6ES7 314-6CG03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 314C-2 PiP	6ES7 314-6BG03-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 312M-1	6ES7 312-1AE13-a	T5	0...+60°C	Input DC 24V	24Vdc
CPU 314M-1	6ES7 314-1AG13-a	T5	0...+60°C	Input DC 24V	24Vdc
CPU 315-2PN/DP	6ES7 315-2EH13-a	T4	0...+60°C	Input DC 24V	24Vdc

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CPU 315F-2PN/DP	6ES7 315-2FH13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317-2PN/DP	6ES7 317-2EK13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2PN/DP	6ES7 317-2FK13-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2DP	6ES7 317-6FF03-a	T4	0...+60°C	Input DC 24V	24Vdc
DP/PA-Koppler	6ES7 157-0AC83-a	T4	-25...+60°C	—————	24Vdc
Disconnecting Bus Module	6ES7 195-7HG80-a	T4	-25...+60°C	—————	
CPU 319F-3PN/DP	6ES7 318-3FL00-a	T4	0...+60°C	Input DC 24V	24Vdc
SM331 8AI HART	6ES7 331-7TF01-a	T4	0...+60°C	—————	24Vdc
SM332 AO 8 x 16 Bit HART	6ES7 332-8TF01-a	T4	0...+60°C	—————	24Vdc
IM 153-4PN	6ES7 153-4AA00-a	T4	0...+60°C	—————	24Vdc
Function Module FM 352	6ES7 352-1AH02-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten at 20°C Total Load 6A at 60°C Total Load 3A	24Vdc
SM 321 DI 64 x DC24V p-/m-read	6ES7 321-1BP00-a	T4	0...+60°C	64 channels (4 groups of 16) at 40°C 64 channels horiz. mounted at 60°C 32 channels horiz. mounted at 40°C 32 channels vert. mounted	24Vdc
SM 321 DO 64 x DC24V/0,3A sou	6ES7 322-1BP00-a	T4	0...+60°C	64 channels (4 groups of 16) 0,3A Res./P.D. 5W Tungsten at 25°C, max. 2,0A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. horiz. mounted at 60°C, max. 1,2A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. vert.. mounted	24Vdc
SM 321 DO 64 x DC24V/0,3A sink	6ES7 322-1BP50-a	T4	0...+60°C	64 channels (4 groups of 16) 0,3A Res./P.D. 5W Tungsten at 25°C, max. 2,0A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. horiz. mounted at 60°C, max. 1,2A p. gr. horiz. mounted at 40°C, max. 1,6A p. gr. vert.. mounted	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA02-a	T4	0...+60°C	—————	24Vdc
IM 153-2 (Cu) Outdoor	6ES7 153-2BA82-a	T4	-25...+60°C	—————	24Vdc
DP/PA-Koppler	6ES7 157-0AC83-a	T4	-25...+60°C	—————	24Vdc
SM 336 F-AI 6x0/4...20mA HART	6ES7 336-4GE00-a	T4	0...+60°C	—————	24Vdc
CPU 319-3PN/DP	6ES7 318-3EL01-a	T4	0...+60°C	—————	24Vdc
CPU 319F-3PN/DP	6ES7 318-3FL01-a	T4	0...+60°C	—————	24Vdc
Embedded controller	6ES7 677-1DD00-a	T4	0...+50°C	—————	24Vdc
Counter Module	6ES7 350-2AH01-a	T4	0...+60°C	Input - 24Vdc, 8 channels Output-24Vdc, 0,5A p.d./res., 5W tungsten, 8 ch. at 40°C total load 4A horiz. mounted at 60°C total load 2A horiz. mounted at 40°C total load 2A vert. mounted	24Vdc
CPU 315T - 2DP	6ES7 315-6TH13-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten	24Vdc
CPU 317T - 2DP	6ES7 317-6TH13-a	T4	0...+60°C	Input DC 24V	24Vdc
Com. Processor RS 232	6ES7 341-1AH02-a	T4	0...+60°C	—————	24Vdc
Com. Processor TTY	6ES7 341-1BH02-a	T4	0...+60°C	—————	24Vdc
Com. Processor RS 422	6ES7 341-1CH02-a	T4	0...+60°C	—————	24Vdc
SM 331 AI6x16bit TC iso	6ES7 331-7PE10-a	T4	0...+60°C	Max. potential difference between channels: 250V AC Only marked in the installation manual !	24Vdc
IM 153	6ES7 153-4AA01-a	T4	0...+60°C	—————	24Vdc
Analog Input/Output Module	6ES7 335-7HG02-a	T4	0...+60°C	—————	24Vdc
CPU 312	6ES7 312-1AE14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 314	6ES7 314-1AG14-a	T4	0...+60°C	Input DC 24V!	24Vdc
CPU 315-2DP	6ES7 315-2AH14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 315F-2 DP	6ES7 315-6FF04-a	T4	0...+60°C	Input DC 24V	24Vdc
EM PCI-104	6ES7 677-1DD40-a	T4	0...+50°C	—————	24Vdc
EM PC	6ES7 677-1DD50-a	T4	0...+50°C	—————	24Vdc
SM 326 F-DO PM 8*24V/2A	6ES7 326-2BF41-a	T5	0...+60°C	—————	24Vdc

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Embedded controller EC 31-RTX F	6ES7 677-1FD00-a	T4	0...+50°C	—————	24Vdc
CPU 315-2PN/DP	6ES7 315-2EH14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 315F-2PN/DP	6ES7 315-2FJ14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317-2PN/DP	6ES7 317-2EK14-a	T4	0...+60°C	Input DC 24V	24Vdc
CPU 317F-2PN/DP	6ES7 317-2FK14-a	T4	0...+60°C	Input DC 24V	24Vdc
SM 331 AI 8*13 Bit	6ES7 331-1KF02-a	T6	0...+60°C	—————	24Vdc
SM 326 10 F-DO	6ES7 326-2BF10-a	T4	0...+60°C	24Vdc, 10 channels (2groups of 2 channels) 2 A p.d./res., 5W tungsten at 40°C 10A per group horiz. mounted at 50°C 7A per group horiz. mounted at 60°C 6A per group horiz. mounted at 40°C 5A per group vert. mounted	24Vdc
Positioning Module FM 351	6ES7 351-1AH02-a	T4	0...+60°C	0,5A Res./P.D. 5W Tungsten Total Load 3A	24Vdc
SM 326 F-DI 24 24V	6ES7 326-1BK02-a	T5	0...+60°C	—————	24Vdc
CPU 319-3PN/DP	6ES7 318-3EL01-a	T4	0...+60°C	supply 24Vdc vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 319F-3PN/DP	6ES7 318-3FL01-a	T4	0...+60°C	supply 24Vdc vertically mounted 40°C horizontally mounted 60°C	24Vdc
10 F- DO	6ES7 326-2BF10-a	T4	0...+60°C	24Vdc, 10 channels (2groups of 2 channels) 2 A p.d./res., 5W tungsten at 40°C 10A per group horiz. mounted at 50°C 7A per group horiz. mounted at 60°C 6A per group horiz. mounted at 40°C 5A per group vert. mounted	24Vdc
FM 352-5 M	6ES7 352-5AH01-a	T4	0...+60°C	Input 24Vdc, 12 channels Output 24Vdc, 8channels 0.5A p.d./res., 5W tungsten Total load 4A vertically mounted 40°C horizontally mounted 60°C	24Vdc
FM 352-5 P	6ES7 352-5AH11-a	T4	0...+60°C	Input 24Vdc, 12 channels Output 24Vdc, 8channels 0.5A p.d./res., 5W tungsten Total load 4A vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 317TF - 2DP	6ES7 317-6TF14-a	T4	0...+60°C	0,5A p.d./res., 5W tungsten at 40°C, 4A total load hor. and vert. mounted at 60°C, 3A total load hor. mounted	24Vdc
Field Device Coupler	6ES7 157-0AC84-a	T4	-25...+60°C	supply 24Vdc, Input current max. 2.3A at 60°C output current 0.8A hor. mounted at 50°C output current 1A hor. mounted at 40°C output current 1A vert. mounted	24Vdc
Embedded controller	6ES7 677-1DD10-a	T4	0...+50°C	—————	24Vdc
Embedded controller	6ES7 677-1FD10-a	T4	0...+50°C	—————	24Vdc
IM 153-4 High Feature	6ES7 153-4BA00-a	T4	0...+60°C	supply 24Vdc Input current max. 600mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA02-a	T4	0...+60°C	supply 24Vdc input current max. 620mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 (Cu)	6ES7 153-2BA82-a	T4	-25...+60°C	supply 24Vdc input current max. 620mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
IM 153-2 FF-Link	6ES7 153-2DA80-a	T4	-25...+60°C	supply 24Vdc input current max. 100mA vertically mounted 40°C horizontally mounted 60°C	24Vdc

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CPU 314C-2PN/DP	6ES7 314-6EH04-a	T4	0...+60°C	<p>supply 24Vdc input current max. 6.93 A Input -24Vdc, at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output -24Vdc, 0.5A Res./P.D., 5W tungsten, 16 channels (2 groups of 8 ch.) at 40°C hor. mounted, 3A total load per grup at 60°C hor. mounted, 2A total load per group at 40°C vert. mounted, 2A total load per group</p>	24Vdc
Repeater RS 485	6ES7 972-0AA02-a	T4	0...+60°C	<p>supply 24Vdc input current max. 200mA vertically mounted 40°C horizontally mounted 60°C</p>	24Vdc
SM322 DO 16*DC24V/0.5A	6ES7 322-8BH10-a	T4	0...+60°C	<p>supply 24Vdc input current max. 2.1A per group output: 24Vdc, 0.5A p.d./res., 5W tungsten 16 channels (4 groups of 4 channels) at 40°C max. 2A per group, max. 8A total load vertically mounted at 60°C max. 2A per group, max. 8A total load horizontally mounted</p>	24Vdc
CPU 312C	6ES7 312-5BF04-a	T4	0...+60°C	<p>supply 24Vdc input current max. 650mA Input-24Vdc, at 40°C hor. mounted, 10 channels at 60°C hor. mounted, 5 channels at 40°C vert. mounted, 5 channels Output-24Vdc, 0,5A Res./P.D., 5W tungsten, 6 channels at 40°C hor. mounted, 2A total load at 60°C hor. mounted, 1,5A total load at 40°C vert. mounted, 1,5A total load</p>	24Vdc
CPU 313C	6ES7 313-5BG04-a	T4	0...+60°C	<p>supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load</p>	24Vdc
CPU 313C-2DP	6ES7 313-6CG04-a	T4	0...+60°C	<p>supply 24Vdc, max. 3.9A Input-24Vdc at 40°C hor. mounted, 16 channels at 60°C hor. mounted, 8 channels at 40°C vert. mounted, 8 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load</p>	24Vdc
CPU 314C-2DP	6ES7 314-6CH04-a	T4	0...+60°C	<p>supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load</p>	24Vdc

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CPU 313C-2PiP	6ES7 313-6BG04-a	T4	0...+60°C	supply 24Vdc, max. 3.9A Input-24Vdc at 40°C hor. mounted, 16 channels at 60°C hor. mounted, 8 channels at 40°C vert. mounted, 8 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 314C-2PiP	6ES7 314-6BH04-a	T4	0...+60°C	supply 24Vdc, max. 4A Input-24Vdc at 40°C hor. mounted, 24 channels at 60°C hor. mounted, 12 channels at 40°C vert. mounted, 12 channels Output-24Vdc, 0.5A Res./P.D., 5W tungsten 16 channels (2 groups of 8 channels) at 40°C hor. mounted, 3A total load at 60°C hor. mounted, 2A total load at 40°C vert. mounted, 2A total load	24Vdc
CPU 317-2DP	6ES7 317-2AK14-a	T4	0...+60°C	supply 24Vdc, 870mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
CPU 317F-2DP	6ES7 317-6FF04-a	T4	0...+60°C	supply 24Vdc, 870mA vertically mounted 40°C horizontally mounted 60°C	24Vdc
EM PCI-104	6ES7 677-1DD60-a	T4	0...+60°C	External supply 24V dc Internal supply 24V dc	24Vdc

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