

(1) TYPE EXAMINATION CERTIFICATE

(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: **30**

(4) Equipment: **Programmable Logic Controller Systems SIMATIC ET200M and S7-300, Modules Type 6ES7 ... and 6GK1 ...**

(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) KEMA Quality 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. 214051500.

(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 November 18, 2010 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.

KEMA Quality B.V.

C.G. van Es
Certification Manager

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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**

KEMA No. 214051500.

(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 standard listed at (9).

(19) **Test documentation**

As listed in Test Report No. 214051500.

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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 |
| 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 |

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| 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 |
| Bus Terminal 12M | 6GK1 500-0AA10 | T6 | 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 |
| 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 |

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| 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 |
| 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 | 24Vdc |

(13) **SCHEDULE**

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

Issue No. 30

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|-----------------|------------------|----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| | | | | 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 | |
| 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 |

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