

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM19US0167X

3. **Equipment:** SIMATIC Network Components, Scalance Modules
(Type Reference and Name)

4. **Name of Listing Company:** Siemens AG – Type Test Center Karlsruhe

5. **Address of Listing Company:** Oestliche Rheinbrueckenstr 50
D-76187 Karlsruhe, Baden-Wuerttemberg
Germany

6. The examination and test results are recorded in confidential report number:

PR455045 dated 24th January 2020

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2022, FM Class 3611:2021, FM Class 3810:2021,
ANSI/UL 121201:2021, ANSI/UL 61010-1:2019

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested, and Approved.

10. **Equipment Ratings:**

In type of protection nonincendive equipment, the programmable controller system component (6GK1 Series) equipment is certified to the following classification(s).

Nonincendive Equipment for use in Class I, Division 2, Groups A, B, C and D; nonincendive for use in Class I, Zone 2, Group IIC, hazardous (classified) locations; and ordinary (unclassified) locations with an ambient temperature rating of 0 °C to +60 °C, indoor environments.

Certificate issued by:

J.E. Marquedant
VP, Manager – Electrical Systems

4 June 2023

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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In type of protection nonincendive equipment, the programmable controller system component (6GK5 Series) equipment is certified to the following classification(s).

Nonincendive Equipment for use in Class I, Division 2, Groups A, B, C and D; nonincendive for use in Class I, Zone 2, Group IIC, hazardous (classified) locations; and ordinary (unclassified) locations with an ambient temperature rating of -40 °C to +70 °C, indoor environments.

In type of protection nonincendive equipment, the programmable controller system component (6GK7 Series) equipment is certified to the following classification(s).

Nonincendive Equipment for use in Class I, Division 2, Groups A, B, C and D; nonincendive for use in Class I, Zone 2, Group IIC, hazardous (classified) locations; and ordinary (unclassified) locations with an ambient temperature rating of 0 °C to +60 °C, indoor environments.

In type of protection nonincendive equipment, the programmable controller system component (6NH3 Series) equipment is certified to the following classification(s).

Nonincendive equipment for use in Class I, Division 2, Groups A, B, C and D; nonincendive for use in Class I, Zone 2, Group IIC, hazardous (classified) locations; and ordinary (unclassified) locations with an ambient temperature rating of -40 °C to +70 °C, indoor environments.

11. The marking of the equipment shall include:

In type of protection nonincendive equipment, the programmable controller system component (6GK1 Series) equipment is labelled with the following marking(s).

Class I, Division 2, Groups A, B, C, D T¹⁾

Class I, Zone 2, Group IIC T²⁾

For ambient temperature range and temperature class marking, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

In type of protection nonincendive equipment, the programmable controller system component (6GK5 Series) equipment is labelled with the following marking(s).

Class I, Division 2, Groups A, B, C, D T¹⁾

Class I, Zone 2, Group IIC T²⁾

For ambient temperature range and temperature class marking, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

In type of protection nonincendive equipment, the programmable controller system component (6GK7 Series) equipment is labelled with the following marking(s).

Class I, Division 2, Groups A, B, C, D T¹⁾

Class I, Zone 2, Group IIC T²⁾

For ambient temperature range and temperature class marking, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

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In type of protection nonincendive equipment, the programmable controller system component (6NH3 Series) equipment is labelled with the following marking(s).

Class I, Division 2, Groups A, B, C, D T¹⁾

Class I, Zone 2, Group IIC T²⁾

For ambient temperature range and temperature class marking, see Section 12.

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2

WARNING – EXPLOSION HAZARD – DO NOT OPEN ENCLOSURE OR REPLACE BATTERY WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT

12. **Description of Equipment:**

General – The SIMATIC network component modules are designed for industrial and hazardous (classified) location applications. The Ethernet switching modules are an open-type programmable controller which can be used for solving extended automation tasks such as storing signals from pushbuttons, evaluating the position of selector switches, processing signals from limit and safety switches, counting low-frequency pulses, controlling motor valves, actuators, provide standalone Ethernet linking and switching functionality for local area network systems etc. This device can be assembled, as necessary. Included are interface- and power supply modules, central processing units, communicating modules and input-output modules. They are installed on a standard rail or wall-mount configuration and may be installed together either in the factory or in the field. The devices are designed for installation within a cabinet to support industrial Ethernet structure in ambient environments up to +40...+70 °C, depending upon model code option and installation configuration, at a nominal supply voltage of 12-24 VDC.

Construction – The programmable controller system component consists of two printed circuit boards, which is housed in a standard housing used for rail mounting, consisting of two parts (base and cover) constructed of an alloy plate or thermoplastic base covered by a thermoplastic front enclosure cover.

For more specifics concerning construction and description details of the programmable controller system component, reference the manufacturer's sales literature and specification sheets.

Ratings – The equipment is certified to the following ratings.

The ambient operating temperature range is 0 °C to +60 °C (6GK1 Series, 6GK7 Series), or -40 °C to +70 °C (6GK5 Series, 6NH3 Series), when mounted and properly installed.

The equipment is designated for installation transient overvoltages up to levels of overvoltage category II, and environmentally classified as pollution degree 2.

In type of protection nonincendive equipment, the programmable controller system component (6GK1 Series) equipment is connected to limited output Class 2 circuits and power source with the following nominal external supply values.

Supply Terminals:

V-input = 19.2-28.8 VDC (24 VDC), I-input = 250 mA maximum

Signaling Terminals:

V-input = 24 VDC, I-input = 1 A maximum

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In type of protection nonincendive equipment, the programmable controller system component (6GK5 Series) equipment is connected to limited output Class 2 circuits and power source with the following nominal external supply values.

Supply Terminals:

V-input = 3.3 VDC, I-input = 500 mA maximum
V-input = 8-32 VDC (12-24 VDC), I-input = 200 mA...16 A maximum
V-input = 12-48 VDC (12-24 VDC), I-input = 260 mA maximum
V-input = 46-57 VDC (12-24 VDC), I-input = 2.5 A maximum
V-input = 100-240 VAC, I-input = 264 mA maximum
V-input = 115-210 VDC

Signaling Terminals:

V-input = 24 VDC, I-input = 100 mA maximum

In type of protection nonincendive equipment, the programmable controller system component (6GK7 Series) equipment is connected to limited output Class 2 circuits and power source with the following nominal external supply values.

Supply Terminals:

V-input = 14.5-15.5 VDC (15 VDC), I-input = 300 mA maximum

In type of protection nonincendive equipment, the programmable controller system component (6NH3 Series) equipment is connected to limited output Class 2 circuits and power source with the following nominal external supply values.

Power Supply and Signal Terminals:

V_{max} (U_i) = 10.8-28.8 VDC (24 VDC)

Model Codes – The equipment is identified with the following model code structure.

In type of protection nonincendive equipment, the programmable controller system component (6GK1 Series) equipment is designated with the following model code(s).

6GK1 Series, SIMATIC NET Scalance Modules

Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK1 411-1AC00	Industrial Ethernet CloudConnect 712	T4	T4	0 °C to 60 °C
6GK1 411-5AC00	Industrial Ethernet CloudConnect 716	T4	T4	0 °C to 60 °C

In type of protection nonincendive equipment, the programmable controller system component (6GK5 Series) equipment is designated with the following model code(s).

6GK5 Series, SIMATIC NET Scalance Modules

Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 004-1BD00-a	Ethernet Switching Scalance Module XB004-1 FS04	T4	T4	-10 °C to 60 °C
6GK5 004-1BF00-a	Ethernet Switching Scalance Module XB004-1LD FS04	T4	T4	-10 °C to 60 °C
6GK5 004-1GL10-1AB2	Ethernet Switching Scalance Module XB004-1G	T4	T4	-10 °C to 60 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 004-1GM10-1AB2	Ethernet Switching Scalance Module XB004-1LDG	T4	T4	-10 °C to 60 °C
6GK5 004-2BD00-a	Ethernet Switching Scalance Module XB004-2 FS01	T4	T4	-10 °C to 60 °C
6GK5 004-2BF00-1AB2	Ethernet Switching Scalance Module XB004-2LD	T4	T4	-10 °C to 60 °C
6GK5 005-0BA00-a	Ethernet Switching Scalance Module XB005	T4	T4	-10 °C to 60 °C
6GK5 005-0BA10-1AA3	Ethernet Switching Scalance Module X005	T4	T4	-40 °C to 75 °C
6GK5 005-0BA10-1CA3	Ethernet Switching Scalance Module X005EEC	T4	T4	-40 °C to 75 °C
6GK5 005-0GA10-1AB2	Ethernet Switching Scalance Module XB005G	T4	T4	-10 °C to 60 °C
6GK5 008-0BA10-1AB2	Scalance Module XB008	T4	T4	-10 °C to 60 °C
6GK5 008-0GA10-1AB2	Ethernet Switching Scalance Module XB008G	T4	T4	-10 °C to 60 °C
6GK5 100-4AV00-2DA2	Optical Bypass Relay Module XC100-4OBR SM SC (2x2)	T4	T4	-40 °C to 70 °C
6GK5 100-4AV00-2FA2	Optical Bypass Relay Module XC100-4OBR SM SC	T4	T4	-40 °C to 70 °C
6GK5 100-4AW00-2FA2	Optical Bypass Relay Module XC100-4OBR MM SC	T4	T4	-40 °C to 70 °C
6GK5 101-1BB00-a	Ethernet Media Converter Scalance Module X101-1	T4	T4	-10 °C to 60 °C
6GK5 101-1BC00-a	Ethernet Media Converter Scalance Module X101-1LD	T4	T4	-10 °C to 60 °C
6GK5 101-1BH00-a	Ethernet Media Converter Scalance Module X101-1POF	T4	T4	-10 °C to 60 °C
6GK5 101-1BX00-a	Ethernet Media Converter Scalance Module X101-1AUI	T4	T4	-10 °C to 60 °C
6GK5 101-1BY00-a	Ethernet Media Converter Scalance Module X101-1FL	T4	T4	-10 °C to 60 °C
6GK5 104-0BA00-1SA2	Test Access Port Scalance Module TAP104	T4	T4	-40 °C to 70 °C
6GK5 104-2BB00-a	Scalance Module X104-2	T4	T4	0 °C to 60 °C
6GK5 106-1BB00-a	Scalance Module X106-1	T4	T4	0 °C to 60 °C
6GK5 106-2BB00-2AC2	Scalance Module XC106-2	T4	T4	-40 °C to 70 °C
6GK5 106-2BD00-2AC2	Scalance Module XC106-2 SC	T4	T4	-40 °C to 70 °C
6GK5 108-0BA00-2AC2	Scalance Module XC108	T4	T4	-40 °C to 70 °C
6GK5 108-0BA00-a	Ethernet Switch Scalance Module X108	T4A	T4	-20 °C to 70 °C
6GK5 108-0PA00-a	Ethernet Switch Scalance Module X108 PoE	T4	T4	-20 °C to 60 °C
6GK5 108-2BB00-2AB2	Scalance Module XB108-2 (ST)	T4	T4	0 °C to 60 °C
6GK5 108-2BD00-2AB2	Scalance Module XB108-2 (SC)	T4	T4	0 °C to 60 °C
6GK5 112-0BA00-2AB2	Scalance Module XB112	T4	T4	0 °C to 60 °C
6GK5 112-2BB00-a	Scalance Module X112-2	T4	T4	-10 °C to 70 °C
6GK5 116-0BA00-2AB2	Scalance Module XB116	T4	T4	0 °C to 60 °C
6GK5 116-0BA00-2AC2	Scalance Module XC116	T4	T4	-40 °C to 70 °C
6GK5 116-0BA00-a	Scalance Module X116	T4	T4	-20 °C to 70 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 124-0BA00-2AB2	Scalance Module XB124	T4	T4	0 °C to 60 °C
6GK5 124-0BA00-2AC2	Scalance Module XC124	T4	T4	-40 °C to 70 °C
6GK5 124-0BA00-2AR3	Scalance Module XR124 WG	T4	T4	0 °C to 60 °C ⁴⁾
6GK5 124-0BA00-a	Scalance Module X124	T4	T4	-20 °C to 70 °C
6GK5 200-4AH00-2BA3	Scalance Module X200-4P IRT	T4	T4	-25 °C to 40 °C
6GK5 200-4AH10-2BA3	Scalance Module X200-4P IRT	T4	T4	-40 °C to 50 °C
6GK5 201-3BH00-2BA3	Scalance Module X201-3P IRT	T4	T4	-25 °C to 50 °C
6GK5 201-3BH10-2BA3	Scalance Module X201-3P IRT	T4	T4	-40 °C to 60 °C
6GK5 201-3JR00-2BA6	Scalance Module X201-3P IRT PRO	T4	T4	-25 °C to 60 °C
6GK5 202-2BB00-2BA3	Scalance Module X202-2 IRT	T4	T4	-40 °C to 60 °C
6GK5 202-2BB10-2BA3	Scalance Module X202-2 IRT	T4	T4	-40 °C to 60 °C
6GK5 202-2BH00-2BA3	Scalance Module X202-2P IRT	T4	T4	-25 °C to 60 °C
6GK5 202-2BH10-2BA3	Scalance Module X202-2P IRT	T4	T4	-40 °C to 60 °C
6GK5 202-2JR00-2BA6	Scalance Module X202-2P IRT PRO	T4	T4	-25 °C to 60 °C
6GK5 204-0BA00-2AF2	Scalance Module XF204	T4	T4	-40 °C to 60 °C
6GK5 204-0BA00-2BA3	Scalance Module X204 IRT	T4	T4	-40 °C to 70 °C
6GK5 204-0BA00-2BF2	Scalance Module XF204 IRT	T4	T4	-40 °C to 60 °C
6GK5 204-0BA00-2KB2	Scalance Module X204 RNA	T4	T4	-40 °C to 60 °C
6GK5 204-0BA00-2MB2	Scalance Module X204 RNA-HSR	T4	T4	-40 °C to 60 °C
6GK5 204-0BA10-2BA3	Scalance Module X204 IRT	T4	T4	-40 °C to 70 °C
6GK5 204-0JA00-2BA6	Scalance Module X204 IRT PRO	T4	T4	-25 °C to 70 °C
6GK5 204-2AA00-2BD2	Scalance Module XF204-2BA IRT	T4	T4	-40 °C to 60 °C ¹¹⁾
6GK5 204-2AA00-2GF2	Scalance Module XF204-2BA	T4	T4	-40 °C to 70 °C ¹²⁾
6GK5 204-2AA00-2YF2	Scalance Module XF204-2BA DNA	T4	T4	-40 °C to 70 °C ¹²⁾
6GK5 204-2BB10-2AA3	Ethernet Switch Scalance Module X204-2	T4	T4	-40 °C to 60 °C
6GK5 204-2BB10-2CA2	Scalance Module X204-2TS	T4	T4	-40 °C to 70 °C
6GK5 204-2BB11-2AA3	Ethernet Switch Scalance Module X204-2FM	T4	T4	-40 °C to 60 °C
6GK5 204-2BC00-2AF2	Ethernet Switch Scalance Module XF204-2	T4	T4	-40 °C to 60 °C
6GK5 204-2BC10-2AA3	Ethernet Switch Scalance Module X204-2LD	T4	T4	-40 °C to 60 °C
6GK5 204-2BC10-2CA2	Scalance Module X204-2LD TS	T4	T4	-40 °C to 70 °C
6GK5 205-3BB00-2AB2	Scalance Module XB205-3 ST	T4	T4	0 °C to 60 °C
6GK5 205-3BB00-2TB2	Scalance Module XB205-3 ST	T4	T4	0 °C to 60 °C
6GK5 205-3BD00-2AB2	Scalance Module XB205-3 SC	T4	T4	0 °C to 60 °C
6GK5 205-3BD00-2TB2	Scalance Module XB205-3 SC	T4	T4	0 °C to 60 °C
6GK5 205-3BF00-2AB2	Scalance Module XB205-3 SC LD	T4	T4	0 °C to 60 °C
6GK5 205-3BF00-2TB2	Scalance Module XB205-3 SC LD	T4	T4	0 °C to 60 °C
6GK5 206-1BB10-2AA3	Ethernet Switch Scalance Module X206-1	T4	T4	-40 °C to 60 °C
6GK5 206-1BC00-2AF2	Ethernet Switch Scalance Module XF206-1	T4	T4	-40 °C to 60 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 206-1BC10-2AA3	Ethernet Switch Scalance Module X206-1 LD	T4	T4	-40 °C to 60 °C
* 6GK5 206-2BB00-2AC2	Scalance Module XC206-2 ST	T4	T4	-40 °C to 70 °C
* 6GK5 206-2BD00-2AC2	Scalance Module XC206-2 SC	T4	T4	-40 °C to 70 °C
* 6GK5 206-2BS00-2AC2	Scalance Module XC206-2 SFP	T4	T4	-40 °C to 70 °C
* 6GK5 206-2BS00-2FC2	Scalance Module XC206-2 SFP EEC	T4	T4	-40 °C to 70 °C
* 6GK5 206-2GS00-2AC2	Scalance Module XC206-2 SFP G	T4	T4	-40 °C to 70 °C ⁴⁾
* 6GK5 206-2GS00-2FC2	Scalance Module XC206-2 SFP G EEC	T4	T4	-40 °C to 70 °C ⁴⁾
* 6GK5 206-2GS00-2TC2	Scalance Module XC206-2 SFP G	T4	T4	-40 °C to 70 °C ⁴⁾
* 6GK5 206-2RS00-2AC2	Scalance Module XC206-2G PoE	T4	T4	-40 °C to 60 °C ⁸⁾
* 6GK5 206-2RS00-5AC2	Scalance Module XC206-2G PoE	T4	T4	-40 °C to 60 °C ⁸⁾
* 6GK5 206-2RS00-5FC2	Scalance Module XC206-2G PoE EEC	T4	T4	-40 °C to 60 °C ⁸⁾
6GK5 208-0BA00-2AB2	Scalance Module XB208	T4	T4	0 °C to 60 °C
* 6GK5 208-0BA00-2AC2	Scalance Module XC208	T4	T4	-40 °C to 70 °C
6GK5 208-0BA00-2AF2	Ethernet Switch Scalance Module XF208	T4	T4	-40 °C to 60 °C
* 6GK5 208-0BA00-2FC2	Scalance Module XC208 EEC	T4	T4	-40 °C to 70 °C
6GK5 208-0BA00-2TB2	Scalance Module XB208	T4	T4	0 °C to 60 °C
6GK5 208-0BA10-2AA3	Ethernet Switch Scalance Module X208	T4	T4	-40 °C to 60 °C
* 6GK5 208-0GA00-2AC2	Scalance Module XC208 G	T4	T4	-40 °C to 70 °C
* 6GK5 208-0GA00-2FC2	Scalance Module XC208 G EEC	T4	T4	-40 °C to 70 °C
* 6GK5 208-0GA00-2TC2	Scalance Module XC208 G	T4	T4	-40 °C to 70 °C
* 6GK5 208-0GA10-2VC2	Scalance Module XC208G TSN	T4	T4	-40 °C to 70 °C
6GK5 208-0HA00-2AS6	Scalance Module XP208	T4	T4	-40 °C to 70 °C
6GK5 208-0HA00-2ES6	Scalance Module XP208 EEC	T4	T4	-40 °C to 70 °C
6GK5 208-0HA00-2TS6	Scalance Module XP208	T4	T4	-40 °C to 70 °C
6GK5 208-0HA00-a	Scalance Module X208 PRO	T4	T4	-20 °C to 70 °C
6GK5 208-0HA10-a	Scalance Module X208 PRO	T4	T4	-40 °C to 70 °C
* 6GK5 208-0RA00-2AC2	Scalance Module XC208G PoE	T4	T4	-40 °C to 60 °C
* 6GK5 208-0RA00-5AC2	Scalance Module XC208G PoE	T4	T4	-40 °C to 60 °C ⁸⁾
6GK5 208-0UA00-5ES6	Scalance Module XP208 PoE EEC	T4	T4	-40 °C to 70 °C
6GK5 212-2BB00-2AA3	Scalance Module X212-2	T4	T4	-40 °C to 60 °C
6GK5 212-2BC00-2AA3	Scalance Module X212-2LD	T4	T4	-40 °C to 60 °C
6GK5 213-3BB00-2AB2	Scalance Module XB213-3 ST	T4	T4	0 °C to 60 °C
6GK5 213-3BB00-2TB2	Scalance Module XB213-3 ST	T4	T4	0 °C to 60 °C
6GK5 213-3BD00-2AB2	Scalance Module XB213-3 SC	T4	T4	0 °C to 60 °C
6GK5 213-3BD00-2TB2	Scalance Module XB213-3 SC	T4	T4	0 °C to 60 °C
6GK5 213-3BF00-2AB2	Scalance Module XB213-3 SC LD	T4	T4	0 °C to 60 °C
6GK5 213-3BF00-2TB2	Scalance Module XB213-3 SC LD	T4	T4	0 °C to 60 °C
6GK5 216-0BA00-2AA3	Scalance Module X216	T4	T4	-40 °C to 60 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 216-0BA00-2AB2	Scalance Module XB216	T4	T4	0 °C to 60 °C
* 6GK5 216-0BA00-2AC2	Scalance Module XC216	T4	T4	-40 °C to 70 °C
* 6GK5 216-0BA00-2FC2	Scalance Module XC216 EEC	T4	T4	-40 °C to 70 °C
6GK5 216-0BA00-2TB2	Scalance Module XB216	T4	T4	0 °C to 60 °C
6GK5 216-0HA00-2AS6	Scalance Module XP216	T4	T4	-40 °C to 70 °C
6GK5 216-0HA00-2ES6	Scalance Module XP216 EEC	T4	T4	-40 °C to 70 °C
6GK5 216-0HA00-2TS6	Scalance Module XP216	T4	T4	-40 °C to 70 °C
6GK5 216-0UA00-5ES6	Scalance Module XP216 PoE EEC	T4	T4	-40 °C to 70 °C
* 6GK5 216-3RS00-2AC2	Scalance Module XP216-3G PoE	T4	T4	-40 °C to 60 °C ¹³
* 6GK5 216-3RS00-5AC2	Scalance Module XP216-3G PoE	T4	T4	-40 °C to 60 °C ¹⁴
* 6GK5 216-4BS00-2AC2	Scalance Module XC216-4C	T4	T4	-40 °C to 70 °C ⁵⁾
* 6GK5 216-4GS00-2AC2	Scalance Module XC216-4C G	T4	T4	-40 °C to 70 °C ⁵⁾
* 6GK5 216-4GS00-2FC2	Scalance Module XC216-4C G EEC	T4	T4	-40 °C to 70 °C ⁵⁾
* 6GK5 216-4GS00-2TC2	Scalance Module XC216-4C G	T4	T4	-40 °C to 70 °C ⁵⁾
6GK5 224-0BA00-2AA3	Scalance Module X224	T4	T4	-40 °C to 60 °C
* 6GK5 224-0BA00-2AC2	Scalance Module XC224	T4	T4	-40 °C to 70 °C
* 6GK5 224-4GS00-2AC2	Scalance Module XC224-4C G	T4	T4	-40 °C to 70 °C ⁵⁾
* 6GK5 224-4GS00-2FC2	Scalance Module XC224-4C G EEC	T4	T4	-40 °C to 70 °C ⁵⁾
* 6GK5 224-4GS00-2TC2	Scalance Module XC224-4C G	T4	T4	-40 °C to 70 °C ⁵⁾
6GK5 302-7GD00-1EA3	Scalance Module X302-7EEC (1 x 24 V, Uncoated)	T4	T4	-40 °C to 70 °C
6GK5 302-7GD00-1GA3	Scalance Module X302-7EEC (1 x 24 V, Coated)	T4	T4	-40 °C to 70 °C
6GK5 302-7GD00-2EA3	Scalance Module X302-7EEC (2 x 24 V, Uncoated)	T4	T4	-40 °C to 70 °C
6GK5 302-7GD00-2GA3	Scalance Module X302-7EEC (2 x 24 V, Coated)	T4	T4	-40 °C to 70 °C
6GK5 304-2BD00-a	Scalance Module X304-2 FE	T4	T4	-40 °C to 60 °C
6GK5 306-1BF00-2AA3	Scalance Module X306-1LD FE	T4	T4	-40 °C to 60 °C
6GK5 307-2FD00-1EA3	Scalance Module X307-2EEC (1 x 24 V, Uncoated)	T4	T4	-40 °C to 70 °C
6GK5 307-2FD00-1GA3	Scalance Module X307-2EEC (1 x 24 V, Coated)	T4	T4	-40 °C to 70 °C
6GK5 307-2FD00-2EA3	Scalance Module X307-2EEC (2 x 24 V, Uncoated)	T4	T4	-40 °C to 70 °C
6GK5 307-2FD00-2GA3	Scalance Module X307-2EEC (2 x 24 V, Coated)	T4	T4	-40 °C to 70 °C
6GK5 307-3BL00-a	Scalance Module X307-3	T4	T4	-10 °C to 60 °C
6GK5 307-3BL10-a	Scalance Module X307-3	T4	T4	-10 °C to 60 °C
6GK5 307-3BM00-a	Scalance Module X307-3LD	T4	T4	-40 °C to 60 °C
6GK5 307-3BM10-a	Scalance Module X307-3LD	T4	T4	-40 °C to 60 °C
6GK5 308-2FL00-a	Scalance Module X308-2	T4	T4	-10 °C to 60 °C
6GK5 308-2FL10-a	Scalance Module X308-2	T4	T4	-10 °C to 60 °C
6GK5 308-2FM00-a	Scalance Module X308-2LD	T4	T4	-40 °C to 60 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 308-2FM10-a	Scalance Module X308-2LD	T4	T4	-40 °C to 60 °C
6GK5 308-2FN00-a	Scalance Module X308-2LH	T4	T4	-40 °C to 60 °C
6GK5 308-2FN10-a	Scalance Module X308-2LH	T4	T4	-40 °C to 60 °C
6GK5 308-2FP00-a	Scalance Module X308-2LH+	T4	T4	-40 °C to 60 °C
6GK5 308-2FP10-a	Scalance Module X308-2LH+	T4	T4	-40 °C to 60 °C
* 6GK5 308-2GG00-2AA2	Scalance Module X308-2M	T4	T4	-40 °C to 70 °C
* 6GK5 308-2GG00-2CA2	Scalance Module X308-2M TS	T4	T4	-40 °C to 70 °C
* 6GK5 308-2GG10-2AA2	Scalance Module X308-2M	T4	T4	-40 °C to 70 °C
* 6GK5 308-2GG10-2CA2	Scalance Module X308-2M TS	T4	T4	-40 °C to 70 °C
* 6GK5 308-2QG00-2AA2	Scalance Module X308-2M PoE	T4	T4	-40 °C to 60 °C
* 6GK5 308-2QG10-2AA2	Scalance Module X308-2M PoE	T4	T4	-40 °C to 60 °C
6GK5 310-0BA00-a	Industrial Ethernet Switch Scalance Module X310FE	T4	T4	-40 °C to 60 °C
6GK5 310-0BA10-a	Industrial Ethernet Switch Scalance Module X310FE	T4	T4	-40 °C to 60 °C
6GK5 310-0FA00-a	Scalance Module X310	T4	T4	-40 °C to 60 °C
6GK5 310-0FA10-a	Scalance Module X310	T4	T4	-40 °C to 60 °C
6GK5 320-1BD00-a	Scalance Module X320-1FE	T4	T4	-40 °C to 60 °C
6GK5 320-3BF00-a	Scalance Module X320-3LD	T4	T4	-40 °C to 60 °C
6GK5 323-4TS00-2AC2	Scalance Module XC319-4	T4	T4	-40 °C to 60 °C ¹⁵
6GK5 323-4TS01-2AC2	Scalance Module XCM323	T4	T4	-40 °C to 60 °C ¹⁵
6GK5 324-0BA00-2AR3	Scalance Module XR324 WG	T4	T4	0 °C to 60 °C ¹⁰⁾
6GK5 324-0GG00-1AR2	Scalance Module XR324-12M (Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-0GG00-1CR2	Scalance Module XR324-12M TS (Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-0GG00-1HR2	Scalance Module XR324-12M (Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-0GG10-1AR2	Scalance Module XR324-12M (Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-0GG10-1CR2	Scalance Module XR324-12M TS (Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-0GG10-1HR2	Scalance Module XR324-12M (Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG00-1ER2	Scalance Module XR324-4M EEC (1 x 24 V, Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG00-1JR2	Scalance Module XR324-4M EEC (1 x 24 V, Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG00-2ER2	Scalance Module XR324-4M EEC (2 x 24 V, Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG00-2JR2	Scalance Module XR324-4M EEC (2 x 24 V, Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG10-1ER2	Scalance Module XR324-4M EEC (1 x 24 V, Front Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG10-1JR2	Scalance Module XR324-4M EEC (1 x 24 V, Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4GG10-2ER2	Scalance Module XR324-4M EEC (2 x 24 V, Front Display)	T4	T4	-40 °C to 70 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 324-4GG10-2JR2	Scalance Module XR324-4M EEC (2 x 24 V, Rear Display)	T4	T4	-40 °C to 70 °C
6GK5 324-4QG00-1AR2	Scalance Module XR324-PoE (Front Display)	T4	T4	-40 °C to 60 °C
6GK5 324-4QG00-1CR2	Scalance Module XR324-PoE TS (Front Display)	T4	T4	-40 °C to 60 °C
6GK5 324-4QG00-1HR2	Scalance Module XR324-PoE (Rear Display)	T4	T4	-40 °C to 60 °C
6GK5 324-4QG10-1AR2	Scalance Module XR324-PoE (Front Display)	T4	T4	-40 °C to 60 °C
6GK5 324-4QG10-1CR2	Scalance Module XR324-PoE TS (Front Display)	T4	T4	-40 °C to 60 °C
6GK5 324-4QG10-1HR2	Scalance Module XR324-PoE (Rear Display)	T4	T4	-40 °C to 60 °C
6GK5 324-8TS00-2AC2	Scalance Module XC316-8	T4	T4	-40 °C to 60 °C ¹⁶
6GK5 324-8TS01-2AC2	Scalance Module XCM324	T4	T4	-40 °C to 60 °C ¹⁶
6GK5 328-4FS00-2AR3	Scalance Module XR328-4CWG	T4	T4	0 °C to 60 °C ¹⁰⁾
6GK5 328-4SS00-2AR3	Scalance Module XR328-4CWG	T4	T4	0 °C to 60 °C ¹⁰⁾
6GK5 328-4TS00-2AC2	Scalance Module XC324-4	T4	T4	-40 °C to 60 °C ¹⁵
6GK5 328-4TS00-2EC2	Scalance Module XC324-4 EEC	T4	T4	-40 °C to 60 °C ¹⁵
6GK5 328-4TS01-2AC2	Scalance Module XCM328	T4	T4	-40 °C to 60 °C ¹⁵
6GK5 328-4TS01-2EC2	Scalance Module XCH328	T4	T4	-40 °C to 60 °C ¹⁵
* 6GK5 332-0GA00-2AC2	Scalance Module XC332	T4	T4	-40 °C to 60 °C
* 6GK5 332-0GA01-2AC2	Scalance Module XCM332	T4	T4	-40 °C to 60 °C
6GK5 400-8AS00-8AP2	Scalance Module PE400-8SFP (Port Extender)	T4	T4	-40 °C to 70 °C
6GK5 408-0GA00-8AP2	Scalance Module PE408 (Port Extender)	T4	T4	-40 °C to 70 °C
6GK5 408-0PA00-8AP2	Scalance Module PE408PoE (Port Extender)	T4	T4	-40 °C to 70 °C
6GK5 408-4GP00-2AM2	Scalance Module XM408-4C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 408-4GQ00-2AM2	Scalance Module XM408-4C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 408-8GR00-2AM2	Scalance Module XM408-8C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 408-8GS00-2AM2	Scalance Module XM408-8C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 414-3FC00-a	Scalance Module X414-3 (Basic System)	T4A	T4	-40 °C to 70 °C
6GK5 414-3FC10-a	Scalance Module X414-3 (Basic System)	T4A	T4	-40 °C to 70 °C
6GK5 416-4GR00-2AM2	Scalance Module XM416-4C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 416-4GS00-2AM2	Scalance Module XM416-4C (Basic System)	T4	T4	-40 °C to 70 °C
6GK5 491-2AB00-a	Scalance Module MM491-2 (Media), V5	T4A	T4	-40 °C to 70 °C
6GK5 491-2AC00-a	Scalance Module MM491-2LD (Media), V5	T4A	T4	-40 °C to 70 °C
6GK5 491-2AE00-a	Scalance Module MM491-2LH+ (Media)	T4A	T4	-40 °C to 70 °C
6GK5 492-2AL00-a	Scalance Module MM492-2 (Media)	T4A	T4	-40 °C to 70 °C
6GK5 492-2AM00-a	Scalance Module MM492-2LD (Media)	T4A	T4	-40 °C to 70 °C
6GK5 492-2AN00-a	Scalance Module MM492-2LH (Media)	T4A	T4	-40 °C to 70 °C
6GK5 492-2AP00-a	Scalance Module MM492-2LH+ (Media)	T4A	T4	-40 °C to 70 °C
6GK5 492-2AQ00-a	Scalance Module MM492-2LH+ (Media)	T4A	T4	-40 °C to 70 °C
6GK5 495-8BA00-a	Scalance Module EM495-8 (Extender)	T4A	T4	-40 °C to 70 °C
6GK5 496-4MA00-a	Scalance Module EM496-4 (Extender)	T4A	T4	-40 °C to 70 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 524-8GR00-2AR2	Scalance Module XR524-8C (Layer 3 Variant)	T4	T4	-40 °C to 70 °C
6GK5 524-8GS00-2AR2	Scalance Module XR524-8C (Layer 2 Variant, Standard)	T4	T4	-40 °C to 70 °C
6GK5 526-8GR00-2AR2	Scalance Module XR526-8C (Layer 3 Variant)	T4	T4	0 °C to 70 °C
6GK5 526-8GS00-2AR2	Scalance Module XR526-8C (Layer 2 Variant)	T4	T4	0 °C to 70 °C
6GK5 528-0AA00-2AR2	Scalance Module XR528-6M (Basic System, Front Display)	T4	T4	0 °C to 60 °C
6GK5 528-0AA00-2HR2	Scalance Module XR528-6M (Basic System, Rear Display)	T4	T4	0 °C to 60 °C
6GK5 528-0AR00-2AR2	Scalance Module XR528-6M (Basic System, Front Display)	T4	T4	0 °C to 60 °C
6GK5 528-0AR00-2HR2	Scalance Module XR528-6M (Basic System, Rear Display)	T4	T4	0 °C to 60 °C
6GK5 552-0AA00-2AR2	Scalance Module XR552-12M (Basic System, Front Display)	T4	T4	0 °C to 60 °C
6GK5 552-0AA00-2HR2	Scalance Module XR552-12M (Basic System, Rear Display)	T4	T4	0 °C to 60 °C
6GK5 552-0AR00-2AR2	Scalance Module XR552-12M (Basic System, Front Display)	T4	T4	0 °C to 60 °C
6GK5 552-0AR00-2HR2	Scalance Module XR552-12M (Basic System, Rear Display)	T4	T4	0 °C to 60 °C
** 6GK5 622-2GS00-2AC2	Scalance Module SC622-2C	T4	T4	-40 °C to 70 °C ⁷⁾
** 6GK5 622-2GT00-2AC2	Scalance Module SC622-2C	T4	T4	-40 °C to 70 °C ⁷⁾
** 6GK5 626-2GS00-2AC2	Scalance Module SC626-2C	T4	T4	-40 °C to 70 °C ⁷⁾
** 6GK5 626-2GT00-2AC2	Scalance Module SC626-2C	T4	T4	-40 °C to 70 °C ⁷⁾
* 6GK5 632-2GS00-2AC2	Scalance Module SC632-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 632-2GT00-2AC2	Scalance Module SC632-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 636-2GS00-2AC2	Scalance Module SC636-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 636-2GT00-2AC2	Scalance Module SC636-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 642-2GS00-2AC2	Scalance Module SC642-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 642-2GT00-2AC2	Scalance Module SC642-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 646-2GS00-2AC2	Scalance Module SC646-2C	T4	T4	-40 °C to 70 °C ⁶⁾
* 6GK5 646-2GT00-2AC2	Scalance Module SC646-2C	T4	T4	-40 °C to 70 °C ⁶⁾
6GK5 791-2AC00-a	AC Power Supply Module	T4	T4	-40 °C to 60 °C
6GK5 791-2DC00-a	DC Power Supply Module	T4	T4	-40 °C to 70 °C
6GK5 991-1AD00-8AA0	Transceiver Module SFP991-1	T4	T4	-40 °C to 65 °C
6GK5 991-1AD00-8FA0	Transceiver Module SFP991-1 (C)	T4	T4	-40 °C to 65 °C
6GK5 991-1AD00-8GA0	Transceiver Module SFP991-1A	T4	T4	-40 °C to 60 °C
6GK5 991-1AE00-8AA0	Transceiver Module SFP991-1LH+	T4	T4	-40 °C to 60 °C
6GK5 991-1AE30-8AA0	Transceiver Module SFP991-1ELH200	T4	T4	-40 °C to 60 °C
6GK5 991-1AF00-8AA0	Transceiver Module SFP991-1LD	T4	T4	-40 °C to 65 °C
6GK5 991-1AF00-8FA0	Transceiver Module SFP991-1LD (C)	T4	T4	-40 °C to 65 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 991-1AF00-8GA0	Transceiver Module SFP991-1LD A	T4	T4	-40 °C to 60 °C
* 6GK5 991-2AB00-8AA0	Scalance Module MM991-2	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AB01-8AA0	Scalance Module MM991-2 FM	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AC00-8AA0	Scalance Module MM991-2LD	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AD00-8AA0	Scalance Module MM991-2 (SC)	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AE00-8AA0	Scalance Module MM991-2LH+ (SC)	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AF00-8AA0	Scalance Module MM991-2LD (SC)	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2AH00-8AA0	Scalance Module MM991-2P (SC)	T4	T4	-40 °C to 70 °C ³⁾
* 6GK5 991-2DA00-8AA2	Scalance Module BA 2xRJ45VD HA	T4	T4	-40 °C to 70 °C
* 6GK5 991-2VA00-8AA2	Scalance Module BA 2xRJ45VD HA	T4	T4	-40 °C to 70 °C
6GK5 991-4AB00-8AA0	Scalance Module MM991-4 (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 991-4AC00-8AA0	Scalance Module MM991-4LD (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-1AG00-8AA0	Transceiver Module SFP992-1+	T4	T4	-40 °C to 60 °C
6GK5 992-1AL00-8AA0	Transceiver Module SFP992-1	T4	T4	-40 °C to 65 °C
6GK5 992-1AL00-8FA0	Transceiver Module SFP992-1 (C)	T4	T4	-40 °C to 65 °C
6GK5 992-1AL00-8RA0	Transceiver Module SFP992-1BXM	T4	T4	-40 °C to 60 °C
6GK5 992-1AL00-8TA0	Transceiver Module SFP992-1BXT	T4	T4	-40 °C to 60 °C
6GK5 992-1AM00-8AA0	Transceiver Module SFP992-1LD	T4	T4	-40 °C to 65 °C
6GK5 992-1AM00-8FA0	Transceiver Module SFP992-1LD (C)	T4	T4	-40 °C to 65 °C
6GK5 992-1AM00-8RA0	Transceiver Module SFP992-1BX10R	T4	T4	-40 °C to 60 °C
6GK5 992-1AM00-8TA0	Transceiver Module SFP992-1BX10T	T4	T4	-40 °C to 60 °C
6GK5 992-1AM30-8AA0	Transceiver Module SFP992-1LD+	T4	T4	-40 °C to 60 °C
6GK5 992-1AN00-8AA0	Transceiver Module SFP992-1LH	T4	T4	-40 °C to 60 °C
6GK5 992-1AP00-8AA0	Transceiver Module SFP992-1LH+	T4	T4	-40 °C to 60 °C
6GK5 992-1AQ00-8AA0	Transceiver Module SFP992-1ELH	T4	T4	-40 °C to 60 °C
* 6GK5 992-2AL00-8AA0	Scalance Module MM992-2	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AL00-8FA0	Scalance Module MM992-2 TS	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AM00-8AA0	Scalance Module MM992-2LD	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AN00-8AA0	Scalance Module MM992-2LH	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AP00-8AA0	Scalance Module MM992-2LH+	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AQ00-8AA0	Scalance Module MM992-2ELH	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AS00-8AA0	Scalance Module MM992-2FSP	T4	T4	-40 °C to 70 °C
* 6GK5 992-2AS00-8FA0	Scalance Module MM992-2FSP	T4	T4	-40 °C to 70 °C
* 6GK5 992-2GA00-8AA0	Scalance Module MM992-2CUC	T4	T4	-40 °C to 70 °C
* 6GK5 992-2GA00-8FA0	Scalance Module MM992-2CUC TS	T4	T4	-40 °C to 70 °C
* 6GK5 992-2HA00-0AA0	Scalance Module MM992-2M12	T4	T4	-40 °C to 70 °C
* 6GK5 992-2SA00-8AA0	Scalance Module MM992-2CU	T4	T4	-40 °C to 70 °C
* 6GK5 992-2VA00-8AA0	Scalance Module MM992-2VD	T4	T4	-40 °C to 70 °C

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Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK5 992-4AL00-8AA0	Scalance Module MM992-4 (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-4AM00-8AA0	Scalance Module MM992-4LD (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-4AN00-8AA0	Scalance Module MM992-4LH (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-4AP00-8AA0	Scalance Module MM992-4LH+ (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-4AQ00-8AA0	Scalance Module MM992-4ELH (Media, Optical)	T4	T4	0 °C to 60 °C
6GK5 992-4AS00-8AA0	Scalance Module MM992-4SFP (Media, SFP)	T4	T4	0 °C to 60 °C
6GK5 992-4GA00-8AA0	Scalance Module MM992-4CUC (Media, RJ45)	T4	T4	0 °C to 60 °C
6GK5 992-4QA00-8AA0	Scalance Module MM992-4POE (Media, RJ45)	T4	T4	0 °C to 60 °C
6GK5 992-4RA00-8AA0	Scalance Module MM992-4POEC (Media, RJ45)	T4	T4	0 °C to 60 °C
6GK5 992-4SA00-8AA0	Scalance Module MM992-4CU (Media, RJ45)	T4	T4	0 °C to 60 °C
6GK5 993-1AT00-8AA0	Transceiver Module SFP993-1	T4	T4	-40 °C to 60 °C
6GK5 993-1AU00-8AA0	Transceiver Module SFP993-1LD	T4	T4	-40 °C to 60 °C
* 6GK5 998-3GS00-2AC2	Scalance Module LPE9403	T4	T4	-40 °C to 60 °C ⁹⁾

Note³⁾ = +60 °C (with Accessory Models SFP99x-x)

Note⁴⁾ = +65 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP991-1LD (C), SFP992-1, SFP992-1LD, or SFP992-1LD (C)), when installed in horizontal mount position;

+60 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP991-1LD (C), SFP992-1, SFP992-1LD, or SFP992-1LD (C)), when installed in vertical mount position;

+60 °C (with Accessory Models SFP991-1ELH200, SFP991-1LH+, SFP992-1+, SFP992-1ELH, SFP992-1LH, or SFP992-1LH+), when installed in horizontal mount position;

+60 °C (with Accessory Models SFP991-1ELH200, SFP991-1LH+, SFP992-1+, SFP992-1ELH, SFP992-1LH, or SFP992-1LH+), when installed in vertical mount position

Note⁵⁾ = +60 °C (with Accessory Models SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in horizontal mount position;

+50 °C (with Accessory Models SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in vertical mount position;

+60 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP992-1, or SFP992-1), when installed in horizontal mount position;

+55 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP992-1, or SFP992-1, when installed in vertical mount position

Note⁶⁾ = +65 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP992-1, or SFP992-1LD), when installed in horizontal mount position;

+60 °C (with Accessory Models SFP991-1, SFP991-1LD, SFP992-1, or SFP992-1LD), when installed in vertical mount position;

+60 °C (with Accessory Models SFP991-1ELH200, SFP991-1LH+, SFP992-1+, SFP992-1ELH, SFP992-1LH, or SFP992-1LH+), when installed in horizontal mount position;

+50 °C (with Accessory Models SFP991-1ELH200, SFP991-1LH+, SFP992-1+, SFP992-1ELH, SFP992-1LH, or SFP992-1LH+), when installed in vertical mount position

Note⁷⁾ = +65 °C (with Accessory Models SFP992-1, SFP992-1(C), SFP992-1LD, or SFP992-1LD(C)), when installed in horizontal mount position;

+60 °C (with Accessory Models SFP992-1, SFP992-1(C), SFP992-1LD, or SFP992-1LD(C)), when installed in vertical mount position;

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- +60 °C (with Accessory Models SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in vertical mount position
- Note⁸⁾ = +60 °C (with Accessory Models SFP992-1, SFP992-1 (C), SFP992-1LD, or SFP992-1LD (C)), when installed in horizontal mount position;
- +55 °C (with Accessory Models SFP992-1, SFP992-1 (C), SFP992-1+, SFP992-1BX10R, SFP992-1BX10T, SFP992-1BXMR, SFP992-1BXMT, SFP992-1ELH, SFP992-1LD, SFP992-1LD (C), SFP992-1LD+, SFP992-1LH, or SFP992-1LH+), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP993-1 or SFP993-1LD), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP992-1, SFP992-1 (C), SFP992-1+, SFP992-1BX10R, SFP992-1BX10T, SFP992-1BXMR, SFP992-1BXMT, SFP992-1ELH, SFP992-1LD, SFP992-1LD (C), SFP992-1LD+, SFP992-1LH, or SFP992-1LH+), when installed in vertical mount position
- Note⁹⁾ = +60 °C (with Accessory Models SFP991-1, SFP991-1 (C), SFP991-1ELH200, SFP991-1LD, SFP991-1LD (C), SFP991-1LH+, SFP992-1, SFP992-1 (C), SFP992-1ELH, SFP992-1LD, SFP992-1LD (C), SFP992-1LH, or SFP992-1LH+), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP991-1, SFP991-1 (C), SFP991-1ELH200, SFP991-1LD, SFP991-1LD (C), SFP991-1LH+, SFP992-1, SFP992-1 (C), SFP992-1ELH, SFP992-1LD, SFP992-1LD (C), SFP992-1LH, or SFP992-1LH+), when installed in vertical mount position
- Note¹⁰⁾ = +50 °C (with Accessory Models SFP992-1ELH, SFP992-1LH, or SFP992-1LH+)
- Note¹¹⁾ = +50 °C (with Accessory Models BA 2 x SCRJ)
- Note¹²⁾ = +60 °C (with Accessory Models BA 2 x SCRJ)
- Note¹³⁾ = +60 °C (with Accessory Models SFP992-1, SFP992-1 (C), SFP992-1LD, or SFP992-1LD (C)), when installed in horizontal mount position;
- +55 °C (with Accessory Models SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP991-1A, SFP991-1LD A, SFP993-1, or SFP993-1LD), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP991-1A, SFP991-1LD A, SFP992-1, SFP992-1 (C), SFP992-1LD, or SFP992-1LD (C)), when installed in vertical mount or face-up mount position
- Note¹⁴⁾ = +60 °C (with Accessory Models SFP991-1A, SFP991-1LD A, SFP992-1, SFP992-1 (C), SFP992-1LD, SFP992-1LD (C)), when installed in horizontal mount position;
- +55 °C (with Accessory Models SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T, or SFP992-1BX10R), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP993-1, or SFP993-1LD), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP991-1A, SFP991-1LD A, SFP992-1, SFP992-1 (C), SFP992-1LD, SFP992-1LD (C)), when installed in vertical mount or face-up mount position
- Note¹⁵⁾ = +60 °C (with Accessory Models SFP991-1, SFP991-1(C), SFP991-1LD, SFP992-1, SFP992-1LD and SFP992-1LD (C)), when installed in horizontal mount position;
- +55 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in horizontal mount position;

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- +50 °C (with Accessory Models SFP991-1, SFP991-1(C), SFP991-1LD, SFP992-1, SFP992-1LD and SFP992-1LD (C)), when installed in vertical, face-down and face-up mount position;
- +50 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in vertical and face-down mount position;
- +40 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in face-up mount position;
- +40 °C (with Accessory Model SFP993-1LH in FO-port 3, 4, 7 and 8), when installed in horizontal mount position
- Note¹⁶⁾ = +60 °C (with Accessory Models SFP991-1, SFP991-1(C), SFP991-1LD, SFP992-1, SFP992-1LD and SFP992-1LD (C)), when installed in horizontal mount position;
- +55 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in horizontal mount position;
- +50 °C (with Accessory Models SFP991-1, SFP991-1(C), SFP991-1LD, SFP992-1, SFP992-1LD and SFP992-1LD (C)), when installed in face-down mount position;
- +50 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in horizontal mount position;
- +40 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in face-up mount position;
- +40 °C (with Accessory Models SFP993-1 and SFP993-1LD in all FO-ports, SFP991-1LH+, SFP991-1ELH200, SFP992-1+, SFP992-1LD+, SFP992-1LH, SFP992-1LH+, SFP992-1ELH, SFP992-1BXMT, SFP992-1BXMR, SFP992-1BX10T and SFP992-1BX10R in FO-port 3, 4, 7 and 8), when installed in vertical mount position;
- +40 °C (with Accessory Model SFP993-1LH in FO-port 3, 4, 7 and 8), when installed in horizontal mount position

a = Options not affecting safety, any 1 to 4 digit alphanumeric code referring to non-electrical properties including documentation, delivery packing, language, and product associates, etc.

In type of protection nonincendive equipment, the programmable controller system component (6GK7 Series) equipment is designated with the following model code(s).

6GK7 Series, SIMATIC NET Scalance Modules

Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
6GK7 142-7BX00-0AX0	LOGO! CMR 2020 (2G Communication Module)	T4	T4	-20 °C to 70 °C
6GK7 142-7EX00-0AX0	LOGO! CMR 2040 (4G Communication Module)	T4	T4	-20 °C to 70 °C
6GK7 177-1FA10-0AA0	LOGO! CSM 230	T4	T4	0 °C to 55 °C
6GK7 177-1MA20-0AA0	LOGO! CSM 1224	T4	T4	0 °C to 55 °C
** 6GK7 277-1AA10-a	Ethernet Switching Module CSM 1277 FS02-03	T4	T4	0 °C to 60 °C

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	Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
**	6GK7 543-1MX00-0XE0	Scalance Module Tele Control TIM 1531 IRC	T4	T4	0 °C to 70 °C
*	6GK7 545-1GX00-0XE0	CP1545-1, Communication Processor	T4	T4	0 °C to 60 °C

a = Options not affecting safety, any 1 to 4 digit alphanumeric code referring to non-electrical properties including documentation, delivery packing, language, and product associates, etc.

In type of protection nonincendive equipment, the programmable controller system component (6NH3 Series) equipment is designated with the following model code(s).

6NH3 Series, Communication Network Components

	Model Number	Description	T-Code ¹⁾	T-Code ²⁾	T-ambient
	6NH3 112-3BA00-1XX2	Battery Module for SIMATIC RTU30xxC	T4	T4	-40 °C to 70 °C
	6NH3 112-3BA00-1XX6	Battery Extension Module for SIMATIC RTU30xxC	T4	T4	-40 °C to 70 °C

13. Specific Conditions of Use:

In type of protection nonincendive equipment, the programmable controller system component (6GK1 Series) equipment is designated with the following specific conditions of use.

1. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.
2. The maximum ambient temperature is reduced to +50 °C when mounted vertically.

In type of protection nonincendive equipment, the programmable controller system component (6GK5 Series) equipment is designated with the following specific conditions of use.

1. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.
2. The maximum ambient temperature of modules marked with an asterisk (*) are reduced +10 °C when mounted vertically, face-up, face-down, and upside-down.
3. The maximum ambient temperature of modules marked with an asterisk (**) are reduced +5 °C when mounted vertically.

In type of protection nonincendive equipment, the programmable controller system component (6GK7 Series) equipment is designated with the following specific conditions of use.

1. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.
2. The maximum ambient temperature of modules marked with an asterisk (*) are reduced to +40 °C when mounted vertically.
3. The maximum ambient temperature of modules marked with an asterisk (**) are reduced to +50 °C when mounted vertically.

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In type of protection nonincendive equipment, the programmable controller system component (6NH3 Series) equipment is designated with the following specific conditions of use.

1. The equipment shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.
2. The maximum ambient temperature is reduced to +60 °C when mounted vertically.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings:**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History:**

Details of the supplements to this certificate are described below:

Date	Description
24 th January 2020	Original Issue.
24 th January 2020 to 9 th September 2021	<u>Supplement 1 to 10:</u> See certificate dated 9 th September 2021 for details.
24 th October 2021	<u>Supplement 11:</u> Report Reference: PR459710, dated 24 th November 2021. Description of the Change: Addition of the Scalance XC206-2G PoE, XC206-2G PoE EEC and XC208G PoE modules. Assembly document and model code update.
24 th October 2021	<u>Supplement 12:</u> Report Reference: PR460617, dated 24 th November 2021. Description of the Change: Addition of the Scalance LPE9403 module. Assembly document and model code update.
14 th July 2022	<u>Supplement 13:</u> Report Reference: RR233344, dated 14 th July 2022. Description of the Change: Addition of the Scalance XB004-2LD module. Assembly document and model code update. Administrative update to the standards update.
24 th January 2023	<u>Supplement 14:</u> Report Reference: PR461114, dated 24 th January 2023. Description of the Change: Addition of the Scalance XC216-3G PoE module. Assembly document and model code update. Administrative update to the standards update.
4 th June 2023	<u>Supplement 15:</u> Report Reference: PR463952, dated 4 th June 2023. Description of the Change: Addition of the Scalance XC300 modules. Assembly document and model code update. Administrative update to the standards update.

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