

Project design in STEP 7

SIPLUS S7-300 modules are not included in the hardware catalog. Please design your plant based on the relevant "standard" modules shown in the table below.

SIPLUS S7-300 Modules

This following table contains all SIPLUS S7-300 modules available at the time of publication. In addition, we included the order numbers of the corresponding "standard" modules to support project design. You can refer to specifications and technical data in the special "standard" module section.

You'll find more information on SIPLUS and contact partners in the Internet

(<http://www.siemens.com/siplus-extreme>).

Table 1-2 Comparison of SIPLUS S7-300 modules and S7-300 "Standard" module

Module type	SIPLUS S7-300 modules for the use under extended environmental conditions	"Standard" modules
	as of order no.	
Power supply PS 305; 2A PS 307; 5A PS 307; 10A	6AG1305-1BA80-2AA0 6AG1307-1EA80-2AA0 6AG1307-1KA02-7AA0	6ES7305-1BA80-0AA0 6ES7307-1EA80-0AA0 6ES7307-1KA02-0AA0
Interface module IM 153-1 IM 365	6AG1153-1AA03-2XB0 6AG1365-0BA01-2AA0	6ES7153-1AA03-0XB0 6ES7365-0BA01-0AA0
Separator module	6AG1195-7KF00-2XA0	6ES7195-7KF00-0XA0
Central module CPU 312C (EN50155) CPU 312C CPU 313C (EN50155) CPU 313C CPU 313C-2DP (EN50155) CPU 313C-2DP CPU 314 (EN50155) CPU 314 CPU 314C CPU 314C-2DP (EN50155) CPU 314C-2DP CPU314C-2PN/DP CPU 315-2DP (EN50155) CPU 315-2DP CPU 315-2PN/DP (EN50155) CPU 315-2PN/DP CPU 315F-2PN/DP CPU 315F-2PN/DP (EN50155) CPU 315F-2DP CPU 315F-2DP (EN50155) CPU 317-2PN/DP (EN50155) CPU 317-2PN/DP CPU 317F-2PN/DP CPU 317F-2PN/DP (EN50155) CPU 317F-2DP	6AG1312-5BF04-2AY0 6AG1312-5BF04-7AB0 6AG1313-5BG04-2AY0 6AG1313-5BG04-7AB0 6AG1313-6CG04-2AY0 6AG1313-6CG04-7AB0 6AG1314-1AG14-2AY0 6AG1314-1AG14-7AB0 6AG1314-6BH04-7AB0 6AG1314-6CH04-2AY0 6AG1314-6CH04-7AB0 6AG1314-6EH04-7AB0 6AG1315-2AH14-2AY0 6AG1315-2AH14-7AB0 6AG1315-2EH14-2AY0 6AG1315-2EH14-7AB0 6AG1315-2FJ14-2AB0 6AG1315-2FJ14-2AY0 6AG1315-6FF04-2AB0 6AG1315-6FF04-2AY0 6AG1317-2EK14-2AY0 6AG1317-2EK14-7AB0 6AG1317-2FK14-2AB0 6AG1317-2FK14-2AY0 6AG1317-6FF04-2AB0	6ES7312-5BF04-0AB0 6ES7312-5BF04-0AB0 6ES7313-5BG04-0AB0 6ES7313-5BG04-0AB0 6ES7313-6CG04-0AB0 6ES7313-6CG04-0AB0 6ES7314-1AG14-0AB0 6ES7314-1AG14-0AB0 6ES7314-6BH04-0AB0 6ES7314-6CH04-0AB0 6ES7314-6CH04-0AB0 6ES7314-6EH04-0AB0 6ES7315-2AH14-0AB0 6ES7315-2AH14-0AB0 6ES7315-2EH14-0AB0 6ES7315-2EH14-0AB0 6ES7315-2FJ14-0AB0 6ES7315-2FJ14-0AB0 6ES7315-6FF04-0AB0 6ES7315-6FF04-0AB0 6ES7317-2EK14-0AB0 6ES7317-2EK14-0AB0 6ES7317-2FK14-0AB0 6ES7317-2FK14-0AB0 6ES7317-6FF04-0AB0

1.8 Environmental conditions for the operation of SIPLUS S7-300 modules

Mechanical environmental conditions

Application class: to IEC 721-3-3.

Test of mechanical environmental conditions

The table provides information on the type and scope of the test of mechanical environmental conditions for SIPLUS S7-300 modules.

Table 1-3 SIPLUS S7-300 Modules: Test of mechanical environmental conditions

Condition tested	Test Standard	Remarks
Vibration	Vibration test acc. to IEC 60068-2-6 (sinusoidal)	Type of oscillation: Frequency sweep at a rate of change of 1 octave/minute. 5 Hz ≤ f ≤ 9 Hz, constant Amplitude 3.5 mm 9 Hz ≤ f ≤ 150 Hz, constant Acceleration 1 g duration of oscillation: 10 frequency sweeps at each of three vertically aligned axes
Shock	Shock, tested acc. to IEC 60068-2-27	Type of shock: Half-sine Severity of shock: 15 g peak value, 11 ms duration Direction of shock: 3 shocks each in +/- direction in each of the three vertically aligned axes

Environmental conditions

Operating category: to IEC 721-3-3.

The SIPLUS S7-300 modules may also be used under the following climatic, chemical, biological and mechanical environmental conditions:

Table 1-4 SIPLUS S7-300 Modules: Environmental conditions

Environmental conditions	Permitted range
Temperature: Horizontal mounting position: Vertical mounting position:	-25 °C to +60 °C/70°C 0°C to +40 °C
Relative humidity	5 ... 100 %, condensation / condensation allowed
Resistance against biologically active substances	Conformity with EN 60721-3-3, mildew, fungi and sponge spores (excluding fauna)
Resistance against chemically active substances	Conformity with EN 60721-3-3
Resistance against mechanically active substances	Conformity with EN 60721-3-3, incl. conductive sand, dust ²⁾
Air pressure in relation to ambient temperature - air pressure - installation altitude	- 25 ... +60/70 °C at 1140 ... 795 hPa Δ -1000 ... +2000 m - 25 ... +50/60°C at 795 ... 658 hPa Δ +2000 ... +3500 m - 25 ... +40/50°C at 658 ... 540 hPa Δ +3500 ... +5000 m
Certificate of suitability as approval for rail application	--> Partly EN 50155 T1 Cat1 CI A/B

1) ISA-71.04 severity level GX: Dauerbelastung/long-term load: SO₂ < 4.8 ppm; H₂S < 9.9 ppm; Cl < 0.2 ppm; HCl < 0.66 ppm; HF < 0.12 ppm; NH < 49 ppm; O₃ < 0.1 ppm; NO_x < 5.2 ppm

2) When operated in harmful gas environments, the supplied plug covers must remain on the non-used port.