S7-300

Programmable Logic Controller

FEATURE

- Modular mini PLC system for low and medium performance ranges
- With a comprehensive range of modules for optimal adaptation to automation tasks
- Flexible use through simple implementation of distributed structures and versatile networking
- Easy handling and uncomplicated fanless design
- Can be expanded without problems as tasks increase
- Robust thanks to a wide variety of integrated functions

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General technical specifications

Degree of protection	IP20 according to IEC 60 529
Ambient temperature	For horizontal installation : 0 to 60 °C For vertical installation : 0 to 40 °C
Relative humidity	10 to 95%, non-condensing, corresponds to relative humidity (RH), stress level 2 acc. to IEC 61131, Part 2
Air pressure	From 1080 to 795 hPa (corresponds to an altitude of -1000 to +2000 m)
Insulation	< 50 V : 500 V DC test voltage < 150 V : 2500 V DC test voltage < 250 V : 4000 V DC test voltage
Electromagnetic compatibility	Requirements of the EMC directive; interference immunity according to IEC 61000-6-2 >> Pulse-shaped disturbance variables. Test according to: > Electrostatic discharge according to IEC 61000-4-2 > Burst pulses according to IEC 61000-4-4 > Energy single pulse (surge) according to IEC 61000-4-5 >> Sinusoidal disturbance variables. Test according to: > HF irradiation according to IEC 61000-4-3 > HF decoupling according to IEC 61000-4-6 >> Emission of radio interference. Interference emission according to EN 50081-2. Test according to: >Emitted interference of electromagnetic fields according to EN 55016: Limit value class A, (measured at a distance of 10 m) > Interference emission via AC mains according to EN 55011: Limit value class A, Group 1

The modular and fanless design, simple implementation of distributed structures, and convenient handling make the S7-300 a cost-effective and user-friendly solution for the most diverse tasks in the low and medium performance ranges. Application areas for the SIMATIC S7-300 include: Special-purpose machines; Textile machines; Packaging machines; General mechanical equipment manufacturing; Control buildings / Control rooms; Machine tool manufacturing; Installation systems; Electrical/electronics industry and skilled trades.