



SIPLUS S120 Control Unit CU310-2 PN based on 6SL3040-1LA01-0AA0 with conformal coating, -20...+55 °C, with PROFINET interface without CompactFlash card

General information	
Product type designation	CU310-2 PN
based on	6SL3040-1LA01-0AA0
Product function	
• V/f control with linear/square parameterization capability	No
• V/f control with ECO mode linear/square	No
• V/f control with flux current control	No
• Vector control with encoder	No
• Vector control without encoder	Yes
Supply voltage	
Operating voltage from Power Module	24 V
Operating voltage from external power supply, min.	20.4 V
Operating voltage from external power supply, max.	28.8 V
Input current	
Current consumption, max.	0.3 A
Power loss	
Power loss, max.	20 W
Digital inputs	
Number of digital inputs	11; According to IEC 61131-2 type 1, 5 floating digital inputs, 8 bidirectional non-floating digital inputs/outputs, 3 parameterizable failsafe digital inputs (electrically isolated) or, alternatively, 6 parameterizable digital inputs (electrically isolated)
• With fail-safe	3; Optionally parameterizable as safe inputs
Analog inputs	
Number of analog inputs	1; the differential analog inputs can be configured as supplementary digital inputs
Type of analog input	Differential input
Interfaces	
Number of PROFINET interfaces	2
Number of RS 485 interfaces	0
Protocols	
PROFIBUS	No
Isolation	
Type of protective insulation	PELV according to EN 50178, safe disconnection from the mains by double/reinforced isolation
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Certificate of suitability	CE / TÜV
Ambient conditions	
Ambient temperature during operation	

• min. • max. • min. [°F] • max. [°F] • Remark	-20 °C; = Tmin 55 °C; = Tmax -4 °F 131 °F A derating of 3 K/1 000 m has to be applied to the Control Units from an installation altitude of 1 000 m above sea level
Ambient temperature during storage/transportation	
• Storage, min. • Storage, max. • Storage, min. [°F] • Storage, max. [°F]	-40 °C 70 °C -40 °F 158 °F
Relative humidity	
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance	
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	No
Usage in industrial process technology	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
• Coatings for printed circuit board assemblies acc. to EN 61086 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Class 2 for high reliability Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A
connection method	
Type of electrical connection for signal line	
• Connectable conductor cross-section for signal line, min. • Connectable conductor cross-section for signal line, max. • Connectable conductor cross-section for AWG cables, min. • Connectable conductor cross-section for AWG cables, max.	0.05 mm ² 1.5 mm ² 30 16
Dimensions	
Width	73 mm
Height	191 mm
Depth	75 mm
Weights	
Weight (without packaging)	0.95 kg

last modified:

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