

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



Figure similar

General information

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

Input 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
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Power loss

Power loss, max.	20 W
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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)
<ul style="list-style-type: none"> • With fail-safe 	3; Optionally parameterizable as safe inputs
Digital outputs	
Number of digital outputs	
<ul style="list-style-type: none"> • As transistor 	0
<ul style="list-style-type: none"> • As relay change-over contact 	0
Analog inputs	
Number of analog inputs	1; The differential analog inputs can be configured as supplementary digital inputs
Type of analog input	Differential input
Input voltage with signal "0" to "1"	0 V
Interfaces	
Number of PROFINET interfaces	2
Number of RS 485 interfaces	0
Protocols	
PROFIBUS	No
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Certificate of suitability	CE / TÜV
Verification of suitability for CE marking	Low Voltage Directive 2014/30/EU and 2014/35/EU
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. 	-20 °C; = Tmin
<ul style="list-style-type: none"> • max. 	55 °C; = Tmax
<ul style="list-style-type: none"> • min. [°F] 	-4 °F
<ul style="list-style-type: none"> • max. [°F] 	131 °F
<ul style="list-style-type: none"> • Remark 	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	
<ul style="list-style-type: none"> • Storage, min. 	-40 °C
<ul style="list-style-type: none"> • Storage, max. 	70 °C
<ul style="list-style-type: none"> • Storage, min. [°F] 	-40 °F
<ul style="list-style-type: none"> • Storage, max. [°F] 	158 °F
Relative humidity	

<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high availability
<ul style="list-style-type: none"> • Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
<ul style="list-style-type: none"> • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Connection method	
Type of electrical connection for signal line	
<ul style="list-style-type: none"> • Connectable conductor cross-section for signal line, min. 	0.05 mm ²
<ul style="list-style-type: none"> • Connectable conductor cross-section for signal line, max. 	1.5 mm ²
<ul style="list-style-type: none"> • Connectable conductor cross-section for AWG cables, min. 	30
<ul style="list-style-type: none"> • Connectable conductor cross-section for AWG cables, max. 	16
Dimensions	
Width	73 mm
Height	191 mm
Depth	75 mm
Weights	
Weight (without packaging)	0.95 kg

last modified:

11/25/2019