



Figure similar

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	
<ul style="list-style-type: none"> • V/f control with linear/square parameterization capability 	No
<ul style="list-style-type: none"> • V/f control with ECO mode linear/square 	No
<ul style="list-style-type: none"> • V/f control with flux current control 	No
<ul style="list-style-type: none"> • Vector control with encoder 	No
<ul style="list-style-type: none"> • 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)
<ul style="list-style-type: none"> • 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.		-20 °C; = Tmin	
• max.		55 °C; = Tmax	
• min. [°F]		-4 °F	
• max. [°F]		131 °F	
• 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			
• Storage, min.		-40 °C	
• Storage, max.		70 °C	
• Storage, min. [°F]		-40 °F	
• Storage, max. [°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		Yes; Class 2 for high reliability	
• Military testing according to MIL-I-46058C, Amendment 7		Yes; Discoloration of coating possible during service life	
• 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			
• Connectable conductor cross-section for signal line, min.		0.05 mm ²	
• Connectable conductor cross-section for signal line, max.		1.5 mm ²	
• Connectable conductor cross-section for AWG cables, min.		30	
• 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	
Classifications			
		Version	Classification
	eClass	14	27-02-31-50
	eClass	12	27-02-31-50
	eClass	9.1	27-02-31-50
	eClass	9	27-02-31-01
	eClass	8	27-02-31-01

eClass	7.1	27-02-31-01
eClass	6	27-02-31-01
ETIM	10	EC001857
ETIM	9	EC001857
ETIM	8	EC001857
ETIM	7	EC001857
IDEA	4	5208
UNSPSC	15	39-12-22-14

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[China RoHS](#)



[China RoHS](#)

General Product Approval EMV Functional Safety Test Certificates



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