SIEMENS

Data sheet

6AG1244-0BB12-2FA0



SIPLUS G120 CU240E-2 PN based on 6SL3244-0BB12-1FA0 with conformal coating, -20...+55 °C, Control Unit CU240E-2 PN E-type with Safety Integrated STO PROFINET 6 DI, 3 DQ, 2 AI, 2 AQ, max. 1F-DI PTC/KTY interface USB and SD/MMC interface degree of protection IP20 without Power Module

Product type designation based on 6SL3244.0BB12-1FA0 Product function • Vif control with linear/square parameterization capability • Vif control with linear/square parameterization capability • Vif control with linear/square yes • Vef control with sucurent control • Vector control with outer control • As relay change-over contact • As relay change-ove	General information	
Product function • Vif control with linear/square parameterization capability • Vif control with ECO mode linear/square • Vif control with ECO mode linear/square • Vif control with ECO mode linear/square • Vector control with encoder • Vector control without encoder • Vector control without encoder • Vector control without encoder Poperating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, max. Input curront Current consumption, max. O.5 A Power loss, max. Digital inputs Number of digital inputs • With fail-safe Digital outputs • As transistor • As transistor • As relay change-over contact Analog inputs Number of analog input Type of analog input Type of analog input Power loss Input voltage with signal "0" to "1" 4 V Input voltage with signal "1" to "0" 1.6 V Analog value generation for the inputs AD resolution 1 ob it Interfaces Number of PROFINET interfaces 2	Product type designation	CU240E-2 PN
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Vif control with ECO mode linear/square Ves Vif control with flux current control Ves Vector control with encoder Ves Vector control with encoder Ves Supply voltage Operating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, max. Input current Current consumption, max. Digital inputs Vift fail-safe Digital outputs Number of digital outputs As relay change-over contact As relay change-over contact 2 Analog inputs Type of analog input Input voltage with signal "0" to "1" Input voltage with signal "1" to "0" A rate of analog outputs Input voltage with signal "1" to "0" A rate of analog outputs Input voltage with signal "1" to "0" A rate of analog outputs Input voltage with signal "1" to "0" A rate of analog outputs Input voltage with signal "1" to "0" A rate of analog outputs Input voltage with signal "1" to "0" A rate of analog outputs Number of analog outputs Vere Ves Ves Ves Ves Ves Ves V	Product function	
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Vector control with encoder Vector control without encoder Ves Supply voltage Operating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, min. Operating voltage from external power supply, min. Operating voltage from external power supply, max. Operating voltage from external power supply. Operating voltage from external power supply. Operating voltage inputs Operating voltage from external power supply. Operating voltage inputs Operating voltage from external power supply. Operating voltage	 V/f control with ECO mode linear/square 	Yes
• Vector control without encoder Supply voltage Operating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, max. 28.8 V Input current Current consumption, max. O.5 A Power loss, max. Fower loss, max. Digital inputs Number of digital inputs • With fall-safe Digital outputs Number of digital outputs • As transistor • As relay change-over contact Analog inputs Number of analog input Type of analog input Type of analog input Remark Switchable between voltage (-10 +10 V) and current (0/4 20 mA) using a DIP switch Input voltage with signal "0" to "1" A V Analog outputs Number of analog outputs Switchable between voltage (-10 +10 V) and current (0/4 20 mA) using a DIP switch Input voltage with signal "1" to "0" Analog outputs Number of analog outputs A DI resolution Input solution Input voltage with signal "1" to "0" A Paleog value generation for the inputs AD resolution In bit Interfaces Number of PROFINET interfaces 2	 V/f control with flux current control 	Yes
Operating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, min. Operating voltage from external power supply, max. Input current Current consumption, max. O.5 A Power loss Power loss, Power loss, Operating voltage from external power supply, max. Input supply	 Vector control with encoder 	No
Operating voltage from Power Module Operating voltage from external power supply, min. Operating voltage from external power supply, min. Operating voltage from external power supply, max. Description of the consumption, max. Operating voltage from external power supply, max. Operating voltage from external power supply. Operati	 Vector control without encoder 	Yes
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Input current Current consumption, max. Current consumption, max. Digital inputs Number of digital inputs • With fail-safe • With fail-safe 1; Use of 2x DI Standard Digital outputs Number of digital outputs • As transistor • As relay change-over contact Analog inputs Number of analog inputs Type of analog input Remark Power of analog input Remark Differential input Switchable between voltage (-10 +10 V) and current (0/4 20 mA) using a DIP switch Input voltage with signal "0" to "1" 4 V Input voltage with signal "1" to "0" Analog outputs Number of analog outputs 2 Analog value generation for the inputs AD resolution 10 bit Interfaces Number of PROFINET interfaces 2	Operating voltage from external power supply, min.	20.4 V
Current consumption, max. Power loss Power loss, max. 5.5 W Digital inputs Number of digital inputs • With fail-safe Digital outputs Number of digital outputs Number of digital outputs Number of digital outputs • As transistor • As realy change-over contact Analog inputs Number of analog inputs 1; Use of 2x DI Standard Digital outputs • As transistor • As realy change-over contact 2 Analog inputs Number of analog inputs Differential analog inputs can be configured as supplementary digital inputs Type of analog input Remark Switchable between voltage (-10 +10 V) and current (0/4 20 mA) using a DIP switch Input voltage with signal "0" to "1" 4 V Input voltage with signal "4" to "0" Analog outputs Number of analog outputs Analog value generation for the inputs A/D resolution 10 bit Interfaces Number of PROFINET interfaces 2	Operating voltage from external power supply, max.	28.8 V
Power loss Power loss, max. Digital inputs Number of digital inputs • With fail-safe Digital outputs Number of digital outputs Number of digital outputs Number of digital outputs • As transistor • As ransistor • As ransistor Number of analog inputs Number of analog inputs 1; Use of 2x DI Standard 1 • As ransistor • As ransistor • 1 • As relay change-over contact Analog inputs Number of analog inputs 1; Use of 2x DI Standard 2 Analog inputs Number of analog inputs Differential analog inputs can be configured as supplementary digital inputs Type of analog input Remark Switchable between voltage (-10 +10 V) and current (0/4 20 mA) using a DIP switch Input voltage with signal "0" to "1" 4 V Input voltage with signal "4" to "0" 1.6 V Analog outputs Number of analog outputs A/D resolution 10 bit Interfaces Number of PROFINET interfaces 2	Input current	
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Analog outputs Number of analog outputs Analog value generation for the inputs A/D resolution Interfaces Number of PROFINET interfaces 2	Input voltage with signal "0" to "1"	4 V
Number of analog outputs 2 Analog value generation for the inputs A/D resolution 10 bit Interfaces Number of PROFINET interfaces 2	Input voltage with signal "1" to "0"	1.6 V
Analog value generation for the inputs A/D resolution 10 bit Interfaces Number of PROFINET interfaces 2	Analog outputs	
A/D resolution 10 bit Interfaces Number of PROFINET interfaces 2	Number of analog outputs	2
Interfaces Number of PROFINET interfaces 2	Analog value generation for the inputs	
Number of PROFINET interfaces 2	A/D resolution	10 bit
	Interfaces	
Number of RS 485 interfaces 0	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	40.00
Storage, min. Charges may	-40 °C
• Storage, max.	70 °C
• Storage, min. [°F]	-40 °F
Storage, max. [°F] Polative hymidity	158 °F
Relative humidity	100 % PH incl. condensation/frost /no commissioning under condensation
 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 mm²
Connectable conductor cross-section for signal line, max.	1.5 mm ²
Connectable conductor cross-section for AWG cables,	30
 min. Connectable conductor cross-section for AWG cables, max. 	16
max. Dimensions	
	73 mm
Width	73 mm
Height	199 mm 46 mm
Depth Weights	THIII OF
Weight (without packaging)	0.49 kg
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