



Figure similar

SIPLUS G120 CU250S-2 PN based on 6SL3246-0BA22-1FA0 with conformal coating, -20...+50 °C, integrates PROFINET supports vector control basic positioner EPOS via license extended functions 4 configurable DI/DO modules 6 DI (3 F-DI), 5 DI 3 DQ (1 F-DQ) 2 AI, 2 AQ Safety Integrated STO, SBC, SS1 encoder interface: D-CLiQ+HTL/TTL/SSI resolver/HTL via terminal degree of protection IP20

| General information | |
|--|---|
| Product type designation | CU250S-2 PN |
| based on | 6SL3246-0BA22-1FA0 |
| Product function | |
| • V/f control with linear/square parameterization capability | Yes |
| • V/f control with ECO mode linear/square | Yes |
| • V/f control with flux current control | Yes |
| • 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. | 1.5 A |
| Power loss | |
| Power loss, max. | 12 W |
| Digital inputs | |
| Number of digital inputs | 11; Optically isolated, free reference potential (own potential group), NPN/PNP-logic selectable via wiring |
| • With fail-safe | 1; Use of 2x DI Standard |
| Digital outputs | |
| Number of digital outputs | |
| • As transistor | 4 |
| • As relay change-over contact | 3 |
| Analog inputs | |
| Number of analog inputs | 2; the differential analog inputs can be configured as supplementary digital inputs |
| Type of analog input | Differential input |
| Remark | switchable between voltage (-10 ... +10 V) and current (0 ... 20 mA) using a DIP switch |
| Input voltage with signal "0" to "1" | 4 V |
| Input voltage with signal "1" to "0" | 1.6 V |
| Analog outputs | |
| Number of analog outputs | 2 |
| Analog value generation for the inputs | |
| A/D resolution | 13 bit |
| 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 | |
| <ul style="list-style-type: none"> • min. • max. • min. [°F] • max. [°F] • Remark | <p>-20 °C; = Tmin</p> <p>50 °C; = Tmax</p> <p>-4 °F</p> <p>122 °F</p> <p>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</p> |
| Ambient temperature during storage/transportation | |
| <ul style="list-style-type: none"> • Storage, min. • Storage, max. • Storage, min. [°F] • Storage, max. [°F] | <p>-40 °C</p> <p>70 °C</p> <p>-40 °F</p> <p>158 °F</p> |
| 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 when condensation present), vertical mounting position |
| Resistance | |
| Use in stationary industrial systems | |
| <ul style="list-style-type: none"> — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 | <p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request</p> <p>Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *</p> <p>No</p> |
| Usage in industrial process technology | |
| <ul style="list-style-type: none"> — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | <p>Yes; Class 3 (excluding trichlorethylene)</p> <p>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)</p> |
| Remark | |
| <ul style="list-style-type: none"> — 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 • Protection against fouling acc. to EN 60664-3 • 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 | <p>Yes; Class 2 for high reliability</p> <p>Yes; Type 1 protection</p> <p>Yes; Discoloration of coating possible during service life</p> <p>Yes; Conformal coating, Class A</p> |
| Connection method | |
| Type of electrical connection for signal line | |
| <ul style="list-style-type: none"> • 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. | <p>0.05 mm²</p> <p>1.5 mm²</p> <p>30</p> <p>16</p> |
| Dimensions | |
| Width | 73 mm |

| | |
|----------------------------|---------|
| Height | 199 mm |
| Depth | 63 mm |
| Weights | |
| Weight (without packaging) | 0.49 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 | Functional Safety | Test Certificates |



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