SIEMENS

Data sheet

6AG1215-1BG40-5XB0



SIPLUS S7-1200 CPU 1215C AC/DC/relay based on 6ES7215-1BG40-0XB0 with conformal coating, -40...+60 °C, start up -25 °C, compact CPU, AC/DC/relay, 2 PROFINET ports onboard I/O: 14 DI 24 V DC; 10 DQ relay 2 A; 2 AI 0-10 V DC, 2 AQ 0-20 mA DC power supply: AC 85-264 V AC @ 47-63 Hz, program/data memory 125 KB

| General information | |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation | CPU 1215C AC/DC/relay |
| Firmware version | V4.1 |
| based on | 6ES7215-1BG40-0XB0 |
| Engineering with | |
| STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275 |
| Supply voltage | |
| Rated value (AC) | |
| • 120 V AC | Yes |
| • 230 V AC | Yes |
| permissible range, lower limit (AC) | 85 V |
| permissible range, upper limit (AC) | 265 V |
| Line frequency | |
| permissible range, lower limit | 47 Hz |
| permissible range, upper limit | 63 Hz |
| Input current | |
| Current consumption (rated value) | 100 mA at 120 V AC; 50 mA at 240 V AC |
| Current consumption, max. | 300 mA at 120 V AC; 150 mA at 240 V AC |
| Inrush current, max. | 20 A; at 264 V |
| Encoder supply | |
| 24 V encoder supply | |
| • 24 V | 20.4 to 28.8V |
| Power loss | |
| Power loss, typ. | 12 W |
| Memory | |
| Work memory | |
| integrated | 100 kbyte |
| Load memory | |
| integrated | 4 Mbyte |
| Plug-in (SIMATIC Memory Card), max. | with SIMATIC memory card |
| Backup | |
| • present | Yes; maintenance-free |
| without battery | Yes |
| CPU processing times | |
| for bit operations, typ. | 0.085 μs; / instruction |
| for word operations, typ. | 1.7 µs; / instruction |
| for floating point arithmetic, typ. | 2.5 µs; / instruction |
| CPU-blocks | |
| Number of blocks (total) | DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65535. There is no restriction, the entire working |

| | memory can be used |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| OB | memory can be used |
| Number, max. | Limited only by RAM for code |
| Data areas and their retentivity | |
| Retentive data area (incl. timers, counters, flags), max. | 10 kbyte |
| Flag | 10 KDyte |
| • Size, max. | 8 kbyte; Size of bit memory address area |
| Address area | |
| Process image | |
| Inputs, adjustable | 1 kbyte |
| Outputs, adjustable | 1 kbyte |
| Hardware configuration | i koyic |
| Number of modules per system, max. | 3 comm. modules, 1 signal board, 8 signal modules |
| Time of day | 5 comm. modules, i signal board, o signal modules |
| | |
| Clock | Yes |
| Hardware clock (real-time) | |
| Backup time Deviation per day, max | 480 h; Typical ±60 s/month at 25 °C |
| Deviation per day, max. | ±60 s/month at 25°C |
| Digital inputs | |
| Number of digital inputs | 14; Integrated |
| of which inputs usable for technological functions | 6; HSC (High Speed Counting) |
| Source/sink input | Yes |
| Number of simultaneously controllable inputs | |
| all mounting positions | 44 |
| — up to 40 °C, max. | 14 |
| Input voltage | |
| • Rated value (DC) | 24 V |
| • for signal "0" | 5 V DC at 1 mA |
| • for signal "1" | 15 V DC at 2.5 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four |
| — at "0" to "1", min. | 0.2 ms |
| — at "0" to "1", max. | 12.8 ms |
| for interrupt inputs | |
| — parameterizable | Yes |
| for technological functions | |
| — parameterizable | Yes; Single phase : 3 at 100 kHz & 3 at 30 kHz, differential: 3 at 80 kHz & 3 at 30 kHz |
| Cable length | |
| shielded, max. | 500 m; 50 m for technological functions |
| • unshielded, max. | 300 m; for technological functions: No |
| Digital outputs | |
| Number of digital outputs | 10; Relays |
| Switching capacity of the outputs | |
| with resistive load, max. | 2 A |
| ● on lamp load, max. | 30 W with DC, 200 W with AC |
| Output delay with resistive load | |
| • "0" to "1", max. | 10 ms; max. |
| • "1" to "0", max. | 10 ms; max. |
| Switching frequency | |
| of the pulse outputs, with resistive load, max. | 1 Hz |
| Relay outputs | |
| Number of relay outputs | 10 |
| Number of operating cycles, max. | mechanically 10 million, at rated load voltage 100 000 |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 150 m |
| Analog inputs | |
| Number of analog inputs | 2 |
| | |

| Input ranges | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage | Yes |
| · | |
| Input ranges (rated values), voltages | Ver |
| • 0 to +10 V | Yes |
| — Input resistance (0 to 10 V) | ≥100k ohms |
| Cable length | |
| shielded, max. | 100 m; twisted and shielded |
| Analog outputs | |
| Number of analog outputs | 2 |
| Output ranges, current | |
| • 0 to 20 mA | Yes |
| Analog value generation for the inputs | |
| Integration and conversion time/resolution per channel | |
| Resolution with overrange (bit including sign), max. | 10 bit |
| Integration time, parameterizable | Yes |
| Conversion time (per channel) | 625 µs |
| Analog value generation for the outputs | |
| Integration and conversion time/resolution per channel | |
| Resolution with overrange (bit including sign), max. | 10 bit |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| 1. Interface | |
| Interface type | PROFINET |
| Isolated | Yes |
| automatic detection of transmission rate | Yes |
| Autonegotiation | Yes |
| Autorossing | Yes |
| Interface types | |
| RJ 45 (Ethernet) | Yes |
| | 163 |
| | |
| Protocols | Ver |
| Protocols PROFINET IO Controller | Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device | Yes Yes; Also simultaneously with IO-Device functionality |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller | Yes; Also simultaneously with IO-Device functionality |
| Protocols PROFINET IO Controller PROFINET IO Device PROFINET IO Controller Transmission rate, max. | |
| Protocols PROFINET IO Controller PROFINET IO Device PROFINET IO Controller Transmission rate, max. Services | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s |
| Protocols PROFINET IO Controller PROFINET IO Device PROFINET IO Controller Transmission rate, max. Services — Number of connectable IO Devices, max. | Yes; Also simultaneously with IO-Device functionality |
| Protocols PROFINET IO Controller PROFINET IO Device PROFINET IO Controller Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device Services | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device Services — Services — Shared device | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device Services — Services — Shared device | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device Services — Shared device — Number of IO Controllers with shared device, max. Protocols | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIsafe | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Device PROFINET IO Controller • Transmission rate, max. Services — Number of connectable IO Devices, max. PROFINET IO Device Services — Shared device — Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP • ISO-on-TCP (RFC1006) | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP Open Version • UDP | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP • ISO-on-TCP (RFC1006) • UDP Web server | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes Yes Yes Yes |
| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Number of connectable IO Devices, max. PROFINET IO Device Services - Shared device - Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP UDP Web server • supported • USer-defined websites | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes Yes |
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| Protocols • PROFINET IO Controller • PROFINET IO Controller • Transmission rate, max. Services Number of connectable IO Devices, max. PROFINET IO Device Services Number of connectable IO Devices, max. PROFINET IO Device Services Shared device Number of IO Controllers with shared device, max. Protocols Supports protocol for PROFINET IO PROFIBUS AS-Interface Protocols (Ethernet) • TCP/IP Open IE communication • TCP/IP • ISO-on-TCP (RFC1006) • UDP Web server • supported • User-defined websites Further protocols • MODBUS | Yes; Also simultaneously with IO-Device functionality 100 Mbit/s 16 Yes 2 Yes No Yes; CM 1243-5 required Yes Yes Yes Yes Yes Yes Yes |

| • as server | Yes |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| as client | Yes |
| Number of connections | |
| • overall | 16; dynamically |
| Test commissioning functions | |
| Status/control | |
| Status/control variable | Yes |
| Variables | Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters |
| Forcing | [····································· |
| Forcing | Yes |
| Diagnostic buffer | |
| • present | Yes |
| Traces | |
| Number of configurable Traces | 2; Up to 512 KB of data per trace are possible |
| Integrated Functions | |
| Counter | |
| Number of counters | 6 |
| Counting frequency, max. | 100 kHz |
| Frequency measurement | Yes |
| controlled positioning | Yes |
| Number of position-controlled positioning axes, max. | 8 |
| Number of positioning axes via pulse-direction interface | Up to 4 with SB 1222 |
| PID controller | Yes |
| Number of alarm inputs | 4 |
| Potential separation | |
| Potential separation digital inputs | |
| Potential separation digital inputs | 500V AC for 1 minute |
| between the channels, in groups of | 1 |
| Potential separation digital outputs | |
| Potential separation digital outputs | Relays |
| between the channels | No |
| between the channels, in groups of EMC | 2 |
| | |
| Interference immunity against discharge of static electricity | Vac |
| Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 | Yes |
| — Test voltage at air discharge | 8 kV |
| — Test voltage at contact discharge | 6 kV |
| Interference immunity to cable-borne interference | |
| • Interference immunity on supply lines acc. to IEC 61000- | Yes |
| 4-4 | |
| Interference immunity on signal cables acc. to IEC 61000- 4-4 | Yes |
| Interference immunity against voltage surge | |
| Interference immunity on supply lines acc. to IEC 61000- | Yes |
| 4-5 | |
| Interference immunity against conducted variable disturbance indu | ced by high-frequency fields |
| Interference immunity against high-frequency radiation | Yes |
| acc. to IEC 61000-4-6 | |
| Emission of radio interference acc. to EN 55 011 | Voc: Croup 1 |
| Limit class A, for use in industrial areas | Yes; Group 1 |
| Limit class B, for use in residential areas | Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011 |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C |
| • max. | 60 °C; = Tmax; Tmax > +55 °C number of simultaneously switched-on digital |
| | inputs 7, digital outputs 5, analog inputs 2, analog outputs 2 (no adjacent points) with horizontal mounting position |
| | points) with nonzontal mounting position |

| At cold restart, min. | -25 °C |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature during storage/transportation | -23 6 |
| • min. | -40 °C |
| • max. | 70 °C |
| Altitude during operation relating to sea level | |
| Installation altitude above sea level, max. | 2 000 m |
| Ambient air temperature-barometric pressure-altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax - 20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m); above 2 000 m max. 132 V AC |
| Relative humidity | |
| With condensation, tested in accordance with IEC 60068- 2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| Vibrations | $2 a (m/s^2)$ well mounting $1 a (m/s^2)$ DIN roll |
| Vibration resistance during operation acc. to IEC 60068- 2-6 | 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail Yes |
| Operation, tested according to IEC 60068-2-6 Shock testing | Tes |
| tested according to IEC 60068-2-27 | Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), |
| | duration 11 ms |
| Resistance | |
| Coolants and lubricants | |
| — Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air |
| 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 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| 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 |
| Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| 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 |
| configuration / header | |
| configuration / programming / header | |
| Programming language | |
| — LAD | Yes |
| — FBD | Yes |
| — SCL | Yes |
| programming / cycle time monitoring / header | |
| adjustable | Yes |
| Dimensions | |
| Width | 130 mm |
| Height | 100 mm |
| Depth | 75 mm |

| Weights | |
|-----------------|-------|
| Weight, approx. | 550 g |
| | |

last modified:

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