SIEMENS

Data sheet

6ES7211-1BE40-0XB0

SIMATIC S7-1200, CPU 1211C, compact CPU, AC/DC/relay, onboard I/O: 6 DI 24 V DC; 4 DO relay 2A; 2 AI 0-10 V DC, Power supply: AC 85-264 V AC at 47-63 Hz, Program/data memory 50 KB



General information		
Product type designation	CPU 1211C AC/DC/relay	
Firmware version	V4.2	
Engineering with		
Programming package	STEP 7 V14 or higher	
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)	264 V	
Line frequency		
 permissible range, lower limit 	47 Hz	
• permissible range, upper limit	63 Hz	
Input current		
Current consumption (rated value)	60 mA at 120 V AC; 30 mA at 240 V AC	
Current consumption, max.	180 mA at 120 V AC; 90 mA at 240 V AC	
Inrush current, max.	20 A; at 264 V	

Power loss, typ. 10 W Memory Work memory Integrated 50 kbyte expandable No Load memory Integrated 1 Mbyte expandable No Integrated Plug-in (SIMATIC Memory Card), max. With SIMATIC memory card Backup Present Yes expandable Yes expandable Without SIMATIC memory card Present Yes expandable Yes expandable No SIMATIC Memory Card, max. With SIMATIC memory card Present Yes expandable No SIMATIC Memory Card, max. With SIMATIC memory card Present Yes expandable No SIMATIC Memory Card New Yes expected No SIMATIC Memory Card New Yes expected No SIMATIC Memory Card New Yes expected New Yes expec	l²t	0.8 A ² ·s
For backplane bus (5 V DC), max. 750 mA; Max. 5 V DC for CM Encoder supply 24 V encoder supply 20.4 to 28.8V Power loss Power loss, typ. 10 W Memory Work memory • integrated • expandable • expandable Load memory • integrated • Plug-in (SIMATIC Memory Card), max. Backup • present • maintenance-free • without battery Power loss is girling from the pretainus, typ. 17 ys; / instruction CPU-blocks Number of blocks (total) Bas, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 66536. There is no restriction, the entire working memory can be used OB • Number, max. Limited only by RAM for code 16 kbyte, Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image	Output current	
20.4 to 28.8V Power loss Power loss, typ. 10 W Memory Work memory • Integrated • expandable No Load memory • Integrated So kbyte • Plug-in (SIMATIC Memory Card), max. With SIMATIC memory card Backup • present Yes • without battery Yes • without battery Yes * without battery No CPU processing times for bit operations, typ. 1.7 µs; / instruction for word operations, typ. 2.3 µs; / instruction CPU-blocks Number of blocks (total) DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks ranges from 1 to 65536. There is no restriction, the entire working memory can be used OB • Number, max. Limited only by RAM for code Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Number, max. 4 kbyte; Size of bit memory address area Local data • per priority class, max. 16 kbyte. Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB	·	750 mA; Max. 5 V DC for CM
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Power loss Power loss, typ. 10 W Memory Work memory Integrated 50 kbyte 80 kbyte		20.4 to 28.8V
Power loss, typ. 10 W Memory Work memory • integrated • expandable Load memory • integrated • Plug-in (SIMATIC Memory Card), max. with SIMATIC memory card Backup • present • present • maintenance-free • without battery Yes CPU processing times for bit operations, typ. 0.08 µs; / instruction for word operations, typ. 2.3 µs; / instruction for floating point arithmetic, typ. 2.3 µs; / instruction CPU-blocks Number of blocks (total) BBs, 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 • Number, max. Limited only by RAM for code Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Number, max. 4 kbyte, Size of bit memory address area Local data • per priority class, max. 16 kbyte, Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image		201.10 200.
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integrated Plug-in (SIMATIC Memory Card), max. Backup present prese	• expandable	No
Plug-in (SIMATIC Memory Card), max. Backup present	Load memory	
Backup • present • maintenance-free • without battery CPU processing times for bit operations, typ. for floating point arithmetic, typ. CPU-blocks Number of blocks (total) • Number, max. Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag • Number, max. Limited only by RAM for code 16 kbyte; Size of bit memory address area Local data • per priority class, max. Process image	• integrated	1 Mbyte
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For floating point arithmetic, typ. 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 Number, max. Limited only by RAM for code Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Number, max. 4 kbyte; Size of bit memory address area Local data per priority class, max. 16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image		0.08 μs; / instruction
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Retentive data area (incl. timers, counters, flags), max. Flag • Number, max. Local data • per priority class, max. 16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image	Number, max.	Limited only by RAM for code
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● Number, max. Local data ● per priority class, max. 16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image	max.	
Local data	Flag	
● per priority class, max. 16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB Address area Process image	Number, max.	4 kbyte; Size of bit memory address area
to 26: 6 KB Address area Process image	Local data	
Process image	● per priority class, max.	
	Address area	
• Inputs, adjustable 1 kbyte	Process image	
	Inputs, adjustable	1 kbyte

Outputs, adjustable	1 kbyte
Hardware configuration	
Number of modules per system, max.	3 communication modules, 1 signal board
Time of day	
Clock	
Hardware clock (real-time)	Yes
Backup time	480 h; Typical
• Deviation per day, max.	±60 s/month at 25 °C
Digital inputs	
Number of digital inputs	6; Integrated
 of which inputs usable for technological functions 	3; HSC (High Speed Counting)
Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	6
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 current	
● for signal "1", typ.	4 mA; nominal
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	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 counter/technological functions	
— parameterizable	Single phase : 3 @ 100 kHz, differential: 3 @ 80 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	4; 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.
Relay outputs	
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	2
	Yes
 Voltage Input ranges (rated values), voltages 	165
	Yes
• 0 to +10 V	
• Input resistance (0 to 10 V)	≥100k ohms
Cable length	400 my twisted and skielded
• shielded, max.	100 m; twisted and shielded
Analog outputs	
Number of analog outputs	0
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	10 bit
max.	
 Integration time, parameterizable 	Yes
 Conversion time (per channel) 	625 µs
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
1. Interface	PROFINET
Interface type	PROFINET
Physics Isolated	Ethernet Yes
automatic detection of transmission rate	Yes
	Yes
Autonegotiation Autocrossing	Yes
Interface types	163
Number of ports	1
	No
• integrated switch	110
Functionality • PROFINET IO Controller	Yes
PROFINET IO Controller	
PROFINET IO Device	Yes

SIMATIC communication	Yes
Open IE communication	Yes
• Web server	Yes
Media redundancy	No
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
 Open IE communication 	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	No
 Prioritized startup 	Yes
 Number of IO devices with prioritized 	16
startup, max.	
 Number of connectable IO Devices, max. 	16
 Number of connectable IO Devices for RT, 	16
max.	
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
Number of IO Devices that can be	8
simultaneously activated/deactivated, max.	
— Updating time	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number
	of IO devices and the quantity of configured user data.
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— S7 routing	Yes
— Isochronous mode	No
— Open IE communication	Yes
— IRT	No
— MRP	No
— MRPD	No
— PROFlenergy	Yes
— Shared device	Yes
 Number of IO Controllers with shared 	2
device, max.	

Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Open IE communication	
• TCP/IP	Yes
— Data length, max.	8 kbyte
 several passive connections per port, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
Web server	
User-defined websites	Yes
Further protocols	
• MODBUS	Yes
Communication functions	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
 User data per job, max. 	See online help (S7 communication, user data size)
Web server	
• supported	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
 Memory size per trace, max.
 512 kbyte

Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes

Integrated Functions	
Number of counters	3
Counting frequency (counter) 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 	1

EMC	
Interference immunity against discharge of static electric	city
 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 61000-4-4 	Yes
 Interference immunity on signal cables acc. to IEC 61000-4-4 	Yes
Interference immunity against voltage surge	
• on the supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance induced by high-frequency fields	
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes

Emission of radio interference acc. to EN 55 011 Yes; Group 1 • Limit class A, for use in industrial areas Yes; When appropriate measures are used to ensure compliance • Limit class B, for use in residential areas with the limits for Class B according to EN 55011 Degree and class of protection Degree of protection acc. to EN 60529 Yes IP20 Standards, approvals, certificates CE mark Yes **UL** approval Yes cULus Yes FM approval Yes RCM (formerly C-TICK) Yes KC approval Yes Marine approval Yes Ambient conditions Free fall 0.3 m; five times, in product package • Fall height, max. Ambient temperature during operation -20 °C • min. 60 °C • max. -20 °C • horizontal installation, min. 60 °C • horizontal installation, max. -20 °C • vertical installation, min. 50 °C • vertical installation, max. Ambient temperature during storage/transportation -40 °C • min. 70 °C • max. Air pressure acc. to IEC 60068-2-13 795 hPa • Operation, min. 1 080 hPa • Operation, max. 660 hPa • Storage/transport, min. 1 080 hPa • Storage/transport, max. Altitude during operation relating to sea level -1 000 m • Installation altitude, min. 2 000 m • Installation altitude, max. Relative humidity 95 %; no condensation • Operation, max. Vibrations • Vibration resistance during operation acc. to 2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail IEC 60068-2-6

	V ₂ -
Operation, tested according to IEC 60068-2-6	Yes
Shock testing	
 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
Pollutant concentrations	
• SO2 at RH < 60% without condensation	S02: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60% condensation-free
Configuration	
Programming	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
Know-how protection	
User program protection/password protection	Yes
 Copy protection 	Yes
Block protection	Yes
Access protection	
Protection level: Write protection	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Complete protection 	Yes
Cycle time monitoring	
● adjustable	Yes
Dimensions	
Width	90 mm
Height	100 mm
Depth	75 mm
Weights	
Weight, approx.	420 g
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