6ES7215-1HF40-0XB0

CPU 1215 FC, DC/DC/RLY,14DI/10DO/2AI/2AO

Technical data



SIMATIC S7-1200F, CPU 1215 FC, compact CPU, DC/DC/relay, 2 PROFINET ports, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A, 2 AI 0-10 V DC, 2 AO 0-20 mA DC, Power supply: DC 20.4-28.8 V DC, Program/data memory 150 KB

eneral information	
Product type designation	CPU 1215FC DC/DC/relay
Firmware version	V4.2
Engineering with	
Programming package	STEP 7 V14 or higher
upply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
oad voltage L+	
Rated value (DC)	24 V
 permissible range, lower limit (DC) 	20.4 V
• permissible range, upper limit (DC)	28.8 V
put current	
Current consumption (rated value)	500 mA; CPU only
Current consumption, max.	1 500 mA; CPU with all expansion modules
nrush current, max.	12 A; at 28.8 V DC
² t	0.5 A ² ·s
utput current	
or backplane bus (5 V DC), max.	1 600 mA; Max. 5 V DC for SM and CM
ncoder supply	1 555 Hirt, max. 5 v B5 for the area the
24 V encoder supply	
• 24 V	L+ minus 4 V DC min.
ower loss	Et minus 4 V De min.
	40 W
Power loss, typ.	12 W
emory	
Vork memory	
• integrated	150 kbyte
• expandable	No
Load memory	AND A
• integrated	4 Mbyte
Plug-in (SIMATIC Memory Card), max.	with SIMATIC memory card
Backup .	
• present	Yes
maintenance-free	Yes
without battery	Yes
PU processing times	
or bit operations, typ.	0.08 μs; / instruction
or word operations, typ.	1.7 μs; / instruction
or floating point arithmetic, typ.	2.3 µs; / instruction
PU-blocks	
Number of blocks (total)	DBs, FCs, FBs, counters and timers. The maximum number of addressable blocks rang from 1 to 65535. There is no restriction, the entire working memory can be used
DB .	
Number, max.	Limited only by RAM for code
ata areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	10 kbyte
Number, max.	8 kbyte; Size of bit memory address area
ocal data	
	16 kbyte; Priority class 1 (program cycle): 16 KB, priority class 2 to 26: 6 KB

Process image	
• Inputs, adjustable	1 kbyte
Outputs, adjustable Outputs, adjustable	1 kbyte
Hardware configuration	- nagro
Number of modules per system, max.	3 comm. modules, 1 signal board, 8 signal modules
Time of day	3 comm. modules, 1 signal board, 6 signal modules
Clock	
	Yes
Hardware clock (real-time) Reclaim time	
Backup time Deviation per day, may	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	4.4
— up to 40 °C, max.	14
Input voltage	04.1/
Rated value (DC) for eigned "O"	24 V
• for signal "4"	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	Voc. 0.2 mg 0.4 mg 0.9 mg 4.6 mg 2.2 mg 6.4 mg and 40.0 mg and 40.0
— 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, min. — at "0" to "1", max.	12.8 ms
for interrupt inputs	12.0 1110
— parameterizable	Yes
for technological functions	163
— parameterizable	Single phase: 3 @ 100 kHz & 3 @ 30 kHz, differential: 3 @ 80 kHz & 3 @ 30 kHz
Cable length	Single phase. 3 @ 100 ki iz & 3 @ 30 ki iz, dinerential. 3 @ 60 ki iz & 3 @ 30 ki iz
• shielded, max.	500 m; 50 m for technological functions
unshielded, max. unshielded, max.	300 m; for technological functions: No
	300 III, for technological functions. No
Digital outputs	40 D L
Number of digital outputs	10; Relays
Switching capacity of the outputs	O A
with resistive load, max.	2 A
• on lamp load, max.	30 W with DC, 200 W with AC
Output delay with resistive load	40
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Relay outputs	
	40
Number of relay outputs	10
Number of relay outputsNumber of operating cycles, max.	10 mechanically 10 million, at rated load voltage 100 000
Number of relay outputs Number of operating cycles, max. Cable length	mechanically 10 million, at rated load voltage 100 000
Number of relay outputs Number of operating cycles, max. Cable length shielded, max.	mechanically 10 million, at rated load voltage 100 000 500 m
Number of relay outputs Number of operating cycles, max. Cable length shielded, max. unshielded, max.	mechanically 10 million, at rated load voltage 100 000
Number of relay outputs Number of operating cycles, max. Cable length shielded, max. unshielded, max. Analog inputs	mechanically 10 million, at rated load voltage 100 000 500 m 150 m
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Number of relay outputs Number of operating cycles, max. Cable length shielded, max. unshielded, max. Malog inputs Number of analog inputs Input ranges Voltage Input ranges (rated values), voltages o to +10 V Input resistance (0 to 10 V)	mechanically 10 million, at rated load voltage 100 000 500 m 150 m 2 Yes
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Autocrossing	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
Number of ports	2
• integrated switch	Yes
Protocols	165
PROFINET IO Controller	Yes
PROFINET TO Controller PROFINET TO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy	Yes; as MRP client
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
 PG/OP communication 	Yes
— Isochronous mode	No
— IRT	No
— PROFlenergy	No
 Prioritized startup 	Yes
 Number of IO devices with prioritized startup, max. 	16
 Number of connectable IO Devices, max. 	16
 Number of connectable IO Devices for RT, max. 	16
— of which in line, max.	16
 Activation/deactivation of IO Devices 	Yes
 Number of IO Devices that can be simultaneously 	8
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
— Isochronous mode	No
— IRT	No
— PROFlenergy	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, max. 	2
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIBUS	Yes; CM 1243-5 (master) or CM 1242-5 (slave) required
AS-Interface	Yes; CM 1243-2 required
Protocols (Ethernet)	100, 011 1210 210 4110 4
• TCP/IP	Yes
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
	Tes Tes
Redundancy mode	
Media redundancy	V APP E 4
— MRP	Yes; as MRP client
— MRPD	No
SIMATIC communication	V.
• S7 routing	Yes
Open IE communication	
• TCP/IP	Yes
— Data length, max.	8 kbyte
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	8 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
Web server	
• supported	Yes
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)
	See Offiliae fielp (S7 Communication, user data size)
Number of connections	
Number of connections • overall	16; dynamically
Number of connections • overall Test commissioning functions	
Number of connections • overall Test commissioning functions Status/control	16; dynamically
Number of connections • overall Test commissioning functions Status/control • Status/control variable	16; dynamically Yes
Number of connections • overall Test commissioning functions Status/control	16; dynamically

Forcing	
• Forcing	Yes
Diagnostic buffer	
• present	Yes
Traces	
 Number of configurable Traces 	2
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	V
• RUN/STOP LED	Yes
ERROR LED MAINT LED	Yes Yes
Integrated Functions	165
Number of counters	6
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 	2
EMC	
Interference immunity against discharge of static electricity	
 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	
Interference immunity on supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance induced by h	
 Interference immunity against high-frequency radiation acc. to IEC 61000-4-6 	Yes
Emission of radio interference acc. to EN 55 011	
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
Standards, approvals, certificates	V
CE mark UL approval	Yes - Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Free fall ● Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	0.0 III, IIVO IIIIICO, III product package
• min.	0 °C
• max.	55 °C
 horizontal installation, min. 	0 °C
 horizontal installation, max. 	55 °C
vertical installation, min.	0°C
vertical installation, max.	45 °C
Ambient temperature during storage/transportation	40.00
	-40 °C 70 °C
• max. Air pressure acc. to IEC 60068-2-13	10 0
Operation, min.	795 hPa
Operation, max.	1 080 hPa
Storage/transport, min.	660 hPa
Storage/transport, max.	1 080 hPa
Relative humidity	

Operation, max.	95 %; no condensation
Vibrations	
 Vibration resistance during operation acc. to IEC 60068-2-6 	2 g (m/s²) wall mounting, 1 g (m/s²) DIN rail
 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; incl. failsafe
— FBD	Yes; incl. failsafe
— 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	130 mm
Height	100 mm
Depth	75 mm
Veights	
Weight, approx.	585 g
last modified:	2/5/2021

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