SIEMENS

Data sheet



Figure similar

Spare part SIMATIC S7-300, CPU 313C-2 PTP Compact CPU with MPI, 16 DI/16 DO, 3 high-speed counters (30 kHz), integrated interface RS485, Integr. power supply 24 V DC, work memory 64 KB, Front connector (1x 40-pole) and Micro Memory Card required

General information	
HW functional status	01
Firmware version	V2.6
Engineering with	
Programming package	STEP 7 V5.3 SP2 or higher with HW update
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	Miniature circuit breaker, type C; min. 2 A; miniature circuit breaker type B, min. 4 A
Load voltage L+	
 Rated value (DC) 	24 V
 permissible range, lower limit (DC) 	20.4 V
 permissible range, upper limit (DC) 	28.8 V
Digital inputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	Yes
Digital outputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	700 mA
Current consumption (in no-load operation), typ.	100 mA
Inrush current, typ.	11 A
l²t	0.7 A ² ·s
Digital inputs	
 from load voltage L+ (without load), max. 	70 mA
Digital outputs	
• from load voltage L+, max.	100 mA
Power loss	
Power loss, typ.	10 W
Memory	
Work memory	
• integrated	64 kbyte
• expandable	No
Load memory	
• Plug-in (MMC)	Yes

• Plug-in (MMC), max.	8 Mbyte
Data management on MMC (after last)	10 y
programming), min.	10 y
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.1 µs
for bit operations, max.	0.2 µs
for word operations, typ.	0.2 µs
for fixed point arithmetic, typ.	2 μs
for floating point arithmetic, typ.	3 µs
CPU-blocks	ο μο
	4.004. (DDs. ECs. EDs), the manifesting number of leadable blacks can
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
Number, max.	511; Number range: 1 to 511
• Size, max.	16 kbyte
FB	
Number, max.	1 024; Number range: 0 to 2047
• Size, max.	16 kbyte
FC	
Number, max.	1 024; Number range: 0 to 2047
• Size, max.	16 kbyte
OB	10 10310
• Size, max.	16 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
Number of delay alarm OBs	1; OB 20
Number of cyclic interrupt OBs	1; OB 35
Number of byone interrupt OBs Number of process alarm OBs	1; OB 40
Number of process diam 625 Number of startup OBs	1; OB 100
Number of startup OBs Number of asynchronous error OBs	4; OB 80, 82, 85, 87
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	2, 00 121, 122
	8
per priority classadditional within an error OB	4
	4
Counters, timers and their retentivity	
S7 counter	050
• Number	256
Retentivity	V
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	8
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	256
Retentivity	
a divistable	
— adjustable	Yes
— lower limit	Yes 0
-	
— lower limit	0

— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	, , , , , , , , , , , , , , , , , , , ,
Retentive data area (incl. timers, counters, flags), max.	64 kbyte
Flag	
• Size, max.	256 byte
Retentivity available	Yes; MB 0 to MB 255
Retentivity preset	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
per priority class, max.	510 byte
Address area	
I/O address area	
• Inputs	1 kbyte
Outputs	1 kbyte
of which distributed	
— Inputs	none
— Outputs	none
Process image	
• Inputs	128 byte
Outputs	128 byte
Default addresses of the integrated channels	
— Digital inputs	124.0 to 125.7
— Digital outputs	124.0 to 125.7
Digital channels	
Inputs	1 008
of which central	1 008
Outputs	1 008
— of which central	1 008
Analog channels	
Inputs	248
of which central	248
 Outputs 	248
— of which central	248
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	No
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	6
Rack	
• Racks, max.	4
 Modules per rack, max. 	8; In rack 3 max. 7
Time of day	
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s
·	

Operating hours counter	
Number	1
	0
Number/Number range Pange of values	
Range of valuesGranularity	0 to 2^31 hours (when using SFC 101) 1 h
• retentive	
	Yes; Must be restarted at each restart
Clock synchronization	Yes
• supported	Yes
• to MPI, master	
• to MPI, slave	Yes Yes
• in AS, master	ies
Digital inputs	40
Number of digital inputs	16
of which inputs usable for technological functions	12
integrated channels (DI)	16
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	16
— up to 60 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
• Rated value (DC)	24 V
● for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
Input current	
● for signal "1", typ.	9 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.3 / 3 / 15 ms
— Rated value	3 ms
for technological functions	
— at "0" to "1", max.	16 μs
Cable length	
shielded, max.	1 000 m; 100 m for technological functions
unshielded, max.	600 m; for technological functions: No
for technological functions	
— shielded, max.	100 m
— unshielded, max.	not allowed
Digital outputs	
Number of digital outputs	16
of which high-speed outputs	4
integrated channels (DO)	16
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
● on lamp load, max.	5 W
Load resistance range	
 lower limit 	48 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	500 mA
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A

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for signal "1" minimum load current for signal "0" residual current may	5 mA
for signal "0" residual current, max. Parallel switching of two outputs	0.5 mA
Parallel switching of two outputs	No
for upratingfor redundant control of a load	No Yes
Switching frequency	100
with resistive load, max.	100 Hz
with resistive load, max. with inductive load, max.	0.5 Hz
on lamp load, max.	100 Hz
 of the pulse outputs, with resistive load, max. 	2.5 kHz
Total current of the outputs (per group)	2.0 10 12
horizontal installation	
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
shielded, max.	1 000 m
• unshielded, max.	600 m
Analog inputs	
integrated channels (AI)	none
Analog outputs	
integrated channels (AO)	none
Encoder	
Connectable encoders	
2-wire sensor	Yes
permissible quiescent current (2-wire sensor),	1.5 mA
max.	1.0 IIIA
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	1; RS 422 / 485 combined
MPI	
Cable length, max.	50 m; without repeater
Point-to-point connection	
Cable length, max.	1 200 m
Integrated protocol driver	
— 3964 (R)	Yes
— ASCII	Yes
— RK 512	No
Transmission rate, RS 422/485	
— with 3964 (R) protocol, max.	38.4 kbit/s half duplex; 19.2 kbit/s full duplex
— with ASCII protocol, max.	38.4 kbit/s half duplex; 19.2 kbit/s full duplex
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
 PROFIBUS DP master 	No
 PROFIBUS DP slave 	No
Point-to-point connection	No
MPI	
 Number of connections 	8
 Transmission rate, max. 	187.5 kbit/s
Services	
Services — PG/OP communication — Routing	Yes No

Clabal data	Van
— Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	No
— S7 communication, as server	Yes
2. Interface	
Interface type	Integrated RS 422/ 485 interface
Isolated	Yes
Number of connection resources	none
Interface types	
• RS 485	Yes; RS 422 / 485 (X.27)
Output current of the interface, max.	No
Protocols	
• MPI	No
 PROFINET IO Controller 	No
PROFINET CBA	No
 PROFIBUS DP master 	No
 PROFIBUS DP slave 	No
Point-to-point connection	Yes
Point-to-point connection	
 Transmission rate, max. 	38.4 kbit/s half duplex; 19.2 kbit/s full duplex
 Interface controllable from the user program 	Yes
 Interface can trigger alarm/interrupt in the user 	Yes; Message on break - identification
program	
Protocols	
PROFIsafe	No
communication functions / header	
PG/OP communication	Yes
Global data communication	
• supported	Yes
 Number of GD loops, max. 	4
 Number of GD packets, max. 	4
 Number of GD packets, transmitter, max. 	4
 Number of GD packets, receiver, max. 	4
 Size of GD packets, max. 	22 byte
 Size of GD packet (of which consistent), max. 	22 byte
S7 basic communication	,
• supported	Yes; Server
User data per job, max.	76 byte
User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
	X_GET as server)
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes; Via CP and loadable FB
 User data per job, max. 	180 byte; With PUT/GET
User data per job (of which consistent), max.	64 byte
S5 compatible communication	
supported	Yes; via CP and loadable FC
Number of connections	
• overall	8
 usable for PG communication 	7
 reserved for PG communication 	1
 adjustable for PG communication, min. 	1
adjustable for PG communication, max.	7
usable for OP communication	7
— reserved for OP communication	1
— adjustable for OP communication, min.	1
adjustable for OP communication, max.	7
usable for S7 basic communication	4
additional of the second of th	

recorded for C7 basis communication	
— reserved for S7 basic communication	0
— adjustable for S7 basic communication, min.	0
— adjustable for S7 basic communication, max.• usable for routing	4 No
	INO
S7 message functions	0.00 11 11 11 11 11 11 11 11 11 11
Number of login stations for message functions, max.	8; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	20
Test commissioning functions	
Status block	Yes
Single step	Yes
Number of breakpoints	2
Status/control	
 Status/control variable 	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	30
of which status variables, max.	30
— of which control variables, max.	14
Forcing	
Forcing	Yes
Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
present	Yes
 Number of entries, max. 	100
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Status indicator digital input (green)	Yes
Status indicator digital output (green)	Yes
Integrated Functions	
Integrated Functions Frequency measurement	Yes
Integrated Functions Frequency measurement • Number of frequency meters	Yes 3; 3 channels up to max. 30 kHz (see "Technological Functions" manual)
Frequency measurement • Number of frequency meters	3; 3 channels up to max. 30 kHz (see "Technological Functions"
Frequency measurement • Number of frequency meters controlled positioning	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No
Frequency measurement • Number of frequency meters	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual)
Frequency measurement • Number of frequency meters controlled positioning integrated function blocks (closed-loop control)	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual)
Frequency measurement • Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see
Frequency measurement • Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual)
Frequency measurement Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual)
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Frequency measurement Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs Potential separation digital inputs between the channels between the channels and backplane bus	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual) 2.5 kHz Yes No
Frequency measurement Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs Potential separation digital inputs between the channels between the channels and backplane bus Potential separation digital outputs	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual) 2.5 kHz Yes No
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Frequency measurement Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs Potential separation digital inputs between the channels between the channels and backplane bus Potential separation digital outputs Potential separation digital outputs Potential separation digital outputs between the channels between the channels between the channels and backplane bus Isolation Isolation Isolation tested with configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual) 2.5 kHz Yes No Yes Yes Yes Yes Yes 8 Yes 600 V DC Yes; V5.2 SP1 with HW update see instruction list 8
Frequency measurement Number of frequency meters controlled positioning integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs Potential separation digital inputs between the channels between the channels and backplane bus Potential separation digital outputs Potential separation digital outputs Potential separation digital outputs between the channels between the channels between the channels and backplane bus Isolation Isolation Isolation / header Configuration / header Configuration / programming / header Command set	3; 3 channels up to max. 30 kHz (see "Technological Functions" manual) No PID controller (see "Technological Functions" manual) Yes 3; 3 channels pulse width modulation up to max. 2.5 kHz (see "Technological Functions" manual) 2.5 kHz Yes No Yes Yes Yes Yes Yes Yes 8 Yes 600 V DC

Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
 User program protection/password protection 	Yes
Dimensions	
Width	120 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	566 g

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