SIEMENS

Data sheet

6ES7313-5BG04-0AB0



SIMATIC S7-300, CPU 313C, COMPACT CPU WITH MPI, 24 DI/16 DO, 4AI, 2AO 1 PT100, 3 FAST COUNTERS (30 KHZ), INTEGRATED 24V DC POWER SUPPLY, 128 KBYTE WORKING MEMORY, FRONT CONNECTOR (2 X 40PIN) AND MICRO MEMORY CARD REQUIRED

General information	
Hardware product version	01
Firmware version	V3.3
Engineering with	
Programming package	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	19.2 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
Mains buffering	
Mains/voltage failure stored energy time	5 ms
• Repeat rate, min.	1 s
Load voltage L+	
Digital inputs	
— Rated value (DC)	24 V

Reverse polarity protection	Yes
	100
Digital outputs	24 V
— Rated value (DC)	
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	650 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	5 A
l²t	0.7 A ² ·s
Digital inputs	
• from load voltage L+ (without load), max.	80 mA
Digital outputs	
• from load voltage L+, max.	50 mA
Power loss	
Power loss, typ.	12 W
Mamary	
Memory Work memory	
• integrated	128 kbyte
expandable	No
·	
 Size of retentive memory for retentive data blocks 	64 kbyte
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last 	10 y
programming), min.	
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.07 μs
for word operations, typ.	0.15 µs
for fixed point arithmetic, typ.	0.2 μs
for floating point arithmetic, typ.	0.72 μs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks
DB	can be reduced by the MMC used.
	1 024; Number range: 1 to 16000
Number, max. Size may	64 kbyte
• Size, max.	o n ruyle
FB	

• Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Description	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
Number of delay alarm OBs	2; OB 20, 21
Number of cyclic interrupt OBs	4; OB 32, 33, 34, 35
Number of process alarm OBs	1; OB 40
Number of startup OBs	1; OB 100
Number of asynchronous error OBs	4; OB 80, 82, 85, 87
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
• per priority class	16
 additional within an error OB 	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	

— 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 in total	All, max. 64 KB
Flag	
Number, 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	
• Number, max.	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
 Retentivity adjustable 	Yes; via non-retain property on DB
 Retentivity preset 	Yes
Local data	
• per priority class, max.	32 kbyte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	1 024 byte
Outputs	1 024 byte
of which distributed	
— Inputs	none
— Outputs	none
Process image	
Inputs	1 024 byte
Outputs	1 024 byte
Inputs, adjustable	1 024 byte
 Outputs, adjustable 	1 024 byte
Inputs, default	128 byte
 Outputs, default 	128 byte
Default addresses of the integrated channels	
— Digital inputs	124.0 to 126.7
— Digital outputs	124.0 to 125.7
— Analog inputs	752 to 761
— Analog outputs	752 to 755
Digital channels	
• Inputs	1 016
— of which central	1 016

Outputs	1 008
— of which central	1 008
Analog channels	
• Inputs	253
— of which central	253
Outputs	250
— of which central	250
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	none
• 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; Typ.: 2 s
 Behavior of the clock following POWER-ON 	Clock continues running after POWER OFF
 Behavior of the clock following expiry of backup period 	Clock continues to run with the time at which the power failure occurred
Operating hours counter	
• Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 hour
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes
• to MPI, master	Yes
to MPI, masterto MPI, slave	Yes Yes
● to MPI, slave	Yes

Number of digital inputs	24
of which inputs usable for technological	12
functions	12
integrated channels (DI)	24
Input characteristic curve in accordance with IEC	Yes
61131, type 1	
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	24
— up to 60 °C, max.	12
vertical installation	
— up to 40 °C, max.	12
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+15 to +30V
Input current	
• for signal "1", typ.	8 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.3 / 3 / 15 ms (You can reconfigure the input delay of
	the standard inputs during program runtime. Please note that
	under certain circumstances your newly set filter time may not be
	effective until the next filter cycle.)
— Rated value	3 ms
for counter/technological functions	
— at "0" to "1", max.	16 μs; Minimum pulse width/minimum pause between pulses at maximum counting frequency
Cable length	maximum counting requency
• shielded, max.	1 000 m; 100 m for technological functions
• unshielded, max.	600 m; For technological functions: No
for technological functions	ood III, I of teelinological fanotions. No
— shielded, max.	100 m; at maximum count frequency
— shielded, max. — unshielded, max.	not allowed
— unsilielueu, max.	not anowed
Digital outputs	
Number of digital outputs	16
of which high-speed outputs	4; Notice: You cannot connect the fast outputs of your CPU in parallel
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
• for signal "1" minimum load current	5 mA
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
 for redundant control of a load 	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• 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)	
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	
Number of analog inputs	4
For voltage/current measurement	4
For resistance/resistance thermometer	1
measurement	
integrated channels (AI)	5; 4 x current/voltage, 1 x resistance
permissible input voltage for current input (destruction limit), max.	5 V; Permanent
permissible input voltage for voltage input (destruction limit), max.	30 V; Permanent
permissible input current for voltage input (destruction limit), max.	0.5 mA; Permanent

permissible input current for current input (destruction limit), max.	50 mA; Permanent
Technical unit for temperature measurement adjustable	Yes; Degrees Celsius / degrees Fahrenheit / Kelvin
Input ranges	
• Voltage	Yes; ±10 V / 100 kΩ; 0 V to 10 V / 100 kΩ
• Current	Yes; ±20 mA / 100 Ω ; 0 mA to 20 mA / 100 Ω ; 4 mA to 20 mA / 100 Ω
Resistance thermometer	Yes; Pt 100 / 10 MΩ
Resistance	Yes; 0 Ω to 600 Ω / 10 M Ω
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
Input resistance (0 to 20 mA)	100 Ω
• -20 mA to +20 mA	Yes
• Input resistance (-20 mA to +20 mA)	100 Ω
• 4 mA to 20 mA	Yes
Input resistance (4 mA to 20 mA)	100 Ω
Input ranges (rated values), resistance thermometer	
• Pt 100	Yes
• Input resistance (Pt 100)	10 MΩ
Input ranges (rated values), resistors	
No-load voltage, typ.	3.3 V
 Measuring current, typ. 	1,25 mA
• 0 to 600 ohms	Yes
• Input resistance (0 to 600 ohms)	10 MΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	No
Characteristic linearization	
parameterizable	Yes; by software
— for resistance thermometer	Pt 100
Cable length	
• shielded, max.	100 m
Analog outputs	
Number of analog outputs	2
integrated channels (AO)	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	55 mA
Current output, no-load voltage, max.	14 V

Output ranges, voltage	
• 0 to 10 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
for voltage output two-wire connection	Yes; Without compensation of the line resistances
for voltage output four-wire connection	No
• for current output two-wire connection	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ
with voltage outputs, capacitive load, max.	0.1 μF
with current outputs, max.	300 Ω
with current outputs, inductive load, max.	0.1 mH
Destruction limits against externally applied voltages an	
Voltages at the outputs towards MANA	16 V; Permanent
Current, max.	50 mA; Permanent
Cable length	33.11., 1.01.12.10.11
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Measurement principle Integration and conversion time/resolution per channel	
Measurement principle	Actual value encryption (successive approximation) 12 bit
Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign),	
Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max.	12 bit
Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for	12 bit Yes; 16.6 / 20 ms
Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz	12 bit Yes; 16.6 / 20 ms 50 / 60 Hz
Measurement principle Integration and conversion time/resolution per channel • Resolution with overrange (bit including sign), max. • Integration time, parameterizable • Interference voltage suppression for interference frequency f1 in Hz • permissible input frequency, max.	12 bit Yes; 16.6 / 20 ms 50 / 60 Hz 400 Hz
Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz permissible input frequency, max. Time constant of the input filter Basic execution time of the module (all channels released)	12 bit Yes; 16.6 / 20 ms 50 / 60 Hz 400 Hz 0.38 ms
Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz permissible input frequency, max. Time constant of the input filter Basic execution time of the module (all channels released)	12 bit Yes; 16.6 / 20 ms 50 / 60 Hz 400 Hz 0.38 ms
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Measurement principle Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max. Integration time, parameterizable Interference voltage suppression for interference frequency f1 in Hz permissible input frequency, max. Time constant of the input filter Basic execution time of the module (all channels released) Analog value generation for the outputs Integration and conversion time/resolution per channel Resolution with overrange (bit including sign), max.	12 bit Yes; 16.6 / 20 ms 50 / 60 Hz 400 Hz 0.38 ms 1 ms
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• for inductive load

0.5 ms

Encoder	
Connection of signal encoders	
 for voltage measurement 	Yes
• for current measurement as 2-wire transducer	Yes; with external supply
 for current measurement as 4-wire transducer 	Yes
 for resistance measurement with two-wire connection 	Yes; Without compensation of the line resistances
 for resistance measurement with three-wire connection 	No
 for resistance measurement with four-wire connection 	No
Connectable encoders	
• 2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	1.5 mA
Errors/accuracies	
Temperature error (relative to input range), (+/-)	0.006 %/K
Crosstalk between the inputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.06 %
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.1 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.06 %
Operational error limit in overall temperature range	
Voltage, relative to input range, (+/-)	1 %
 Current, relative to input range, (+/-) 	1 %
 Resistance, relative to input range, (+/-) 	1 %
 Voltage, relative to output range, (+/-) 	1 %
 Current, relative to output range, (+/-) 	1 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to input range, (+/-) 	0.8 %; Linearity error +/- 0.06 %
 Current, relative to input range, (+/-) 	0.8 %; Linearity error +/- 0.06 %
 Resistance, relative to input range, (+/-) 	0.8 %; Linearity error +/- 0.2%
 Resistance thermometer, relative to input range, (+/-) 	0.8 %
 Voltage, relative to output range, (+/-) 	0.8 %

• Current, relative to output range, (+/-)

Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = interference frequency

0.8 %

Series mode interference (peak value of interference < rated value of input range), min	30 dB
interference < rated value of input range), min.Common mode interference, min.	40 dB
Interfaces	
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Physics	RS 485
Isolated	No
Power supply to interface (15 to 30 V DC), max.	200 mA
Functionality	
• MPI	Yes
 PROFIBUS DP master 	No
 PROFIBUS DP slave 	No
 Point-to-point connection 	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	No
 Global data communication 	Yes
 S7 basic communication 	Yes
— S7 communication	Yes; Only server, configured on one side
 — S7 communication, as client 	No; but via CP and loadable FB
— S7 communication, as server	Yes
Communication functions	
PG/OP communication	Yes
Data record routing	No
Global data communication	
supported	Yes
Number of GD loops, max.	8
Number of GD packets, max.	8
 Number of GD packets, transmitter, max. 	8
 Number of GD packets, receiver, max. 	8
 Size of GD packets, max. 	22 byte
• Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	

supported

• User data per job, max.

Yes

76 byte

### Supported	• 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)
as server as client User data per job, max. User data per job, max. User data per job (of which consistent), max. 240 byte; with PUT/GET 240 byte; with PUT/GET 240 byte; as server S5 compatible communication supported Yes; via CP and loadable FC Number of connections overall vasable for PG communication reserved for PG communication adjustable for PG communication, min. adjustable for PG communication, max. usable for PG communication reserved for OP communication adjustable for OP communication, min. adjustable for OP communication, min. adjustable for OP communication, min. adjustable for S7 basic communication reserved for S7 basic communication adjustable for S7 basic communication adjustable for S7 basic communication reserved for S7 basic communication adjustable for	S7 communication	
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Supported Ves; via CP and loadable FC Number of connections overall usable for PG communication - reserved for PG communication - adjustable for PG communication, min. - adjustable for PG communication - reserved for OP communication - reserved for OP communication - adjustable for OP communication - adjustable for OP communication, min. - adjustable for OP communication, min. - adjustable for OP communication - adjustable for S7 basic communication - reserved for S7 basic communication - adjustable for S7	• User data per job (of which consistent), max.	240 byte; as server
Number of connections • overall • usable for PG communication — reserved for PG communication, min. — adjustable for PG communication, max. • usable for OP communication — reserved for OP communication — adjustable for OP communication — reserved for OP communication — adjustable for OP communication — adjustable for OP communication — adjustable for OP communication, min. — adjustable for S7 basic communication — reserved for S7 basic communication — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, min. — adjustable for S7 basic communication, max. S7 message functions 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. 300 Test commissioning functions Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints 4 Status/control • Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which status variables, max. — of which control variables, max. — 14	S5 compatible communication	
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	 usable for PG communication 	7
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- adjustable for OP communication, min adjustable for OP communication, max. • usable for S7 basic communication - reserved for S7 basic communication - adjustable for S7 basic communication, min adjustable for S7 basic communication, min adjustable for S7 basic communication, min adjustable for S7 basic communication, max. S7 message functions Number of login stations for message functions, max. 8; Depending on the configured connections for PG/OP and S7 basic communication Process diagnostic messages simultaneously active Alarm-S blocks, max. 300 Test commissioning functions Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints 4 Status/control • Status/control variable • Variables • Number of variables, max of which status variables, max of which control variables, max 14	 usable for OP communication 	7
- adjustable for OP communication, max. • usable for S7 basic communication - reserved for S7 basic communication - adjustable for S7 basic communication, min. - adjustable for S7 basic communication, min. - adjustable for S7 basic communication, max. S7 message functions Number of login stations for message functions, max. 8; Depending on the configured connections for PG/OP and S7 basic communication Process diagnostic messages simultaneously active Alarm-S blocks, max. 300 Test commissioning functions Status block Yes; Up to 2 simultaneously Single step Yes Number of breakpoints 4 Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. 14	 reserved for OP communication 	1
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Single step Number of breakpoints 4 Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. 14	Test commissioning functions	
Number of breakpoints 4 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	Status block	Yes; Up to 2 simultaneously
Status/control Status/control variable Ves Inputs, outputs, memory bits, DB, times, counters Number of variables, max. of which status variables, max. of which control variables, max. 14	Single step	Yes
 Status/control variable Variables Number of variables, max. of which status variables, max. of which control variables, max. 14	Number of breakpoints	4
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 Number of variables, max. — of which status variables, max. — of which control variables, max. 14 	Status/control variable	Yes
 — of which status variables, max. — of which control variables, max. 14 	Variables	Inputs, outputs, memory bits, DB, times, counters
— of which control variables, max.	Number of variables, max.	30
	— of which status variables, max.	30
Forcing	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.	500
— adjustable	No
of which powerfail-proof	100; Only the last 100 entries are retained
 Number of entries readable in RUN, max. 	499
— can be set	Yes; From 10 to 499
— preset	10
Service data	
• can be read out	Yes
Interrupts/diagnostics/status information	
Diagnostics indication LED	
Status indicator digital input (green)	Yes

Integrated Functions	
Number of counters	3; See "Technological Functions" manual
Counting frequency (counter) max.	30 kHz
Frequency measurement	Yes
Number of frequency meters	3; up to 30 kHz (see "Technological Functions" manual)
controlled positioning	No
integrated function blocks (closed-loop control)	Yes; PID controller (see "Technological Functions" manual)
PID controller	Yes
Number of pulse outputs	3; Pulse width modulation up to 2.5 kHz (see "Technological
	Functions" Manual)
Limit frequency (pulse)	2.5 kHz

Yes

Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	Yes
between the channels	No
 between the channels and backplane bus 	Yes
Potential separation digital outputs	
Potential separation digital outputs	Yes
between the channels	Yes
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes
Potential separation analog inputs	
Potential separation analog inputs	Yes; common for analog I/O
• between the channels	No

• Status indicator digital output (green)

between the channels and backplane bus	Yes
Potential separation analog outputs	
Potential separation analog outputs	Yes; common for analog I/O
• between the channels	No
between the channels and backplane bus	Yes
Permissible potential difference Between the inputs and MANA (UCM)	8 V DC
Detween the inputs and MANA (OOM)	0 V DC
Isolation	
Isolation tested with	600 V DC
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Configuration	
Configuration software	
• STEP 7	Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or
	higher with HSP 203
• STEP 7 Lite	No
Programming	
Command set	see instruction list
Nesting levels	8
System functions (SFC)	see instruction list
 System function blocks (SFB) 	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
User program protection/password protection	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	120 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	660 g

08/12/2017 last modified: