SIEMENS

Data sheet

6AG1314-6BH04-7AB0



SIPLUS S7-300 CPU 314C for medial exposure -25...+70°C based on 6ES7314-6BH04-0AB0. Compact CPU with MPI, 24 DI/16 DO, 4 AI, 2 AO, 1 Pt100, 4 high-speed counters (60 kHz), integrated interface RS485, Integr. power supply 24 V DC, work memory 192 KB, Front connector (2x 40-pole) and Micro Memory Card required

F	igu	re	sim	ilar

General information Engineering with

Programming package	STEP 7 as of V5.5 + SP1 or STEP 7 V5.3 + SP2 or higher with HSP 204
Supply voltage	
Rated value (DC)	24 V
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
Digital outputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	660 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.	13 W
Memory	
Work memory	
 integrated 	192 kbyte
expandable	No
Load memory	
• Plug-in (MMC)	Yes

	0.145.45
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 y
Backup	
present	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
	res, riogram and data
CPU processing times	0.00
for bit operations, typ.	0.06 µs
for word operations, typ.	0.12 µs
for fixed point arithmetic, typ.	0.16 µs
for floating point arithmetic, typ.	0.59 µs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can
DB	be reduced by the MMC used.
Number, max.	1.024: Number range: 1 to 16000
	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	1.024: Number range: 0 to 7000
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	1.024: Number range: 0 to 7000
• Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
• Number, max.	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
	999
— upper limit	
IEC counter	Vac
present Type	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	256
Number	256
Retentivity	N
— adjustable	Yes
— lower limit	0
— upper limit	255

— preset	No retentivity
Time range	To rotoning
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
•Туре	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. 	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	4.040
Inputs	1 016
— of which central	1 016
Outputs of which central	1 008 1 008
— of which central Analog channels	
Inputs	253
of which central	253
Outputs	255
- 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	10

Rack	
Racks, max.	4
 Modules per rack, max. 	8; In rack 3 max. 7
ime of day	
Clock	
Hardware clock (real-time)	Yes
	Yes
 retentive and synchronizable 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
	0
Number/Number range	
Range of values	0 to 2^31 hours (when using SFC 101)
• Granularity	1h
retentive	Yes; Must be restarted at each restart
Clock synchronization	
supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
 in AS, master 	Yes
• in AS, slave	No
igital inputs	
Number of digital inputs	24
of which inputs usable for technological functions	16
integrated channels (DI)	24
Input characteristic curve in accordance with IEC 61131,	Yes
type 1	
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	24
— up to 60 °C, max.	12; up to 70 °C
vertical installation	
— up to 40 °C, max.	12
Input voltage	
Rated value (DC)	24 ∨
• for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
	+ 15 t0 +50 V
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 technological functions	
— at "0" to "1", max.	8 µs; Minimum pulse width/minimum pause between pulses at
	maximum counting frequency
Cable length	
• shielded, max.	1 000 m; 50 m for technological functions
• unshielded, max.	600 m; for technological functions: No
for technological functions	
— shielded, max.	50 m; at maximum count frequency
 unshielded, max. 	not allowed

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; 1.5 A @ > 60 °C
vertical installation	27, 1.07, 6, 00 0
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Analog inputs	
Number of analog inputs	5
For voltage/current measurement	4
For resistance/resistance thermometer	1
measurement	1
integrated channels (AI)	5; 4x current/voltage, 1x resistance
permissible input voltage for current input (destruction	5 V; Permanent
limit), max.	
permissible input voltage for voltage input (destruction	30 V; Permanent
limit), max.	
permissible input current for voltage input (destruction limit), max.	0.5 mA; Permanent
permissible input current for current input (destruction	50 mA; Permanent
limit), max.	
Electrical input frequency, max.	400 Hz
No-load voltage for resistance-type transmitter, typ.	3.3 V
Constant measurement current for resistance-type transmitter, typ.	1.25 mA
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 MΩ
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
— Input resistance (0 to 10 V)	100 kΩ
Input ranges (rated values), currents	100 112
• 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	100 12
Pt 100	Yes
— Input resistance (Pt 100)	10 ΜΩ
Input ranges (rated values), resistors	
0 to 600 ohms	Yes
— Input resistance (0 to 600 ohms)	10 ΜΩ
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 and cur	rents
Voltages at the outputs towards MANA	16 V; Permanent
• Current, max.	50 mA; Permanent
Cable length	
 shielded, max. 	200 m
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
Integration time, parameterizable	Yes; 16.6 / 20 ms
 Interference voltage suppression for interference 	50 / 60 Hz

from concerts of the life	
frequency f1 in Hz Time constant of the input filter 	0.38 ms
Basic execution time of the module (all channels	1 ms
released)	1110
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
Conversion time (per channel)	1 ms
Settling time	
 for resistive load 	0.6 ms
 for capacitive load 	1 ms
for inductive load	0.5 ms
Encoder	
Connection of signal encoders	Y.
for voltage measurement	Yes
 for current measurement as 2-wire transducer 	Yes; with external supply
 for current measurement as 4-wire transducer for resistance measurement with two-wire 	Yes
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, (+/-) Resistance thermometer, relative to input range, (+/- 	0.8 %; Linearity error ±0.2 % 0.8 %
	0.0.1/
• Voltage, relative to output range, (+/-)	0.8 %
• Current, relative to output range, (+/-)	0.8 %
 Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = Series mode interference (peak value of interference), min 	30 dB
interference < rated value of input range), min.	40 dP
Common mode interference, min. Interfaces	40 dB
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
Point-to-point connection	4.000
Cable length, max.	1 200 m
Integrated protocol driver	
— 3964 (R)	Yes
— ASCII	Yes
— RK 512	Yes
Transmission rate, RS 422/485	
— with 3964 (R) protocol, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
— with ASCII protocol, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
— with RK 512 protocol, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
• RS 485	Yes
 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	
 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 — S7 communication, as client	No: but via CP and loadable FB
— S7 communication, as server	Yes
	Tes
2. Interface	late material DO 400/ 405 interface
Interface type	Integrated RS 422/ 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes; RS 422 / 485 (X.27)
Output current of the interface, max.	No
Protocols	
	No
PROFINET IO Controller	No
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	No
 PROFIBUS DP slave 	No
Point-to-point connection	Yes
Point-to-point connection	
 Transmission rate, max. 	19.2 kbit/s; 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 program 	Yes; Message on break - identification
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. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. S6 byte 	
Number of GD packets, receiver, max.8• Size of GD packets, max.22 byte• Size of GD packet (of which consistent), max.22 byteS7 basic communication22 byte• supportedYes• User data per job, max.76 byte	
 Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. Yes 76 byte 	
• Size of GD packet (of which consistent), max. 22 byte S7 basic communication • supported Yes • User data per job, max. 76 byte	
S7 basic communication • supported Yes • User data per job, max. 76 byte	
 supported User data per job, max. 76 byte 	
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_F	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 kbyte; With PUT/GET	
User data per job (of which consistent), max. 240 byte; as server	
S5 compatible communication	
supported Yes; via CP and loadable FC	
Number of connections	
• overall 12	
usable for PG communication 11	
- reserved for PG communication 1	
— adjustable for PG communication, min. 1	
— adjustable for PG communication, max. 11	
usable for OP communication 11	
— reserved for OP communication 1	
— adjustable for OP communication, min.	
– adjustable for OP communication, max. 11	
usable for S7 basic communication 8	
— reserved for S7 basic communication 0	
— adjustable for S7 basic communication, min. 0	
 — adjustable for S7 basic communication, max. 8 	
S7 message functions	
Number of login stations for message functions, max. 12; Depending on the configured connections for PG/OP and S	7 hasic
communication	1 00310
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 variable Yes	
Variables Inputs, outputs, memory bits, DB, times, counters	
Number of variables, max.	
- of which status variables, max. 30	
 — of which status variables, max. — of which control variables, max. 14 	
Forcing	
Forcing Yes Forcing variables	
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.	
- adjustable 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
Status indicator digital output (green)	Yes
Integrated Functions	
Frequency measurement	Yes
Number of frequency meters	4; up to 60 kHz (see "Technological Functions" manual)
controlled positioning	Yes
integrated function blocks (closed-loop control)	Yes; PID controller (see "Technological Functions" manual)
PID controller	Yes
Number of pulse outputs	4; Pulse width modulation up to 2.5 kHz (see "Technological Functions"
Limit frequency (pulse)	Aanual) 2.5 kHz
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
 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
Isolation	
Isolation tested with	600 V DC
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
Deletive humidity	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	100 0/ · DH incl. condengation /front /no comprise inclusion we dea
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

Resistance	
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 availability
 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	
Configuration Configuration software	
	Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
Configuration software	
Configuration software • STEP 7 • STEP 7 Lite Programming	HSP 203
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set	HSP 203
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels	HSP 203 No see instruction list 8
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC)	HSP 203 No see instruction list 8 see instruction list
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)	HSP 203 No see instruction list 8
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language	HSP 203 No see instruction list 8 see instruction list see instruction list
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD	HSP 203 No see instruction list 8 see instruction list see instruction list
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD — STL	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL	HSP 203 No see instruction list 8 see instruction list Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language LAD FBD STL SCL CFC	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph®	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection	HSP 203 No see instruction list 8 see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® Know-how protection • User program protection/password protection	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • User program protection/password protection • Block encryption	HSP 203 No see instruction list 8 see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • Block encryption Dimensions Width Height	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • Block encryption Dimensions Width Height Depth	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • Block encryption Dimensions Width Height Depth Weights	HSP 203 No see instruction list 8 see instruction list Yes Yes Yes Yes Yes Yes Yes Yes
Configuration software • STEP 7 • STEP 7 Lite Programming • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Know-how protection • Block encryption Dimensions Width Height Depth	HSP 203 No see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes