SIEMENS

Data sheet

6ES7315-2AH14-0AB0



SIMATIC S7-300, CPU 315-2DP Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB 2nd interface DP master/slave Micro Memory Card required

General information	
Product function	
Isochronous mode	Yes
	res
Engineering with	OTED 7 V/F F + OD4 or birbor or OTED 7 V/F 0 + OD4 or birbor with LIOD
 Programming package 	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218
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)	2 A min.
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
 Repeat rate, min. 	1 s
Input current	
Current consumption (rated value)	850 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	3.5 A
²t	1 A ² ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
integrated	256 kbyte
expandable	No
Load memory	
• Plug-in (MMC)	Yes
 Plug-in (MMC), max. 	8 Mbyte
 Data management on MMC (after last programming), min. 	10 у
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
 without battery 	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.05 µs
for word operations, typ.	0.09 µs
for fixed point arithmetic, typ.	0.12 µs

for floating point arithmetic, typ.	0.45 µs
CPU-blocks	
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.	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
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	
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 DPV1 alarm OBs	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	5; OB 80, 82, 85, 86, 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	Yes
Retentivity — adjustable — lower limit	Yes 0
Retentivity — adjustable — lower limit — upper limit	Yes 0 255
Retentivity — adjustable — lower limit — upper limit — preset	Yes 0
Retentivity — adjustable — lower limit — upper limit — preset Counting range	Yes 0 255 Z 0 to Z 7
Retentivity — adjustable — lower limit — upper limit — preset	Yes 0 255
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit	Yes 0 255 Z 0 to Z 7 0
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit	Yes 0 255 Z 0 to Z 7 0
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present	Yes 0 255 Z 0 to Z 7 0 999
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter	Yes 0 255 Z 0 to Z 7 0 999
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present • Type	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present • Type • Number	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present • Type • Number S7 times	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable	Yes 0 255 Z 0 to Z 7 0 999 Ves SFB Unlimited (limited only by RAM capacity) Vision Vis
Retentivity - adjustable - lower limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit	Yes 0 255 Z 0 to Z 7 0 999 Ves SFB Unlimited (limited only by RAM capacity) 256 Ves 0 1 256
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset	Yes 0 255 Z 0 to Z 7 0 999 Ves SFB Unlimited (limited only by RAM capacity) Ves 256 Ves 256
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256 Yes 0 255 No retentivity
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset Time range - lower limit	Yes 0 255 Z 0 to Z 7 0 999 Ves SFB Unlimited (limited only by RAM capacity) Ves 256 Ves 256
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset Time range	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256 Yes 0 255 No retentivity 10 ms
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset Time range - lower limit - upper limit	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256 Yes 0 255 No retentivity 10 ms 9 990 s
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset Time range - lower limit - upper limit IEC timer • present	Yes 0 255 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256 Yes 0 255 No retentivity 10 ms
Retentivity - adjustable - lower limit - upper limit - preset Counting range - lower limit - upper limit IEC counter • present • Type • Number S7 times • Number Retentivity - adjustable - lower limit - upper limit - preset Time range - lower limit - upper limit IEC timer	Yes 0 255 2 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 256 Yes 0 255 No retentivity 10 ms 9 990 s

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	128 kbyte
Flag	
• Size, max.	2 048 byte
Retentivity available	Yes; MB 0 to MB 2 047
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. 2 KB per block
Address area	
I/O address area	
Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	2 040 Dyte
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
Inputs	2 048 byte
Outputs	2 048 byte
Inputs, adjustable	2 048 byte
Outputs, adjustable	2 048 byte
Inputs, default	128 byte
Outputs, default	128 byte
Subprocess images	120 0910
Number of subprocess images, max.	1
Digital channels	
Inputs	16 384
of which central	1 0 2 4
Outputs	16 384
Outputs — of which central	10 384
Analog channels	
	1 024
Inputs of which central	
- of which central	256 1 024
Outputs — of which central	256
	200
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	1
• 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
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	Clock continues to run with the time at which the power failure occurred

period	
Operating hours counter	
Number	1
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
retentive	Yes; Must be restarted at each restart
Clock synchronization	
supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes; With DP slave only slave clock
	Yes
• to DP, slave	Yes
• in AS, master	No
• in AS, slave	NO
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0
Analog outputs	
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2: MPI and PROFIBUS DP
Number of RS 422 interfaces	0
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	101.0 10103
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	Yes
 — S7 basic communication — S7 communication 	Yes
	Yes; Only server, configured on one side
- S7 communication, as client	No
— S7 communication, as server	Yes
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	No.
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	Na
• MPI	No
PROFIBUS DP master	Yes

PROFIBUS DP slave	Yes
Point-to-point connection	No
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124; Per station
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
- S7 basic communication	Yes; I blocks only
- S7 communication	Yes; Only server, configured on one side
- S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes; OB 61
— SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes
— Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	
— DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— Outputs, max.	2 048 byte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	
• GSD file	The latest GSD file is available at: http://www.siemens.com/profibus-gsd
 Transmission rate, max. 	12 Mbit/s
 automatic baud rate search 	Yes; only with passive interface
 Address area, max. 	32
 User data per address area, max. 	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
 Global data communication 	No
 — S7 basic communication 	No
— S7 communication	Yes; Only server, configured on one side
 — S7 communication, as client 	No
— S7 communication, as server	Yes
— Direct data exchange (slave-to-slave	Yes
communication) — DPV1	No
	No
Transfer memory — Inputs	244 byte
— Inputs — Outputs	244 byte
Communication functions	
PG/OP communication	Yes
Data record routing	Yes
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	Yes

a Lloor data pariah may	76 huto
User data per job, max.	76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
 User data per job (of which consistent), max. 	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. 	240 byte; as server
S5 compatible communication	
supported	Yes; via CP and loadable FC
Number of connections	
overall	16
 usable for PG communication 	15
 reserved for PG communication 	1
 — adjustable for PG communication, min. 	1
 adjustable for PG communication, max. 	15
 usable for OP communication 	15
 reserved for OP communication 	1
— adjustable for OP communication, min.	1
 adjustable for OP communication, max. 	15
 usable for S7 basic communication 	12
 reserved for S7 basic communication 	0
 — adjustable for S7 basic communication, min. 	0
 adjustable for S7 basic communication, max. 	12
S7 message functions	
Number of login stations for message functions, max.	16; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
SITIUILATEOUSIV ACTIVE ATATTI-S DIOCKS, TIAX.	300
	300
Test commissioning functions	
Test commissioning functions Status block	Yes; Up to 2 simultaneously
Test commissioning functions Status block Single step	
Test commissioning functions Status block	Yes; Up to 2 simultaneously Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control	Yes; Up to 2 simultaneously Yes 4
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable	Yes; Up to 2 simultaneously Yes 4 Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters
Test commissioning functions Status block Single step Number of breakpoints Status/control Status/control Status/control variable • Status/control variable • Variables • Number of variables, max. • Number of variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables • Number of variables, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500
Test commissioning functions Status block Single step Number of breakpoints Status/control Status/control Status/control variable Variables Variables Number of variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. — of which control variables, max. — of which control variables, max. Forcing Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — adjustable	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing • Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max.	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499 10
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Ambient conditions	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499 10
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. — of variables • Forcing • Present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max. — adjustable — preset Service data • can be read out Ambient conditions Ambient temperature during operation	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499 10 Yes
Test commissioning functions Status block Single step Number of breakpoints Status/control • Status/control variable • Variables • Number of variables, max. - of which status variables, max. - of which control variables, max. - of which control variables, max. - of which control variables, max. Forcing • Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. - adjustable - of which powerfail-proof • Number of entries readable in RUN, max. - adjustable - preset Service data • can be read out Ambient conditions	Yes; Up to 2 simultaneously Yes 4 Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes Inputs, outputs 10 Yes 500 No 100; Only the last 100 entries are retained Yes; From 10 to 499 10

Configuration	
Configuration software	
• STEP 7	Yes; V5.2 SP1 or higher with HW update
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	40 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	290 g
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