## **SIEMENS**

## **Data sheet**

6ES7315-2FJ14-0AB0



SIMATIC S7-300 CPU315F-2 PN/DP, Central processing unit with 512 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

Figure similar

General information	
HW functional status	01
Firmware version	V3.2
Product function	
Isochronous mode	Yes; Via PROFIBUS DP or PROFINET interface
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4
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)	2 A min.
Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Repeat rate, min.	1 s
Input current	
Current consumption (rated value)	750 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	4 A
I²t	1 A²·s
Power loss	
Power loss, typ.	4.65 W
Memory	
Work memory	
• integrated	512 kbyte
• expandable	No
Load memory	
<ul><li>Plug-in (MMC)</li></ul>	Yes
<ul> <li>Plug-in (MMC), max.</li> </ul>	8 Mbyte
<ul> <li>Data management on MMC (after last programming), min.</li> </ul>	10 a
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
<ul><li>without battery</li></ul>	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 may	1.024: Number range: 0 to 7000
Number, max.     Size may.	1 024; Number range: 0 to 7999 64 kbyte
• Size, max.	04 kbyte
Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	o . najo
• 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
<ul> <li>Number of DPV1 alarm OBs</li> </ul>	3; OB 55, 56, 57
<ul> <li>Number of isochronous mode OBs</li> </ul>	1; OB 61
<ul> <li>Number of startup OBs</li> </ul>	1; OB 100
<ul> <li>Number of asynchronous error OBs</li> </ul>	6; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO)
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	Voc
— adjustable — lower limit	Yes 0
— upper limit — upper limit	999
— upper limit	355
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	2
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 (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	
<ul> <li>Retentivity adjustable</li> </ul>	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
• per priority class, max.	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
<ul><li>Inputs</li></ul>	2 048 byte
<ul> <li>Outputs</li> </ul>	2 048 byte
of which distributed	
— 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	
Number of subprocess images, max.	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
• Inputs	16 384
— of which central	1 024
Outputs	16 384
— of which central	1 024
Analog channels	
• Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	230
	2
Number of expansion units, max.  Number of DP masters	3
	4
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	0
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	,
Racks, max.	4
Modules per rack, max.	8
Time of day	
Clock	
<ul> <li>Hardware clock (real-time)</li> </ul>	Yes
<ul> <li>retentive and synchronizable</li> </ul>	Yes
Backup time	6 wk; At 40 °C ambient temperature
<ul> <li>Deviation per day, max.</li> </ul>	10 s; Typ.: 2 s
<ul> <li>Behavior of the clock following POWER-ON</li> </ul>	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup period	the clock continues at the time of day it had when power was switched off
Operating hours counter	
Number	1
Number/Number range	0
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	
Clock synchronization  • supported	Yes
to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes; With DP slave only slave clock
• to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
• on Ethernet via NTP	Yes; As client
Digital inputs	165, 75 01611
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	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	1
Number of RS 422 interfaces	0
1. Interface	
	Integrated RS 485 interface
Interface type Isolated	Yes
Interface types	165
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	200 111/1
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
Point-to-point connection	No
MPI	
Transmission rate, max.	12 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
Global data communication	Yes
<ul> <li>S7 basic communication</li> </ul>	Yes
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	No; but via CP and loadable FB
— S7 communication, as server	Yes
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s
• Number of DP slaves, max.	124
Services	
— PG/OP communication	Yes
— Routing	Yes
<ul> <li>Global data communication</li> </ul>	No
<ul> <li>S7 basic communication</li> </ul>	Yes; I blocks only
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	No
<ul> <li>S7 communication, as server</li> </ul>	Yes
— Equidistance	Yes
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
— SYNC/FREEZE	Yes
<ul> <li>Activation/deactivation of DP slaves</li> </ul>	Yes
<ul> <li>— Activation/deactivation of DP slaves</li> <li>— Number of DP slaves that can be simultaneously activated/deactivated, max.</li> </ul>	Yes 8

Direct date evolungs (alove to slave	Voc. as subscriber
<ul> <li>— Direct data exchange (slave-to-slave communication)</li> </ul>	Yes; as subscriber
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	
Transmission rate, max.	12 Mbit/s
automatic baud rate search	Yes; only with passive interface
<ul> <li>Address area, max.</li> </ul>	32
<ul> <li>User data per address area, max.</li> </ul>	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
Global data communication	No
<ul> <li>S7 basic communication</li> </ul>	No
— S7 communication	Yes
— S7 communication, as client	No
— S7 communication, as server	Yes; Connection configured on one side only
Direct data exchange (slave-to-slave)	Yes
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes; 10/100 Mbit/s
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	Yes
Interface types	
• RJ 45 (Ethernet)	Yes
<ul> <li>Number of ports</li> </ul>	2
integrated switch	Yes
Protocols	
• MPI	No
<ul> <li>PROFINET IO Controller</li> </ul>	Yes; Also simultaneously with IO-Device functionality
PROFINET IO Device	Yes; Also simultaneously with IO Controller functionality
PROFINET CBA	Yes
<ul> <li>PROFIBUS DP master</li> </ul>	No
PROFIBUS DP slave	No
Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP
Web server	Yes; only read function
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
— IRT	Yes
— Shared device	Yes
— Prioritized startup	Yes
<ul> <li>Number of IO devices with prioritized startup, max.</li> </ul>	32

<ul> <li>Number of connectable IO Devices, max.</li> </ul>	128
— Of which IO devices with IRT, max.	64
— of which in line, max.	64
Number of IO Devices with IRT and the option "high flexibility"	128
— of which in line, max.	61
<ul> <li>Number of connectable IO Devices for RT, max.</li> </ul>	128
— of which in line, max.	128
Activation/deactivation of IO Devices	Yes
Number of IO Devices that can be simultaneously	8
activated/deactivated, max.	
<ul> <li>— IO Devices changing during operation (partner ports), supported</li> </ul>	Yes
<ul> <li>Number of IO Devices per tool, max.</li> </ul>	8
<ul> <li>Device replacement without swap medium</li> </ul>	Yes
— Send cycles	250 μs, 500 μs,1 ms; 2 ms, 4 ms (not in the case of IRT with "high flexibility"
— Updating time	option)  250 µs to 512 ms (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	31XO and Of 0 31X, technical Data for more details)
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data consistency, max.	1 024 byte
PROFINET IO Device	1 024 0310
Services	
— PG/OP communication	Yes
— Routing	Yes
S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max. number of
— Or communication	instances: 32
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-
-	Device
— Shared device	Yes
<ul> <li>Number of IO Controllers with shared device, max.</li> </ul>	2
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
— User data per submodule, max.	1 024 byte
PROFINET CBA	
acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	
<ul> <li>Number of connections, max.</li> </ul>	8
Local port numbers used at the system end	0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
Keep-alive function, supported	Yes
Protocols	
PROFIsafe	Yes
Redundancy mode	
Media redundancy	
<ul> <li>Switchover time on line break, typ.</li> </ul>	200 ms; PROFINET MRP
Number of stations in the ring, max.	50
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
<ul> <li>Number of connections, max.</li> </ul>	8
<ul> <li>Data length for connection type 01H, max.</li> </ul>	1 460 byte
<ul> <li>Data length for connection type 11H, max.</li> </ul>	32 768 byte
— several passive connections per port, supported	Yes
• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
<ul> <li>Number of connections, max.</li> </ul>	8

D. I. I. II	00 700   1
— Data length, max.	32 768 byte
• UDP	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	8
— Data length, max.	1 472 byte
Web server	Variable and function
• supported	Yes; only read function
User-defined websites	Yes
Number of HTTP clients	5
communication functions / header	V
PG/OP communication	Yes
Data record routing	Yes
Global data communication	Yes
<ul><li>supported</li><li>Number of GD loops, max.</li></ul>	8
Number of GD packets, max.	8
Number of GD packets, transmitter, max.	8
·	8
<ul><li>Number of GD packets, receiver, max.</li><li>Size of GD packets, max.</li></ul>	o 22 byte
Size of GD packets, max.     Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	LL 010
supported	Yes
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 integrated PROFINET interface and loadable FB or via CP and
a Llear data pariah may	loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs and of the
User data per job, max.	SFCs/FCs of S7 Communication)
S5 compatible communication	
• supported	Yes; via CP and loadable FC
communication functions / PROFINET CBA (with set target commu	
<ul> <li>Setpoint for the CPU communication load</li> </ul>	50 %
number of remote connection partners / with PROFINET CBA	32
<ul> <li>number of technological functions / with PROFINET CBA / for master or slave</li> </ul>	30
number of connections / with PROFINET CBA / for master or slave / total	1 000
data volume / of the input variables / with PROFINET CBA / for master or slave	4 000 byte
data volume / of the output variables / with PROFINET CBA / for master or slave	4 000 byte
number of internal and PROFIBUS interconnections / with PROFINET CBA / maximum	500
data volume / of internal and PROFIBUS interconnections / with PROFINET CBA / for master or slave	4 000 byte
<ul> <li>data volume / with PROFINET CBA / per connection / maximum</li> </ul>	1 400 byte
performance data / PROFINET CBA / remote interconnection	/ with acyclic transfer / header
<ul> <li>update time / of the remote interconnections / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	500 ms
<ul> <li>number of remote connections to input variables / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	100
<ul> <li>number of remote connections to output variables / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	100
<ul> <li>data volume / as user data for remote interconnections with input variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	2 000 byte
<ul> <li>— data volume / as user data for remote interconnections with output variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	2 000 byte
	1 400 byte

interconnections / in the case of acyclic transmission / with PROFINET CBA / per connection / maximum

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performance data / PROFINET CBA / remote interconnection	/ with cyclic transfer / header
<ul> <li>update time / of the remote interconnections / with cyclical transfer / with PROFINET CBA</li> </ul>	10 ms
— number of remote connections to input variables / with PROFINET CBA / with cyclic transfer / maximum	200
<ul> <li>number of remote connections to output variables / with cyclical transfer / with PROFINET CBA / maximum</li> </ul>	200
<ul> <li>data volume / as user data for remote interconnections with input variables / with cyclical transfer / with PROFINET CBA / maximum</li> </ul>	2 000 byte
<ul> <li>— data volume / as user data for remote interconnections with output variables / with cyclical transfer / with PROFINET CBA / maximum</li> </ul>	2 000 byte
<ul> <li>data volume / as user data for remote interconnections / with cyclical transfer / with PROFINET CBA / per connection / maximum</li> </ul>	450 byte
performance data / PROFINET CBA / HMI variables via PROF	INET / acyclic / header
— number of connectable HMI stations / for HMI variables / in the case of acyclic transmission / with PROFINET CBA	3; 2x PN OPC/1x iMap
<ul> <li>update time / of the HMI variables / in the case of acyclic transmission / with PROFINET CBA</li> </ul>	500 ms
<ul> <li>number of HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	200
<ul> <li>— data volume / as user data for HMI variables / in the case of acyclic transmission / with PROFINET CBA / maximum</li> </ul>	2 000 byte
performance data / PROFINET CBA / PROFIBUS proxy functi	onality / header
— product function / with PROFINET CBA /	Yes
PROFIBUS proxy functionality  — number of coupled PROFIBUS devices / with	16
PROFIBUS functionality  — data volume / with PROFIBUS proxy functionality /	240 byte; Slave-dependent
with PROFINET CBA / per connection / maximum	
Number of connections	40
• overall	16
<ul> <li>usable for PG communication</li> <li>reserved for PG communication</li> </ul>	15
adjustable for PG communication, min.	1
adjustable for PG communication, min.	15
usable for OP communication	15
reserved for OP communication	1
	1
<ul><li>— adjustable for OP communication, min.</li><li>— adjustable for OP communication, max.</li></ul>	15
usable for S7 basic communication	14
reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, min.  — adjustable for S7 basic communication, max.	14
aujustable for S7 basic communication, max.      usable for S7 communication	14
	17
— reserved for S7 communication	0
<ul><li>reserved for S7 communication</li><li>adjustable for S7 communication, min.</li></ul>	0 0
<ul> <li>reserved for S7 communication</li> <li>adjustable for S7 communication, min.</li> <li>adjustable for S7 communication, max.</li> </ul>	0 0 14
<ul> <li>reserved for S7 communication</li> <li>adjustable for S7 communication, min.</li> <li>adjustable for S7 communication, max.</li> <li>total number of instances, max.</li> </ul>	0 0 14 32
<ul> <li>reserved for S7 communication</li> <li>adjustable for S7 communication, min.</li> <li>adjustable for S7 communication, max.</li> <li>total number of instances, max.</li> <li>usable for routing</li> </ul>	0 0 14
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions  Number of login stations for message functions, max.	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions  Number of login stations for message functions, max.  Process diagnostic messages	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication Yes
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions  Number of login stations for message functions, max.  Process diagnostic messages simultaneously active Alarm-S blocks, max.	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions  Number of login stations for message functions, max.  Process diagnostic messages simultaneously active Alarm-S blocks, max.  Test commissioning functions	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication  Yes 300
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions Number of login stations for message functions, max.  Process diagnostic messages simultaneously active Alarm-S blocks, max.  Test commissioning functions Status block	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication  Yes 300  Yes; Up to 2 simultaneously
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions  Number of login stations for message functions, max.  Process diagnostic messages simultaneously active Alarm-S blocks, max.  Test commissioning functions  Status block Single step	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication Yes 300  Yes; Up to 2 simultaneously Yes
— reserved for S7 communication — adjustable for S7 communication, min. — adjustable for S7 communication, max.  • total number of instances, max. • usable for routing  S7 message functions Number of login stations for message functions, max.  Process diagnostic messages simultaneously active Alarm-S blocks, max.  Test commissioning functions Status block	0 14 32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.  16; Depending on the configured connections for PG/OP and S7 basic communication  Yes 300  Yes; Up to 2 simultaneously

Status/control variable	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	30
of which status variables, max.	30
	14
of which control variables, max.  Forcing	14
• Forcing	Yes
-	
Forcing, variables     Number of variables, may	Inputs, outputs
Number of variables, max.  Diagnostic buffer.	10
Diagnostic buffer	Yes
• present	
Number of entries, max.	500
— adjustable	No
— of which powerfail-proof	100
Number of entries readable in RUN, max.	499
— adjustable	Yes
— preset	10
Service data	
• can be read out	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
configuration / header	
Configuration software	
• STEP 7	Yes; V5.5 or higher
configuration / programming / header	
<ul> <li>Command set</li> </ul>	see instruction list
<ul> <li>Nesting levels</li> </ul>	8
<ul><li>System functions (SFC)</li></ul>	see instruction list
<ul> <li>System function blocks (SFB)</li> </ul>	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	1.50, That or block i fitally
	40 mm
Width	
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	340 g

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