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
Engineering with	
Programming package	STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
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	
Mains/voltage failure stored energy time	5 ms
• Repeat rate, min.	1 s
Input current	
Current consumption (rated value)	750 mA

Inrush current, typ. 4 A Ift 1 A²-s Power loss Power loss, typ. 4.65 W Memory Work memory • integrated 512 kbyte • expandable No • Size of retentive memory for retentive data blocks Load memory • Plug-in (MMC) Yes • Plug-in (MMC), max. 8 Mbyte • Data management on MMC (after last programming), min. 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. 0.12 µs for floating point arithmetic, typ. 0.45 µs CPU-blocks	Current consumption (in no-load operation), typ.	150 mA
Power loss, typ. 4.65 W Memory Work memory integrated expandable Size of retentive memory for retentive data blocks Load memory Plug-in (MMC) Plug-in (MMC), max. Data management on MMC (after last programming), min. Backup present expresent exit output for five during the foregramming type. CPU processing times for bit operations, typ. for word operations, typ. for fived point arithmetic, typ. for floating point arithmetic, typ. 0.45 µs CPU-blocks		4 A
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Power loss, typ. Memory Work memory integrated expandable Size of retentive memory for retentive data blocks Load memory Plug-in (MMC) Plug-in (MMC), max. Data management on MMC (after last programming), min. Backup present without battery Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. 0.12 µs CPU-blocks CPU-blocks	Power less	
Work memory • integrated		4.65 W
Work memory • integrated	Marram	
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 Plug-in (MMC), max. Data management on MMC (after last programming), min. Backup present without battery Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data CPU processing times for bit operations, typ. 0.05 μs for word operations, typ. for fixed point arithmetic, typ. 0.12 μs for floating point arithmetic, typ. 0.45 μs 		Yes
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CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. CPU-blocks CPU-blocks	• present	Yes; Guaranteed by MMC (maintenance-free)
for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. 0.05 μs 0.09 μs 0.12 μs 0.45 μs	without battery	Yes; Program and data
for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ. for floating point arithmetic, typ. 0.45 μs CPU-blocks	CPU processing times	
for fixed point arithmetic, typ. for floating point arithmetic, typ. 0.12 μs 0.45 μs CPU-blocks		0.05 μs
for floating point arithmetic, typ. 0.45 μs CPU-blocks	for word operations, typ.	0.09 μs
CPU-blocks	for fixed point arithmetic, typ.	0.12 μs
	for floating point arithmetic, typ.	0.45 μs
Number of blocks (total) 1 024: (DBs. FCs. FBs): the maximum number of loadable blocks	CPU-blocks	
can be reduced by the MMC used.	Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	DB	
• Number, max. 1 024; Number range: 1 to 16000	Number, max.	1 024; Number range: 1 to 16000
• Size, max. 64 kbyte	• Size, max.	64 kbyte
FB	FB	
• Number, max. 1 024; Number range: 0 to 7999	Number, max.	1 024; Number range: 0 to 7999
• Size, max. 64 kbyte	• Size, max.	64 kbyte
FC	FC	
• Number, max. 1 024; Number range: 0 to 7999	Number, max.	1 024; Number range: 0 to 7999
• Size, max. 64 kbyte	• Size, max.	64 kbyte
ОВ	ОВ	
• Size, max. 64 kbyte	• Size, max.	64 kbyte
• Number of free cycle OBs 1; OB 1	 Number of free cycle OBs 	1; OB 1
• Number of time alarm OBs 1; OB 10	 Number of time alarm OBs 	1; OB 10
• Number of delay alarm OBs 2; OB 20, 21	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 	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	
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
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)

retentive data area in total	all, 128 KB max.
Flag	
Number, max.	2 048 byte
 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
Address area	
I/O address area	
• 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	
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
period	occurred
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	
• supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• in AS, master	Yes
● in AS, slave	Yes
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	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	1
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface

Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	200 mA
Protocols	
● 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
 S7 basic communication 	Yes
— S7 communication	Yes
 S7 communication, as client 	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
 Global data communication 	No
 S7 basic communication 	Yes; I blocks only
— S7 communication	Yes
 S7 communication, as client 	No
 S7 communication, as server 	Yes
— Equidistance	Yes
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
— SYNC/FREEZE	Yes
 Activation/deactivation of DP slaves 	Yes
 Number of DP slaves that can be 	8
simultaneously activated/deactivated, max.	
 Direct data exchange (slave-to-slave communication) 	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
 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
 S7 communication, as client 	No
 S7 communication, as server 	Yes; Connection configured on one side only
 — Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	PROFINET
Physics	Ethernet RJ45

2. Interface	
Interface type	PROFINET
Physics	Ethernet RJ45
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	
Number of ports	2
• integrated switch	Yes
Protocols	
• MPI	No
 PROFINET IO Controller 	Yes; Also simultaneously with IO-Device functionality
 PROFINET IO Device 	Yes; Also simultaneously with IO Controller functionality
PROFINET CBA	Yes
PROFIBUS DP master	No
PROFIBUS DP slave	No
Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP

• Web server	Yes; only read function
ROFINET 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
 Number of IO devices with prioritized startup, max. 	32
— Number of connectable IO Devices, max.	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
 Number of connectable IO Devices for RT, max. 	128
— of which in line, max.	128
 Activation/deactivation of IO Devices 	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 IO Devices changing during operation (partner ports), supported 	Yes
— Number of IO Devices per tool, max.	8
— Device replacement without swap medium	Yes
— Send cycles	$250~\mu s,500~\mu s,1$ ms; 2 ms, 4 ms (not in the case of IRT with "hig flexibility" option)
— Updating time	250 μs to 512 ms (depending on the operating mode, see Manua "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
— User data consistency, max.	1 024 byte
OFINET IO Device	
Services	
— PG/OP communication	Yes

— Routing	Yes
— S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max.
	number of 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
 Number of IO Controllers with shared device, max. 	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	
 Number of connections, max. 	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	
Redundancy mode	
Media redundancy	
— Switchover time on line break, typ.	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
 Number of connections, max. 	8
 Data length for connection type 01H, max. 	1 460 byte
 Data length for connection type 11H, max. 	32 768 byte
 several passive connections per port, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
 Number of connections, max. 	8
— 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

Supported User-defined websites Number of HTTP clients Sochronous poperation (application synchronized up to terminal) Communication functions PG/OP communication PG/OP communication Supported Number of GD packets, max. Number of GD packets, max. Size of GD packets, max. Size of GD packet (of which consistent), max. Sochronous poperation Sochronous operation (application synchronized up to terminal) Yes Global data communication Yes Global data communication Yes Number of GD loops, max. Number of GD packets, max. Number of GD packets, max. Size of GD packets, max. Size of GD packet (of which consistent), max. Yes Sochronous Number of GD packets, max. Size of GD packet (of which consistent), max. Yes Yes Yes Yes Yes Yes Yes Ye	Web server	
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Sochronous mode Sochronous operation (application synchronized up to terminal) Yes; Via PROFIBUS DP or PROFINET interface	User-defined websites	Yes
Isochronous operation (application synchronized up to terminal) Communication functions PG/OP communication Pata record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, receiver, max. • Size of GD packets, receiver, max. • Size of GD packet (of which consistent), max. Size of GD packet (of which consistent), max. Yes Yes 76 byte • User data per job (of which consistent), max. Six opported • as server • as client • User data per job, max. • User data per job, max. • User data per job, max. • Supported •	Number of HTTP clients	5
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PG/OP communication Pes Data record routing Global data communication Supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Size of GD packets, max. Size of GD packets, max. Size of GD packets, max. Size of GD packets (of which consistent), max. Size of GD packet (of which consistent), max. Supported Source Sou	·	
Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. 22 byte 23 byte 25 byte 27 byte 28 byte 29 byte 27 byte 29 byte 27 byte 29 byte 27 byte 29 byte 27 byte 29 byte 29 byte 20 byte 20 byte 21 byte 22 byte 23 byte 24 byte 25 byte 26 byte 27 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) 27 communication 28 supported 29 byte 29 byte 20 byte 21 byte 22 byte 23 byte 24 byte 25 byte 26 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) 27 communication 28 supported 29 byte 29 byte 20 byte 20 byte 21 byte 22 byte 22 byte 23 byte 25 byte 26 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) 27 communication 28 supported 29 byte 20 byte 21 byte 22 byte 22 byte 22 byte 22 byte 23 byte 24 byte 25 byte 26 byte 27 byte 27 byte 28 byte 29 byte 20 byte 20 byte 20 byte 21 byte 22 byte 21 byte 22 byte 22 byte 27 byte 29 byte 20 byte 20 byte 20 byte 20 byte 21 byte 21 byte 22 byte 22 byte 27 byte 29 byte 20 byte 20 byte 20 byte 21 byte 22 byte 21 byte 22 byte 22 byte 27 byte 29 byte 20 byte 21 byte 21 byte 22 byte 22 byte 27 byte 20 byte 21 byte 22 byte 22 byte 27 byte 20 byte 21 byte 21 byte 22 byte 22 byte 27 byte 29 byte 20 byte 21 byte 22 byte 25 byte 26 byte 26 byte 27 byte 27 byte 29 byte 29 byte 20 byte 20 byte 20 byte 21 byte 21 byte 22 byte 21 byte 21 byte 22 byte 21 byte 22 byte 22 byte 21 byte 21 byte 22 byte 21 byte		Vac
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Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, 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. Yes User data per job, max. User data per job (of which consistent), max. Yes To byte Sommunication Sommunication Ves Sommunication Ves Sommunication User data per job, max. Supported Sommunication Sommunication Sommunication Ves Ves Sommunication Ves Ves Sommunication Ves Ves Sommunication Ves Ves Ves Sommunication Ves Ves Ves Ves Ves Ves Ves Ve		Vac
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Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packets, max. Size of GD packet (of which consistent), max. Yes User data per job, max. User data per job (of which consistent), max. Yes To byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Sommunication Supported supported supported sa server sa sclient User data per job, max. User data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) Sommatible communication supported Sommatible communication supported See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) Sommatible communication Setpoint for the CPU communication load Setpoint for the CPU communication load	• '	
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X_PUT or X_GET as server) S7 communication • supported • as server • as client • user data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) S5 compatible communication • supported PROFINET CBA (at set setpoint communication load) • Setpoint for the CPU communication load 50 %	 User data per job, max. 	76 byte
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User data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) S5 compatible communication supported Yes; via CP and loadable FC PROFINET CBA (at set setpoint communication load) Setpoint for the CPU communication load 50 %	• as server	Yes
and of the SFCs/FCs of S7 Communication) S5 compatible communication • supported PROFINET CBA (at set setpoint communication load) • Setpoint for the CPU communication load 50 %	• as client	
 supported PROFINET CBA (at set setpoint communication load) Setpoint for the CPU communication load 50 % 	User data per job, max.	
PROFINET CBA (at set setpoint communication load) • Setpoint for the CPU communication load 50 %	S5 compatible communication	
• Setpoint for the CPU communication load 50 %	• supported	Yes; via CP and loadable FC
	PROFINET CBA (at set setpoint communication load)	
Number of remote interconnection partners 32	 Setpoint for the CPU communication load 	50 %
··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	 Number of remote interconnection partners 	32
Number of functions, master/slave 30	 Number of functions, master/slave 	30
Total of all master/slave connections 1 000	Total of all master/slave connections	1 000
Data length of all incoming connections 4 000 byte	Data length of all incoming connections	4 000 byte
master/slave, max.		
 Data length of all outgoing connections 4 000 byte master/slave, max. 		4 000 byte

 Number of device-internal and PROFIBUS interconnections 	500
 Data length of device-internal und PROFIBUS interconnections, max. 	4 000 byte
 Data length per connection, max. 	1 400 byte
Remote interconnections with acyclic transmission	
 — Sampling frequency: Sampling time, min. 	500 ms
 Number of incoming interconnections 	100
 Number of outgoing interconnections 	100
 Data length of all incoming interconnections, max. 	2 000 byte
 Data length of all outgoing interconnections, max. 	2 000 byte
 Data length per connection, max. 	1 400 byte
Remote interconnections with cyclic transmission	
 Transmission frequency: Transmission interval, min. 	10 ms
 Number of incoming interconnections 	200
 Number of outgoing interconnections 	200
 Data length of all incoming interconnections, max. 	2 000 byte
 Data length of all outgoing interconnections, max. 	2 000 byte
 Data length per connection, max. 	450 byte
HMI variables via PROFINET (acyclic)	
 Number of stations that can log on for HMI variables (PN OPC/iMap) 	3; 2x PN OPC/1x iMap
— HMI variable updating	500 ms
 Number of HMI variables 	200
 Data length of all HMI variables, max. 	2 000 byte
PROFIBUS proxy functionality	
— supported	Yes
 Number of linked PROFIBUS devices 	16
 Data length per connection, max. 	240 byte; Slave-dependent
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 	14
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, 	0
min.	
 adjustable for S7 basic communication, 	14
max.	
usable for S7 communication	14
 reserved for S7 communication 	0
— adjustable for S7 communication, min.	0
— adjustable for S7 communication, max.	14
• total number of instances, max.	32
usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.

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

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. 	30	
— of which status variables, max.	30	
— of which control variables, max.	14	
Forcing		
Forcing	Yes	
 Forcing, variables 	Inputs, outputs	
 Number of variables, max. 	10	
Diagnostic buffer		
• present	Yes	
 Number of entries, max. 	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		
Configuration software		
• STEP 7	Yes; V5.5 or higher	
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.	340 g	
last modified:	05/13/2020	