## **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
<ul> <li>Repeat rate, min.</li> </ul>	1 s
Input current	
Current consumption (rated value)	750 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	4 A
l²t	1 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	4.65 W
Memory	
Work memory	
<ul><li>integrated</li></ul>	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 y
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
PU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
<ul><li>Number, max.</li></ul>	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
<ul><li>Number, max.</li></ul>	1 024; Number range: 0 to 7999
Size, max.	64 kbyte
FC	
<ul><li>Number, max.</li></ul>	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
<ul><li>Size, max.</li></ul>	64 kbyte
<ul> <li>Number of free cycle OBs</li> </ul>	1; OB 1
<ul> <li>Number of time alarm OBs</li> </ul>	1; OB 10
<ul> <li>Number of delay alarm OBs</li> </ul>	2; OB 20, 21
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	4; OB 32, 33, 34, 35
<ul> <li>Number of process alarm OBs</li> </ul>	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)
<ul> <li>Number of synchronous error OBs</li> </ul>	2; OB 121, 122
Nesting depth	
<ul> <li>per priority class</li> </ul>	16
<ul> <li>additional within an error OB</li> </ul>	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	0 000 0

• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	Committee Company by the anni dapaterity
Retentive data area (incl. timers, counters, flags), max.	128 kbyte
Flag	120 kbyte
• Size, max.	2 048 byte
Retentivity available	Yes; MB 0 to MB 2 047
Retentivity available     Retentivity preset	MB 0 to MB 15
Number of clock memories	
Data blocks	8; 1 memory byte
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity adjustable     Retentivity preset	Yes
Local data	100
per priority class, max.	32 768 byte; Max. 2048 bytes per block
Address area	02 100 s)(0, max 20 10 s)(00 por s.100)
I/O address area	
• Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	2 0 10 Dylo
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	20100910
• Inputs	2 048 byte
Outputs	2 048 byte
Inputs, adjustable	2 048 byte
<ul><li>Outputs, adjustable</li><li>Inputs, default</li></ul>	2 048 byte
Outputs, default	128 byte 128 byte
Subprocess images	120 byte
Number of subprocess images, max.	1; With PROFINET IO, the length of the user data is limited to 1600
• Number of Subprocess images, max.	bytes
Digital channels	
• Inputs	16 384
— of which central	1 024
<ul><li>Outputs</li></ul>	16 384
— of which central	1 024
Analog channels	
• Inputs	1 024
— of which central	256
<ul><li>Outputs</li></ul>	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
<ul> <li>Modules per rack, max.</li> </ul>	8
Time of day	
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	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	Clock continues to run with the time at which the power failure occurred
period  Operating hours counter	
Operating hours counter  • Number	1
	0
Number/Number range     Panga of values	
Range of values     Cranularity	0 to 2^31 hours (when using SFC 101) 1 h
Granularity     retentive	Yes: Must be restarted at each restart
Clock synchronization	Tes, Must be restarted at each restart
-	Yes
<ul><li>supported</li><li>to MPI, master</li></ul>	Yes
• to MPI, master	Yes
<ul><li>to DP, master</li><li>to DP, slave</li></ul>	Yes; With DP slave only slave clock Yes
• in AS, master	Yes
• in AS, slave	Yes
on Ethernet via NTP	
	Yes; As client
Digital inputs	0
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
Isolated	Yes
Interface types	
• RS 485	Yes
<ul> <li>Output current of the interface, max.</li> </ul>	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
. S. S. Sommanioadon	

— 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
— 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
<ul> <li>Activation/deactivation of DP slaves</li> </ul>	Yes
<ul> <li>Number of DP slaves that can be simultaneously activated/deactivated, max.</li> </ul>	8
<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	
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul> <li>automatic baud rate search</li> </ul>	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
— S7 basic communication	No
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	No
<ul> <li>S7 communication, as server</li> </ul>	Yes; Connection configured on one side only
<ul> <li>Direct data exchange (slave-to-slave</li> </ul>	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	
<ul> <li>RJ 45 (Ethernet)</li> </ul>	Yes
<ul> <li>Number of ports</li> </ul>	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
<ul> <li>PROFIBUS DP master</li> </ul>	No
<ul> <li>PROFIBUS DP slave</li> </ul>	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
<ul> <li>Shared device</li> </ul>	Yes
<ul> <li>Prioritized startup</li> </ul>	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
<ul> <li>Of which IO devices with IRT, max.</li> </ul>	64
— of which in line, max.	64
<ul> <li>Number of IO Devices with IRT and the option "high flexibility"</li> </ul>	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
<ul> <li>Activation/deactivation of IO Devices</li> </ul>	Yes
<ul> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	8
<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	$250~\mu s,500~\mu s,1$ ms; $2$ ms, $4$ ms (not in the case of IRT with "high flexibility" option)
— Updating time	$250~\mu s$ to $512~ms$ (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	
— Inputs, max.	2 kbyte
<ul><li>Outputs, max.</li></ul>	2 kbyte
<ul> <li>User data consistency, max.</li> </ul>	1 024 byte
PROFINET IO Device	
Services	
<ul> <li>PG/OP communication</li> </ul>	Yes
— Routing	Yes
— S7 communication	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
<ul> <li>Isochronous mode</li> </ul>	No
— IRT	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FE 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
— Osei data per submodule, max.	

acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	165
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	
<ul> <li>Switchover time on line break, typ.</li> </ul>	200 ms; PROFINET MRP
<ul> <li>Number of stations in the ring, max.</li> </ul>	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
<ul> <li>several passive connections per port, supported</li> </ul>	Yes
• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
<ul> <li>Number of connections, max.</li> </ul>	8
<ul><li>— Data length, max.</li></ul>	32 768 byte
• UDP	Yes; via integrated PROFINET interface and loadable FBs
<ul> <li>Number of connections, max.</li> </ul>	8
<ul><li>— Data length, max.</li></ul>	1 472 byte
Web server	
<ul><li>supported</li></ul>	Yes; only read function
<ul> <li>User-defined websites</li> </ul>	Yes
<ul> <li>Number of HTTP clients</li> </ul>	5
Communication functions	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	
Global data communication  • supported	Yes
	Yes 8
• supported	
<ul><li>supported</li><li>Number of GD loops, max.</li></ul>	8
<ul><li>supported</li><li>Number of GD loops, max.</li><li>Number of GD packets, max.</li></ul>	8 8
<ul> <li>supported</li> <li>Number of GD loops, max.</li> <li>Number of GD packets, max.</li> <li>Number of GD packets, transmitter, max.</li> </ul>	8 8 8
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<ul> <li>supported</li> <li>Number of GD loops, max.</li> <li>Number of GD packets, max.</li> <li>Number of GD packets, transmitter, max.</li> <li>Number of GD packets, receiver, max.</li> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> <li>S7 communication</li> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>S5 compatible communication</li> <li>supported</li> </ul>	8 8 8 22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)  Yes; via CP and loadable FC
<ul> <li>supported</li> <li>Number of GD loops, max.</li> <li>Number of GD packets, max.</li> <li>Number of GD packets, transmitter, max.</li> <li>Number of GD packets, receiver, max.</li> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> <li>S7 communication</li> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>S5 compatible communication</li> <li>supported</li> <li>PROFINET CBA (at set setpoint communication load)</li> </ul>	8 8 8 22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)  Yes; via CP and loadable FC
<ul> <li>supported</li> <li>Number of GD loops, max.</li> <li>Number of GD packets, max.</li> <li>Number of GD packets, transmitter, max.</li> <li>Number of GD packets, receiver, max.</li> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> <li>S7 communication</li> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>S5 compatible communication</li> <li>supported</li> <li>PROFINET CBA (at set setpoint communication load)</li> <li>Setpoint for the CPU communication load</li> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> </ul>	8 8 8 22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)  Yes; via CP and loadable FC
<ul> <li>supported</li> <li>Number of GD loops, max.</li> <li>Number of GD packets, max.</li> <li>Number of GD packets, transmitter, max.</li> <li>Number of GD packets, receiver, max.</li> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> <li>S7 communication</li> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>S5 compatible communication</li> <li>supported</li> <li>PROFINET CBA (at set setpoint communication load)</li> <li>Setpoint for the CPU communication load</li> <li>Number of remote interconnection partners</li> </ul>	8 8 8 22 byte 22 byte  Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication)  Yes; via CP and loadable FC

Data length of all incoming connections master/slave, max.	4 000 byte
Data length of all outgoing connections master/slave, max.	4 000 byte
<ul> <li>Number of device-internal and PROFIBUS interconnections</li> </ul>	500
<ul> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> </ul>	4 000 byte
Data length per connection, max.	1 400 byte
Remote interconnections with acyclic transmission	
— Sampling interval, min.	500 ms
<ul> <li>Number of incoming interconnections</li> </ul>	100
Number of outgoing interconnections	100
<ul> <li>Data length of all incoming interconnections, max.</li> </ul>	2 000 byte
<ul> <li>Data length of all outgoing interconnections, max.</li> </ul>	2 000 byte
<ul> <li>Data length per connection, max.</li> </ul>	1 400 byte
Remote interconnections with cyclic transmission	
<ul> <li>Transmission frequency: Transmission interval, min.</li> </ul>	10 ms
<ul> <li>Number of incoming interconnections</li> </ul>	200
<ul> <li>Number of outgoing interconnections</li> </ul>	200
<ul> <li>Data length of all incoming interconnections, max.</li> </ul>	2 000 byte
<ul> <li>Data length of all outgoing interconnections, max.</li> </ul>	2 000 byte
<ul> <li>Data length per connection, max.</li> </ul>	450 byte
HMI variables via PROFINET (acyclic)	
<ul> <li>Number of stations that can log on for HMI variables (PN OPC/iMap)</li> </ul>	3; 2x PN OPC/1x iMap
<ul> <li>HMI variable updating</li> </ul>	500 ms
<ul> <li>Number of HMI variables</li> </ul>	200
<ul> <li>Data length of all HMI variables, max.</li> </ul>	2 000 byte
PROFIBUS proxy functionality	
— supported	Yes
<ul> <li>Number of linked PROFIBUS devices</li> </ul>	16
<ul> <li>Data length per connection, max.</li> </ul>	240 byte; Slave-dependent
umber of connections	
• overall	16
<ul> <li>usable for PG communication</li> </ul>	15
<ul> <li>reserved for PG communication</li> </ul>	1
<ul> <li>adjustable for PG communication, min.</li> </ul>	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, min.	0
adjustable for S7 basic communication, max.	14
usable for S7 communication	14
reserved for S7 communication	0
	0
adjustable for S7 communication, min.	
— adjustable for S7 communication, max.	14
<ul> <li>total number of instances, max.</li> </ul>	32 X4 MBI 40 X4 BB 4 24 X4 BB 1
usable for routing  message functions	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.

	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	
<ul> <li>Status/control variable</li> </ul>	Yes
<ul><li>Variables</li></ul>	Inputs, outputs, memory bits, DB, times, counters
<ul> <li>Number of variables, max.</li> </ul>	30
<ul><li>of which status variables, max.</li></ul>	30
— of which control variables, max.	14
Forcing	
<ul><li>Forcing</li></ul>	Yes
<ul><li>Forcing, variables</li></ul>	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• present	Yes
<ul> <li>Number of entries, max.</li> </ul>	500
— adjustable	No
<ul><li>— of which powerfail-proof</li></ul>	100
<ul> <li>Number of entries readable in RUN, max.</li> </ul>	499
— adjustable	Yes
— preset	10
Service data	
can be read out	Yes
Ambient conditions	
Ambient temperature during operation	
• min	0 °C
• min.	0 0
<ul><li>• min.</li><li>• max.</li></ul>	60 °C
• max.	
• max. Configuration	60 °C
<ul><li>max.</li><li>Configuration</li><li>Configuration software</li><li>STEP 7</li></ul>	
max.  Configuration  Configuration software	60 °C
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> </ul>	60 °C  Yes; V5.5 or higher
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> </ul>	60 °C  Yes; V5.5 or higher  see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> </ul>	Yes; V5.5 or higher  see instruction list 8
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>LAD</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>LAD</li> <li>FBD</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>LAD</li> <li>FBD</li> <li>STL</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list Yes Yes Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software <ul> <li>STEP 7</li> </ul> </li> <li>Programming <ul> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> </ul> </li> <li>Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>CFC</li> </ul> </li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>CFC</li> <li>GRAPH</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> <li>Know-how protection</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> <li>Know-how protection</li> <li>User program protection/password protection</li> <li>Block encryption</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> <li>Know-how protection</li> <li>User program protection/password protection</li> <li>Block encryption</li> <li>Dimensions</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> <li>Know-how protection</li> <li>User program protection/password protection</li> <li>Block encryption</li> <li>Dimensions</li> <li>Width</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software <ul> <li>STEP 7</li> </ul> </li> <li>Programming <ul> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> </ul> </li> <li>Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>CFC</li> <li>GRAPH</li> <li>HiGraph®</li> </ul> </li> <li>Know-how protection <ul> <li>User program protection/password protection</li> <li>Block encryption</li> </ul> </li> <li>Dimensions</li> <li>Width</li> <li>Height</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software <ul> <li>STEP 7</li> </ul> </li> <li>Programming <ul> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> </ul> </li> <li>Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>CFC</li> <li>GRAPH</li> <li>HiGraph®</li> </ul> </li> <li>Know-how protection <ul> <li>User program protection/password protection</li> <li>Block encryption</li> </ul> </li> <li>Dimensions</li> <li>Width</li> <li>Height</li> <li>Depth</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list Yes
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software</li> <li>STEP 7</li> <li>Programming</li> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> <li>Programming language</li> <li>— LAD</li> <li>— FBD</li> <li>— STL</li> <li>— SCL</li> <li>— CFC</li> <li>— GRAPH</li> <li>— HiGraph®</li> <li>Know-how protection</li> <li>User program protection/password protection</li> <li>Block encryption</li> <li>Dimensions</li> <li>Width</li> <li>Height</li> <li>Depth</li> <li>Weights</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>max.</li> <li>Configuration</li> <li>Configuration software <ul> <li>STEP 7</li> </ul> </li> <li>Programming <ul> <li>Command set</li> <li>Nesting levels</li> <li>System functions (SFC)</li> <li>System function blocks (SFB)</li> </ul> </li> <li>Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>CFC</li> <li>GRAPH</li> <li>HiGraph®</li> </ul> </li> <li>Know-how protection <ul> <li>User program protection/password protection</li> <li>Block encryption</li> </ul> </li> <li>Dimensions</li> <li>Width</li> <li>Height</li> <li>Depth</li> </ul>	Yes; V5.5 or higher  see instruction list 8 see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye