**Data sheet** 

## 6ES7315-2EH14-0AB0



SIMATIC S7-300 CPU 315-2 PN/DP, Central processing unit with 384 KB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

01
V3.2
Yes; Via PROFIBUS DP or PROFINET interface
STEP 7 V5.5 or higher
24 V
20.4 V
28.8 V
2 A min.
5 ms
1 s
750 mA
150 mA
4 A
1 A <sup>2</sup> ·s
4.65 W
384 kbyte
No
Yes
8 Mbyte
10 y
Yes; Guaranteed by MMC (maintenance-free)
Yes; Program and data
Yes; Program and data 0.05 μs
Yes; Program and data

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	
<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	
• Size, max.	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	
per priority class	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	Criminos (minos criny by ru un capacity)
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	To Total artis
— lower limit	10 ms
— upper limit	9 990 s
— upper limit IEC timer	0 000 0
	Voc
• present	Yes SFB
• Type	
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	o, i memory byte
	Voc: via non ratain property on DP
Retentivity adjustable     Retentivity project	Yes; via non-retain property on DB Yes
Retentivity preset	tes
Local data	20 700 h. to May 2040 h. tag man black
per priority class, max.	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	2 048 byte
Outputs	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
Trainbor or 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
Outputs	1 024
— of which central	256
Hardware configuration	200
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
Deviation per day, max.	10 s; Typ.: 2 s
Behavior of the clock following POWER-ON     Poblavior of the clock following expire of backup	Clock continues running after POWER OFF
<ul> <li>Behavior of the clock following expiry of backup period</li> </ul>	the clock continues at the time of day it had when power was switched off
Operating hours counter	
<ul> <li>Number</li> </ul>	1

AL LONG	
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
<ul><li>supported</li></ul>	Yes
• to MPI, master	Yes
<ul><li>• to MPI, slave</li></ul>	Yes
<ul><li>to DP, master</li></ul>	Yes; With DP slave only slave clock
<ul><li>to DP, slave</li></ul>	Yes
<ul><li>• in AS, master</li></ul>	Yes
<ul><li>• in AS, slave</li></ul>	Yes
<ul> <li>on Ethernet via NTP</li> </ul>	Yes; As client
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0
Analog outputs	
	0
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	1; 2 ports (switch) RJ45
Number of PROFINET interfaces	1; 2 ports (switch) RJ45
Number of RS 485 interfaces	1; Combined MPI / PROFIBUS DP
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
<ul> <li>PROFIBUS DP master</li> </ul>	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  — S7 communication, as client	No; but via CP and loadable FB
— S7 communication, as server	Yes
PROFIBUS DP master	166
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	124
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No Year I blacks only
— 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
<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
Direct data exchange (slave-to-slave)	Yes; as subscriber
communication)	
— 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
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	
<ul><li>— PG/OP communication</li></ul>	Yes
— Routing	Yes; Only with active interface
<ul> <li>Global data communication</li> </ul>	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	
Transfer memory — Inputs	244 byte
·	244 byte 244 byte
— Inputs	
— Inputs — Outputs	
— Inputs — Outputs 2. Interface	244 byte
Inputs Outputs  2. Interface Interface type	244 byte PROFINET
- Inputs - Outputs  2. Interface Interface type Isolated	244 byte  PROFINET  Yes
Inputs Outputs  2. Interface Interface type Isolated automatic detection of transmission rate	244 byte  PROFINET  Yes  Yes; 10/100 Mbit/s
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation	PROFINET Yes Yes; 10/100 Mbit/s Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet)	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes No
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes  Yes  Yes  Yes  Y
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFIBUS DP master • PROFIBUS DP slave	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes Yes  Yes  Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes Yes  Yes  Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No No Yes; Via TCP/IP, ISO on TCP, and UDP
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes  Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No No Yes; Via TCP/IP, ISO on TCP, and UDP Yes
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy PROFINET IO Controller	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes  Yes  Yes  Yes  Y
- Inputs - Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols • MPI • PROFINET IO Controller • PROFINET IO Device • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max.	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes  Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No No Yes; Via TCP/IP, ISO on TCP, and UDP Yes
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max. Services	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No Yes; Via TCP/IP, ISO on TCP, and UDP Yes Yes  100 Mbit/s
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max.  Services — PG/OP communication	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes  Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No No Yes; Via TCP/IP, ISO on TCP, and UDP Yes Yes  100 Mbit/s
— Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • MPI • PROFINET IO Controller • PROFINET IO Device • PROFINET CBA • PROFIBUS DP master • PROFIBUS DP slave • Open IE communication • Web server • Media redundancy  PROFINET IO Controller • Transmission rate, max. Services	PROFINET Yes Yes; 10/100 Mbit/s Yes Yes Yes Yes Yes Yes  Yes  Yes  No Yes; Also simultaneously with IO-Device functionality Yes; Also simultaneously with IO Controller functionality Yes No No Yes; Via TCP/IP, ISO on TCP, and UDP Yes Yes  100 Mbit/s

	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
<ul><li>of which in line, max.</li></ul>	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
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 "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
— Outputs, max.	2 kbyte
— User data consistency, max.	1 024 byte
PROFINET IO Device	
PROFINET IO Device Services	
	Yes
Services  — PG/OP communication  — Routing	Yes
Services  — PG/OP communication  — Routing  — S7 communication	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
Services  — PG/OP communication  — Routing  — S7 communication	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device,	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA  • acyclic transmission	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA  • acyclic transmission  • cyclic transmission	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA  • acyclic transmission  • cyclic transmission  Open IE communication	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA  • acyclic transmission  • cyclic transmission  Open IE communication  • Number of connections, max.	Yes Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes Yes
Services  — PG/OP communication  — Routing  — S7 communication  — Isochronous mode  — IRT  — PROFlenergy  — Shared device  — Number of IO Controllers with shared device, max.  Transfer memory  — Inputs, max.  — Outputs, max.  Submodules  — Number, max.  — User data per submodule, max.  PROFINET CBA  • acyclic transmission  • cyclic transmission  Open IE communication  • Number of connections, max.  • Local port numbers used at the system end	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes Yes Yes Yes Yes
Services  — PG/OP communication  — Routing — S7 communication  — Isochronous mode — IRT — PROFlenergy  — Shared device — Number of IO Controllers with shared device, max.  Transfer memory — Inputs, max. — Outputs, max. Submodules — Number, max. — User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission  Open IE communication  • Number of connections, max.  • Local port numbers used at the system end  • Keep-alive function, supported	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes Yes  8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964,
Services  — PG/OP communication  — Routing — S7 communication  — Isochronous mode — IRT — PROFlenergy  — Shared device — Number of IO Controllers with shared device, max.  Transfer memory — Inputs, max. — Outputs, max. Submodules — Number, max. — User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission  Open IE communication  • Number of connections, max.  • Local port numbers used at the system end	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes Yes Yes Yes Yes
Services  — PG/OP communication  — Routing — S7 communication  — Isochronous mode — IRT — PROFlenergy  — Shared device — Number of IO Controllers with shared device, max.  Transfer memory — Inputs, max. — Outputs, max. Submodules — Number, max. — User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission • cyclic transmission  • Number of connections, max. • Local port numbers used at the system end  • Keep-alive function, supported  Protocols  PROFIsafe	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device 64 1 024 byte  Yes Yes Yes Yes Yes Yes
Services  — PG/OP communication  — Routing — S7 communication  — Isochronous mode — IRT — PROFlenergy  — Shared device — Number of IO Controllers with shared device, max.  Transfer memory — Inputs, max. — Outputs, max. Submodules — Number, max. — User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission  • cyclic transmission  Open IE communication  • Number of connections, max. • Local port numbers used at the system end  • Keep-alive function, supported	Yes; With loadable FBs, max. configurable connections: 14, max. number of instances: 32 No Yes Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device Yes 2  1 440 byte; Per IO Controller with shared device 1 440 byte; Per IO Controller with shared device  64 1 024 byte  Yes Yes Yes  8 0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535 Yes

Switchover time on line break typ	200 ms; PROFINET MRP
Switchover time on line break, typ.	50
— Number of stations in the ring, max.	50
Open IE communication  • TCP/IP	Vacuus integrated DDOCINET interface and leadable EDa
	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.  Pate leastly far assessing type 0411, may.	8
— Data length for connection type 01H, max.	1 460 byte
Data length for connection type 11H, max.	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
— Number of connections, max.	8
Data length, max.	32 768 byte
■ Data length, max.      ■ UDP	
	Yes; via integrated PROFINET interface and loadable FBs 8
Number of connections, max.  Data length, max.	
— Data length, max.	1 472 byte
Web server	Vac
• supported	Yes
User-defined websites	Yes
Number of HTTP clients	5
communication functions / header	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	
• supported	Yes
<ul> <li>Number of GD loops, max.</li> </ul>	8
<ul> <li>Number of GD packets, max.</li> </ul>	8
<ul> <li>Number of GD packets, transmitter, max.</li> </ul>	8
<ul> <li>Number of GD packets, receiver, max.</li> </ul>	8
Size of GD packets, max.	22 byte
<ul> <li>Size of GD packet (of which consistent), max.</li> </ul>	22 byte
S7 basic communication	
• supported	Yes
User data per job, max.	76 byte
<ul> <li>User data per job (of which consistent), max.</li> </ul>	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
	X_GET as server)
S7 communication	
S7 communication  • supported	Yes
	Yes Yes
• supported	
<ul><li>supported</li><li>as server</li></ul>	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
<ul><li>supported</li><li>as server</li><li>as client</li></ul>	Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB
<ul><li>supported</li><li>as server</li><li>as client</li></ul>	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)
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul>	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
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul>	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>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul>	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>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the communication)	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  communication load) / header
<ul> <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>communication functions / PROFINET CBA (with set target of Setpoint for the CPU communication load</li> </ul>	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 communication load) / header 50 %
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of Setpoint for the CPU communication load <ul> <li>Number of remote interconnection partners</li> </ul>	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  communication load) / header  50 % 32
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the CPU communication load) <ul> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> </ul>	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 communication load) / header 50 % 32 30
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the communication for the CPU communication load <ul> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections</li> </ul>	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  communication load) / header  50 %  32  30  1 000
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the communication for the CPU communication load <ul> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections</li> </ul>	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  communication load) / header  50 %  32  30  1 000  4 000 byte
<ul> <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>communication functions / PROFINET CBA (with set target of the Setpoint for the CPU communication load</li> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS</li> </ul>	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  communication load) / header  50 %  32  30  1 000  4 000 byte
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>S5 compatible communication <ul> <li>supported</li> </ul> </li> <li>communication functions / PROFINET CBA (with set target of the communication functions of the communication load)</li> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> </ul>	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  communication load) / header  50 %  32  30  1 000  4 000 byte  4 000 byte  500  4 000 byte
<ul> <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>communication functions / PROFINET CBA (with set target of the communication functions of the communication load)</li> <li>Number of the communication load</li> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> <li>Data length per connection, max.</li> </ul>	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  communication load) / header  50 %  32  30  1 000  4 000 byte  4 000 byte  500  4 000 byte
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the communication for the CPU communication load <ul> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> <li>Data length per connection, max.</li> <li>Data length per connection, max.</li> </ul>	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 communication load) / header  50 % 32 30 1 000 4 000 byte  4 000 byte  500 4 000 byte  1 400 byte ction / with acyclic transfer / header
<ul> <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>communication functions / PROFINET CBA (with set target of the supported)</li> <li>Setpoint for the CPU communication load</li> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> <li>Data length per connection, max.</li> <li>para length per connection, max.</li> <li>performance data / PROFINET CBA / remote interconnections</li> </ul>	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  communication load) / header  50 %  32  30  1 000  4 000 byte  4 000 byte  500  4 000 byte  1 400 byte  ction / with acyclic transfer / header  500 ms
<ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> communication functions / PROFINET CBA (with set target of the communication for the CPU communication load <ul> <li>Number of remote interconnection partners</li> <li>Number of functions, master/slave</li> <li>Total of all master/slave connections</li> <li>Data length of all incoming connections master/slave, max.</li> <li>Data length of all outgoing connections master/slave, max.</li> <li>Number of device-internal and PROFIBUS interconnections</li> <li>Data length of device-internal und PROFIBUS interconnections, max.</li> <li>Data length per connection, max.</li> <li>Data length per connection, max.</li> </ul>	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 communication load) / header  50 % 32 30 1 000 4 000 byte  4 000 byte  500 4 000 byte  1 400 byte ction / with acyclic transfer / header

<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
performance data / PROFINET CBA / remote interconne	ction / with cyclic transfer / header
— Transmission frequency: Transmission interval,	10 ms
min.	10 1113
<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,</li> </ul>	2 000 byte
max.	
<ul> <li>Data length of all outgoing interconnections, max.</li> </ul>	2 000 byte
Data length per connection, max.	450 byte
performance data / PROFINET CBA / HMI variables via I	•
Number of stations that can log on for HMI	3; 2x PN OPC/1x iMap
variables (PN OPC/iMap)	0, 2X1 14 01 0/1X iividp
<ul> <li>HMI variable updating</li> </ul>	500 ms
— Number of HMI variables	200
<ul> <li>Data length of all HMI variables, max.</li> </ul>	2 000 byte
performance data / PROFINET CBA / PROFIBUS proxy	·
— supported	Yes
Supported      Number of linked PROFIBUS devices	16
Data length per connection, max.	240 byte; Slave-dependent
Number of connections	240 byte, Stave-dependent
	16
• overall	16
usable for PG communication	15
— reserved for PG communication	1
<ul> <li>adjustable for PG communication, min.</li> </ul>	1
<ul> <li>adjustable for PG communication, max.</li> </ul>	15
<ul> <li>usable for OP communication</li> </ul>	15
<ul> <li>reserved for OP communication</li> </ul>	1
<ul> <li>adjustable for OP communication, min.</li> </ul>	1
<ul> <li>adjustable for OP communication, max.</li> </ul>	15
<ul> <li>usable for S7 basic communication</li> </ul>	14
<ul> <li>reserved for S7 basic communication</li> </ul>	0
<ul> <li>adjustable for S7 basic communication, min.</li> </ul>	0
<ul> <li>adjustable for S7 basic communication, max.</li> </ul>	14
<ul> <li>usable for S7 communication</li> </ul>	14
<ul> <li>reserved for S7 communication</li> </ul>	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
- double for routing	(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
<ul> <li>Variables</li> </ul>	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	
. 5.5119	

• Forcing	Yes
<ul><li>Forcing</li><li>Forcing, variables</li></ul>	Inputs, outputs
<ul><li>Number of variables, max.</li></ul>	10
Diagnostic buffer	10
• present	Yes
<ul><li>Number of entries, max.</li></ul>	500
	No
<ul><li>— adjustable</li><li>— of which powerfail-proof</li></ul>	100; Only the last 100 entries are retained
Number of entries readable in RUN, max.	499
	Yes; From 10 to 499
— adjustable	10
— preset  Service data	10
• can be read out	Yes
Ambient conditions	165
Ambient temperature during operation	
min.	0 °C
• max.	60 °C
	00 C
configuration / header	
Configuration software	Vest VE F or higher
STEP 7  configuration / programming / bonder	Yes; V5.5 or higher
configuration / programming / header	and inchreation list
Command set     Neeting levels	see instruction list
Nesting levels     Contact functions (CEC)	8
System functions (SFC)     System function blocks (SFR)	see instruction list
System function blocks (SFB)  Programming longuage	see instruction list
Programming language — LAD	Yes
— FBD	Yes
— FBD — STL	Yes
— STL — SCL	Yes
— CFC — GRAPH	Yes Yes
— GRAPH — HiGraph®	Yes
— niGraph®  Know-how protection	1 53
User program protection/password protection	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	165, WILL OF DIOCK FITVACY
	40 mans
Width	40 mm
Height	125 mm
Depth	130 mm
Weights	040
Weight, approx.	340 g
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