## 6ES7416-5HS06-0AB0

**Data sheet** 



SIMATIC S7-400H, CPU 416-5H, central processing unit for S7-400H and S7-400F/FH, 5 interfaces: 1x MPI/DP, 1x DP, 1x PN and 2 for sync modules, 16 MB memory (10 MB data/6 MB program)

General information	
Product type designation	CPU 416-5H PN/DP
HW functional status	1
Firmware version	V6.0
Product function	
Isochronous mode	No
Engineering with	
<ul> <li>Programming package</li> </ul>	As of STEP 7 V5.5 SP2 with HF1
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	0 μs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.6 A
from backplane bus 5 V DC, max.	1.9 A
from backplane bus 24 V DC, max.	150 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	7.5 W
Memory	
Type of memory	RAM
Work memory	
<ul><li>integrated</li></ul>	16 Mbyte
<ul><li>integrated (for program)</li></ul>	6 Mbyte
<ul><li>integrated (for data)</li></ul>	10 Mbyte
expandable	No
Load memory	
<ul> <li>expandable FEPROM</li> </ul>	Yes; with Memory Card (FLASH)
<ul> <li>expandable FEPROM, max.</li> </ul>	64 Mbyte
<ul><li>integrated RAM, max.</li></ul>	1 Mbyte
expandable RAM	Yes
expandable RAM, max.	64 Mbyte
Backup	
• present	Yes
<ul><li>with battery</li></ul>	Yes; all data
without battery	No
Battery	
Backup battery	

Backup current, max.	1 000 μΑ
Backup time, max.	Dealt with in the module data manual with the secondary conditions and the factors of influence
<ul> <li>Feeding of external backup voltage to CPU</li> </ul>	5 V DC to 15 V DC
CPU processing times	0.200.0020
for bit operations, typ.	12.5 ns
for word operations, typ.	12.5 ns
for fixed point arithmetic, typ.	12.5 ns
for floating point arithmetic, typ.	25 ns
CPU-blocks	20110
DB	
Number, max.	16 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	O-F NOVICE
Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC FC	
Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Number, max.	see instruction list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	8; OB 10-17
Number of delay alarm OBs	4; OB 20-23
Number of cyclic interrupt OBs	9; OB 30-38
Number of process alarm OBs	8; OB 40-47
Number of DPV1 alarm OBs	3; OB 55-57
Number of startup OBs	2; OB 100, 102
Number of asynchronous error OBs	9; OB 80-88
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	
per priority class	24
additional within an error OB	2
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	2 048
Retentivity	
	Yes
— adjustable	
— adjustable — preset	No times retentive
•	No times retentive
— preset	No times retentive  10 ms
— preset Time range	
— preset Time range — lower limit	10 ms
preset Time range lower limit upper limit	10 ms
— preset  Time range  — lower limit  — upper limit  IEC timer	10 ms 9 990 s
— preset  Time range  — lower limit  — upper limit  IEC timer  ● present	10 ms 9 990 s Yes
preset Time range lower limit upper limit IEC timer  • present • Type	10 ms 9 990 s Yes SFB

Flag	
• Size, max.	16 384 byte
Retentivity available	Yes
Retentivity available     Retentivity preset	MB 0 to MB 15
Number of clock memories	8; in 1 memory byte
Local data	e, in a montal of the
adjustable, max.	64 kbyte
• preset	32 kbyte
Address area	OZ NOVIC
I/O address area	
• Inputs	16 kbyte
Outputs	16 kbyte
Process image	To holy to
Inputs, adjustable	16 kbyte
Outputs, adjustable	16 kbyte
Inputs, default	1 024 byte
Outputs, default	1 024 byte
consistent data, max.	244 byte
Access to consistent data in process image	Yes
Subprocess images	
Number of subprocess images, max.	15
Digital channels	
• Inputs	131 072
— of which central	131 072
<ul><li>Outputs</li></ul>	131 072
— of which central	131 072
Analog channels	
• Inputs	8 192
— of which central	8 192
<ul><li>Outputs</li></ul>	8 192
of which central	8 192
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	95
Multicomputing	No
Interface modules	
Number of connectable IMs (total), max.	6
<ul> <li>Number of connectable IM 460s, max.</li> </ul>	6
<ul> <li>Number of connectable IM 463s, max.</li> </ul>	4; Single mode only
Number of DP masters	
• integrated	2
• via CP	10; CP 443-5 Extended
<ul> <li>Mixed mode IM + CP permitted</li> </ul>	No
via interface module	0
Number of IO Controllers	
• integrated	1
• via CP	0
Number of operable FMs and CPs (recommended)	
• FM	See manual Automation System S7-400H fault-tolerant systems. Limited by number of slots and number of connections
• CP, PtP	See manual Automation System S7-400H fault-tolerant systems. Limited by number of slots and number of connections
PROFIBUS and Ethernet CPs	14; Of which max. 10 CP as DP master
Slots	
• required slots	2
Time of day	
Clock	
Hardware clock (real-time)	Yes
• retentive and synchronizable	Yes
Resolution	1 ms
<ul> <li>Deviation per day (buffered), max.</li> </ul>	1.7 s; Power off

Number   16   Number   Number   16   Number   Numbe	<ul> <li>Deviation per day (unbuffered), max.</li> </ul>	8.6 s; Power on
Number August Number   16		0.0 0,1 0000 011
Number Number range   0 to 15	· · · ·	16
• freientive		
Melerative	-	
Supported   Yes   Yes	•	
		165
• to MPI, master • on MPI, febrice • to DP, master • on DP, device • to DP, master • on DP, device • to DP, master • na NP, master • na NP, master • na NP, master • na NP, device • on Ethemet via NTP	•	Voc
• to DP, master • n DP, device • n DP, device • in AS, master • in AS, device • n RS, device • n Standard with P • res, As client    Intendifference in system when syschronizing via • Ethernet, max. • Ethernet, max. • PROPIRE 485 interfaces   Ves   PROFIBUS DP master • PROFIBUS DP device   No   No   No   Ves   Ves   Ves   PROFIBUS DP device   No   No   Ves		
on DP, device     in AS, master     in AS, master     in AS, device     on 6 Ethernet via NTP     ves, As client     Time difference in system when synchronizing via     in Ethernet, max.     in MPI, max.     in MPI max.     i	•	
• in AS, master		
In AS, device On Ethornet Via NTP Time difference in system when synchronizing via  Ethernet, max.  10 ms; Via NTP  200 ms  Interfaces  Number of RS 485 interfaces 2; Fiber-optic interface No  Uniferface Via MPIPROFIBUS DP  Isolated Yes  Output current of the interface, max.  150 mA  Protocols  Interface Via MPIPROFIBUS DP  Isolated No  No  No  NPIPROFIBUS DP master PROFIBUS DP device No  MPI  Number of connections  1 transmission rate, max.  1 2 Mbit/s  Services  PROCODE communication Sign of Devices Si		
• on Ethernet via NTP Time difference in system when synchronizing via  • Ethernet, max. • MPI, max.  • MPI, max.  Number of RS 485 interfaces  Number of Interfaces  Optical interface  No  1 interface type  Interface type  • RS 485  • Coupt current of the interface, max. • MPI PROFIBUS DP  • RS 485  • Coupt current of the interface, max.  • PROFIBUS DP master  • PROFIBUS DP master  • PROFO communication  • Transmission rate, max.  • PROFO communication  • S7 communication, as client  • SR communication  • No  • PROFIBUS OP communication  • S7 communication  • No  • PROFO PROFO prosesser  • PROFO communication  • S7 communication, as server  • PROFIBUS OP master  • PROFO prosesser  • PROFO promunication  • S7 communication, as client  • S7 communication, as client  • S7 communication  • No  • S7 communication, as client  • S7 communication  • No  • S7 communication, as client  • S7 communication  • No  • Number of DP devices  • PROFO prosesser  • PROFO promunication  • No  • S7 basic communication  • No  • S7 basic communication  • S7 basic communication  • No  • S7 communication  • S7 basic communication  • No  • S7 communication  • S8 confusion  • S8 communication  • S9 communicati		
Eithernet, max.   10 ms; Via NTP   200 ms   20		
← Ehment, max.         10 ms; Via NTP           ← MPI, max.         200 ms           Interfaces           Number of SS 485 interfaces         2           Number of other interface         No           Optical interface         No           Uniforation type         MPUPROFIBUS DP           Interface type         MPUPROFIBUS DP           Interface type         Yes           ← RS 485         Yes           ← Output current of the interface, max.         150 mA           Protocols         Yes           ← MPI         Yes           ← PROFIBUS DP master         Yes           ← PROFIBUS DP device         No           Number of connections         44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1           ← Transmission rate, max.         12 Mbit/s           Services         — PROUTING communication         Yes           — PROLID         Yes           — ST communication, as server<		Yes; As client
MPI, max.   200 ms     Interfaces		
Interfaces   2   Number of RS 485 interfaces   2   Fiber-optic interface   2   Fiber-optic interface   2   Fiber-optic interface   No   No   No   No   No   No   No   N		
Number of RS 485 interfaces   2		200 ms
Number of other interfaces		
Optical interface   No		
Interface type MPUPROFIBUS DP  Isolated Yes  Interface types  RS 485 Yes  Output current of the interface, max. 150 mA  Protocols  MPI Yes  PROFIBUS DP master Yes  PROFIBUS DP device No  MPI  Number of connections 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max. 12 Mbil/s  Services  — PG/OP communication Yes — Routing Yes — Global data communication No — S7 communication, as server Yes  PROFIBUS DP master  • Ves  PROFIBUS DP master  • Ves  Services  12 Mbil/s  Services  — 12 Mbil/s  Services  — PG/OP communication Yes — S7 communication Services — S7 communication Yes — S7 communication, as client Yes — S7 communication, as server Yes  PROFIBUS DP master  • Vumber of connections, max. 12 Mbil/s  Services  — PG/OP communication Yes — S7 communication No — S7 basic communication Yes — S8 communication Yes — S9 communication Yes — Routing Yes — S7 communication No — S7 basic communication No — S7 basic communication Yes — S7 communication As server — S9 communication Yes — S9 communication As server — S9 communication Yes — S9 communication As server — Equilistance — Isochronous mode — No		
Interface type  Isolated  Yes  Interface types  RS 485  Output current of the interface, max.  Protocols  MPI  PROFIBUS DP master  No  PROFIBUS DP device  No  MPI  Number of connections  Transmission rate, max.  Polop communication  RS 400  SF 200 communication  SF 200 communication, as server  PROFIBUS DP master  No  PROFIBUS DP device  No  MPI  Ad; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  12 Mbill/s  Services  PG/OP communication  Routing  Global data communication  SF 200 communication  SF 200 communication  PS 200 communication, as server  PROFIBUS DP master  Number of connections, max.  Transmission rate, max.  Transmission rate, max.  Transmission rate, max.  PGOP communication  PS 200 communication  PS 200 communication  No  SF 200 communication  No  SF 200 communication  PS 300 communication	Optical interface	No
Insolated  Protocols  RS 485 Output current of the interface, max. 150 mA  Protocols  MPI PROFIBUS DP master PROFIBUS DP device No  No  MPI  Number of connections Transmission rate, max. 24 Mbil/s RS 44, If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  PROFIBUS DP master PG/G/D communication Routing Rou	1. Interface	
Interface types  RS 485 Qutput current of the interface, max. 150 mA  Protocols  MPI PROFIBUS DP master PROFIBUS DP device No  MPI  Number of connections Transmission rate, max. 12 Mbit/s  Services  — PG(DP communication — S7 communication, as server — S7 communication, as server  Number of connections, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  From the max of the	Interface type	MPI/PROFIBUS DP
• RS 485 • Output current of the interface, max.  • MPI • PROFIBUS DP master • Number of connections • Transmission rate, max.  • PGOBabd data communication — S7 communication, as server  • Number of connections, max.  • Transmission rate, max.  • Routing — S7 communication, as client — S7 communication • Transmission rate, max.  • Transmission rate, max.  • Routing — Globab data communication — S7 communication, as client — S7 communication, as server  • Number of connections, max.  • Transmission rate, m	Isolated	Yes
Protocols  Protocols  ● MPI Yes  ● PROFIBUS DP master Yes  ● PROFIBUS DP device No  MPI   • Number of connections resources on the line is reduced by 1  ■ Routing Yes  ■ Routing Yes  ■ S7 communication S7 communication, as server  ■ Number of connections, max.  ■ 23. If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  ■ Routing Yes  ■ Routing Yes  ■ Routing Yes  ■ S7 communication No  ■ S7 communication No  ■ S7 communication Yes  ■ S7 communication, as client Yes  ■ S7 communication, as rever Yes  ■ PROFIBUS DP master  ■ Number of connections, max.  ■ Transmission rate, max.	Interface types	
Protocols  MPI PROFIBUS DP master PROFIBUS DP device No  MPI  Number of connections At if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max. 12 Mbit/s  Services  PG/OP communication Routing Giobal data communication S7 basic communication S7 communication S7 communication, as client S7 communication, as server  Number of connections, max. 22 If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max. Pes S7 communication, as client Pes S7 communication, as server PROFIBUS DP master  Number of connections, max. Transmission rate, max. Transmission rate, max. Transmission rate, max. Transmission rate, max. PG/OP communication PS even Services  PG/OP communication Ps sources on the line is reduced by 1  Transmission rate, max. Pasculing Ps Services  PG/OP communication Ps Services  PG/OP communication No S7 basic communication No S7 communication Ps S7 communication No S7 communication, as client Ps S7 communication, as server Pes Equidistance No Isomorphic More Addition No S8 communication, as server Pes Equidistance No Isomorphic More Addition No S9 communication, as server Pes Equidistance No	• RS 485	Yes
MPI PROFIBUS DP master PROFIBUS DP device No  MPI  Number of connections A4; if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max. 2 Mbit/s  Services  PG/OP communication Routing R	Output current of the interface, max.	150 mA
PROFIBUS DP master PROFIBUS DP device No  MPI  Aumber of connections Transmission rate, max.  PG/OP communication Structure Services  PG/OP communication ST basic communication ST communication ST ransmission rate, max.  PROFIBUS DP master  Author of connections Services  PG/OP communication No ST basic communication No ST communication ST communication ST communication, as client ST communication, as server PROFIBUS DP master  Aumber of connections, max. Services  PROFICUS Services	Protocols	
PROFIBUS DP device  No  MPI  Number of connections  A4; if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max.  12 Mbit/s  Services  PG/OP communication Pouting Pes Global data communication No S7 basic communication Pes S7 communication Pes S7 communication, as client S7 communication, as server  Number of connections, max.  Transmission rate, max. Number of DP devices Services  PG/OP communication Pes Services  PG/OP communication Pes Services  PG/OP communication Pes S7 communication Pes Services  PG/OP communication Pes S7 communication No S7 basic communication Pes S7 communication Pes S8 communication Pes S9	• MPI	Yes
Number of connections  A4; if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max.  12 Mbit/s  Services  PC/C/P communication Pes Global data communication No S7 communication PS7 communication PS7 communication, as client PS7 communication, as server  Number of connections, max.  32; if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max.  Tax max. Tax minimater  PC/C/P communication Pes PC/C/P communication	<ul> <li>PROFIBUS DP master</li> </ul>	Yes
<ul> <li>Number of connections</li> <li>44; if a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1</li> <li>12 Mbit/s</li> <li>Services</li> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 communication</li> <li>— S7 communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>PROFIBUS DP master</li> <li>Number of connections, max.</li> <li>● Transmission rate, max.</li> <li>● Transmission rate, max.</li> <li>● max. number of DP devices</li> <li>32</li> <li>Services</li> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Routing</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 basic communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— No</li> <li>— Isochronous mode</li> </ul>	PROFIBUS DP device	No
resources on the line is reduced by 1  Transmission rate, max.  Services  - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication, as client - S7 communication, as server  PROFIBUS DP master  Number of connections, max.  Transmission rate, max.  Transmission rate, max.  Transmission rate, max.  PG/OP communication - PG/OP communication - Routing - Routing - Routing - Routing - Global data communication - S7 basic communication - Yes - Routing - Forommunication - S7 communication - S8 cervices - S9 communication	MPI	
• Transmission rate, max.  Services  - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication Yes - S7 communication, as client Yes - S7 communication, as server Yes  PROFIBUS DP master  • Number of connections, max. • Transmission rate, max. • Transmission rate, max. • Transmission rate, max. • PG/OP communication - PG/OP communication - S7 basic communication - S7 basic communication - S7 basic communication - S7 communicat	<ul> <li>Number of connections</li> </ul>	
Services  - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes  PROFIBUS DP master  • Number of connections, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  • Transmission rate, max. 12 Mbit/s - max. number of DP devices 32  Services - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Equidistance No - Isochronous mode		
- PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes  PROFIBUS DP master  • Number of connections, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  • Transmission rate, max. 12 Mbit/s • max. number of DP devices 32  Services - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 basic communication No - S7 communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Equidistance No - Isochronous mode		12 Mbit/s
- Routing Yes - Global data communication No - S7 basic communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes  PROFIBUS DP master  • Number of connections, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  • Transmission rate, max. 12 Mbit/s • max. number of DP devices 32  Services - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 basic communication Yes - S7 communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Equidistance No - Isochronous mode		
Global data communication  Strict Communication  Global data communication  Strict Commu	— PG/OP communication	
- S7 basic communication Yes - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes  PROFIBUS DP master  • Number of connections, max. 32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  • Transmission rate, max. 12 Mbit/s • max. number of DP devices 32  Services  - PG/OP communication Yes - Routing Yes - Global data communication No - S7 basic communication No - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Equidistance No - Isochronous mode	· ·	Yes
	<ul> <li>S7 basic communication</li> </ul>	No
PROFIBUS DP master  • Number of connections, max.  • Transmission rate, max.  • max. number of DP devices  Services  - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication - S7 communication, as client - S7 communication, as server - Equidistance - Isochronous mode - Isochronous mode  Yes - Idagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  12 Mbit/s  32 Services  Yes - Yes - Yes - Equidistance - Isochronous mode		Yes
PROFIBUS DP master  Number of connections, max.  32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1  Transmission rate, max.  12 Mbit/s  max. number of DP devices  32  Services  - PG/OP communication  - Routing  - Global data communication  - S7 basic communication  No  - S7 communication  - S7 communication, as client  - S7 communication, as server  - Equidistance  - Isochronous mode  No	<ul> <li>S7 communication, as client</li> </ul>	Yes
<ul> <li>Number of connections, max.</li> <li>32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1</li> <li>Transmission rate, max.</li> <li>12 Mbit/s</li> <li>max. number of DP devices</li> <li>32</li> <li>Services</li> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 basic communication</li> <li>— S7 communication</li> <li>— S7 communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> <li>No</li> </ul>	— S7 communication, as server	Yes
resources on the line is reduced by 1  Transmission rate, max.  max. number of DP devices  Services  - PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication, as client - S7 communication, as server - Equidistance - Isochronous mode  Testing is reduced by 1  12 Mbit/s  32  No	PROFIBUS DP master	
<ul> <li>Transmission rate, max.</li> <li>max. number of DP devices</li> <li>Services</li> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 basic communication</li> <li>— S7 communication</li> <li>— S7 communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> </ul>	<ul> <li>Number of connections, max.</li> </ul>	
<ul> <li>max. number of DP devices</li> <li>Services</li> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 basic communication</li> <li>— S7 communication</li> <li>— S7 communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> <li>32</li> &lt;</ul>		·
Services		
<ul> <li>— PG/OP communication</li> <li>— Routing</li> <li>— Global data communication</li> <li>— S7 basic communication</li> <li>— S7 communication</li> <li>— S7 communication</li> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> </ul>		32
<ul> <li>Routing</li> <li>Global data communication</li> <li>S7 basic communication</li> <li>No</li> <li>S7 communication</li> <li>Yes</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>Yes</li> <li>No</li> </ul>		
<ul> <li>Global data communication</li> <li>S7 basic communication</li> <li>S7 communication</li> <li>Yes</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> <li>No</li> </ul>	Services	
<ul> <li>S7 basic communication</li> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>No</li> <li>Isochronous mode</li> <li>No</li> </ul>	Services — PG/OP communication	
<ul> <li>S7 communication</li> <li>S7 communication, as client</li> <li>S7 communication, as server</li> <li>Equidistance</li> <li>Isochronous mode</li> </ul> Yes No No	Services  — PG/OP communication  — Routing	Yes
<ul> <li>— S7 communication, as client</li> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> <li>No</li> </ul>	Services  — PG/OP communication  — Routing  — Global data communication	Yes No
<ul> <li>— S7 communication, as server</li> <li>— Equidistance</li> <li>— Isochronous mode</li> <li>No</li> </ul>	Services  — PG/OP communication  — Routing  — Global data communication	Yes No
<ul><li>Equidistance</li><li>Isochronous mode</li><li>No</li><li>No</li></ul>	Services  — PG/OP communication  — Routing  — Global data communication  — S7 basic communication	Yes No No Yes
— Isochronous mode No	Services  — PG/OP communication  — Routing  — Global data communication  — S7 basic communication  — S7 communication	Yes No No Yes
	Services  — PG/OP communication  — Routing  — Global data communication  — S7 basic communication  — S7 communication  — S7 communication  — S7 communication, as client	Yes No No Yes Yes
	Services  — PG/OP communication  — Routing  — Global data communication  — S7 basic communication  — S7 communication  — S7 communication  — S7 communication, as client  — S7 communication, as server	Yes No No Yes Yes Yes
— SYNC/FREEZE No	Services  — PG/OP communication  — Routing  — Global data communication  — S7 basic communication  — S7 communication  — S7 communication  — S7 communication, as client  — S7 communication, as server  — Equidistance	Yes No No Yes Yes Yes Yes Yes

<ul> <li>activation/deactivation of DP devices</li> </ul>	No
Direct data exchange (slave-to-slave	No
communication)	
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
1st interface / DP master / payload data per DP Device / head	
<ul><li>user data per DP device, max.</li></ul>	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
1st interface / PROFIBUS DP device / header	
Number of connections	No configuration of CPU as DP slave
2. Interface	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes; Autosensing
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	No
Interface types	
• RJ 45 (Ethernet)	Yes
<ul> <li>Number of ports</li> </ul>	2
<ul> <li>integrated switch</li> </ul>	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	No
PROFIBUS DP device	No
Open IE communication	Yes
Web server	No
Point-to-point connection	No
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
— PG/OP communication	Yes
— S7 communication	Yes
— Isochronous mode	No
— Shared device	Yes; Single mode only
— Prioritized startup	No
Number of connectable IO Devices, max.	256; In redundant mode via both interfaces
Number of connectable IO Devices for RT, max.	256
— of which in line, max.	256
Activation/deactivation of IO Devices	No
— IO Devices changing during operation (partner	No
ports), supported	Voo
Device replacement without swap medium	Yes
— Send cycles	250 μs, 500 μs, 1 ms, 2 ms, 4 ms
— Updating time	$250~\mu s$ to 512 ms, minimum value depends on the number of configured user data and the configured single or redundant mode
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
<ul><li>— Outputs, max.</li><li>— User data consistency, max.</li></ul>	8 kbyte 1 024 byte
•	
— User data consistency, max.	
User data consistency, max.  Open IE communication	1 024 byte

<ul> <li>Keep-alive function, supported</li> </ul>	Yes
3. Interface	
Interface type	PROFIBUS DP
Interface types	I NOT IDOG DI
• RS 485	Yes
	150 mA
Output current of the interface, max.  Protected.	150 IIIA
Protocols	Voc
PROFIBUS DP davides	Yes
PROFIBUS DP device	No
PROFIBUS DP master	00
Number of connections, max.	32
Transmission rate, max.	12 Mbit/s
max. number of DP devices	125
Services	
— PG/OP communication	Yes
— Routing	Yes
<ul> <li>Global data communication</li> </ul>	No
— S7 basic communication	No
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes
<ul> <li>S7 communication, as server</li> </ul>	Yes
— Equidistance	No
— Isochronous mode	No
— SYNC/FREEZE	No
<ul> <li>activation/deactivation of DP devices</li> </ul>	No
<ul> <li>Direct data exchange (slave-to-slave communication)</li> </ul>	No
— DPV0	Yes
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
3rd interface / DP master / payload data per DP Device / head	der
<ul> <li>user data per DP device, max.</li> </ul>	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
4. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization modules 6ES7960-1AA06-0XA0 or 6ES7960-1AB06-0XA0
5. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization modules 6ES7960-1AA06-0XA0 or 6ES7960-1AB06-0XA0
Protocols	
Redundancy mode	
Media redundancy	
Switchover time on line break, typ.	200 ms
— Switchover time on line break, typ.      — Number of stations in the ring, max.	50
— Number of stations in the mig, max.  SIMATIC communication	
S7 routing	Yes
Open IE communication	100
TCP/IP	Vec: via integrated DDOEINET interface and leadable EDa
	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	94
— Data length, max.	32 kbyte
— several passive connections per port, supported	Yes
• ISO-on-TCP (RFC1006)	Yes; Via integrated PROFINET interface or CP 443-1 and loadable FBs
Number of connections, max.	94
— Data length, max.	32 kbyte; 1 452 bytes via CP 443-1 Adv.
• UDP	Yes; via integrated PROFINET interface and loadable FBs
<ul><li>Number of connections, max.</li></ul>	94

* eupported * eupported * Paddisonce * No * Communication functions / hasders * PGCP communication * Number of connectable OPs without message processing * Number of connectable OPs with message processing * No * State communication * eupported * supported * subset data per job, max. * User data per job (or which consistent), max. * Stormatic communication * eupported * User data per job (or which consistent), max. * Stormatic communication * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent), max. * User data per job (or which consistent)	— Data length, max.	1 472 byte
Equitidations   No		
Equidatance  No communication functions / heador  PG/OP communication  * Number of connectable OPs without message processing  * Number of connectable OPs with message processing  * Second Communication  * supported  * Supp	• supported	No
Communication functions / brader  PG/OP communication  • Number of connectable OPs with message processing  • Number of connectable OPs with message processing  • Number of connectable OPs with message processing  • Ves  • Supported  • User data per job, max.  • Supported  • Supported  • Supported  • User data per job, max.  • Supported	Isochronous mode	
FOLOR communication  Number of connectable OPs without message processing  Number of connectable OPs with message processing  Post a record routing  Special data communication  * upported  No  7 communication  * upported  No  7 communication  * upported  No  8 communication  * upported  No  9 communication  No  1 communication  No  No  9 communication  No  No  No  No  No  No  No  No  No	Equidistance	No
Number of connectable OPs with message processing 95 sty, When using Alarm_SISQ and Alarm_DIXQ  Data record routing 75 base communication 85 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 85 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 85 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 85 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_DIXQ  To base communication 95 sty, When using Alarm_SISQ and Alarm_SISQ blocks or alarm_DIXQ styles alarm_SISQ blocks or alarm_DIXQ styles alarm_SISQ blocks or alarm_DIXQ blocks  To base communication 95 styles alarm_SISQ blocks or alarm_DIXQ blocks  To base communication 95 styles alarm_SISQ blocks or alarm_DIXQ blocks  To base communication 95 styles alarm_SISQ blocks or alarm_DIXQ blocks  To base communication 95 styles alarm_SISQ blocks or alarm_DIXQ styles alarm_SISQ blocks or	communication functions / header	
Site Notes of connectable OPs with message processing Data record counting Global data communication  * supported  * supp	PG/OP communication	Yes
Site Notes of connectable OPs with message processing Data record counting Global data communication  * supported  * supp	Number of connectable OPs without message processing	95
Supported   No   Strommunication   Strommunication   Strommunication   Supported   No   No   Strommunication   Supported   No   No   Strommunication   Supported   Yes   Strommunication   Str		95; When using Alarm S/SQ and Alarm D/DQ
Supported   No   Strommunication   Strommunication   Strommunication   Supported   No   No   Strommunication   Supported   No   No   Strommunication   Supported   Yes   Strommunication   Str	Data record routing	Yes
S7 basic communication		
So communication  • supported  • supported  • sa server  • as client  • User data per job, (of which consistent), max.  • User data per job (of which consistent), max.  • User data per job (of which consistent), max.  • So compatible communication  • supported  • User data per job, (of which consistent), max.  • So compatible communication  • supported  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, (of which consistent), max.  • User data per job, of which consistent, max.  • User data per job, (of which consistent), max.  • User data per job, of which consistent, max.  • User data per job, of which consistent, max.  • User data per job, of which consistent, max.  • User data per job, of which consistent, max.  • User data per job, of which consistent, max.  • User data per job, of which consistent, max.  • Us	• supported	No
S7 communication  • supported • as server • as client • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • So compatible communication • supported • User data per job, for which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which consistent), max. • User data per job (of which	S7 basic communication	
supported     sa server     sa client     ves     sa solent     ves     sa client     ves     sa client     ves	• supported	No
as elient User data per job, max. User data per job, max.  482 byte; 1 variable  Scompatible communication  supported User data per job, max.  482 byte; 1 variable  Yes, (via CP max. 10 and PC AG_SEND and PC AG_RECV)  User data per job, of which consistent), max.  8 thyte User data per job, of which consistent), max.  8 thyte User data per job, of which consistent), max.  8 thyte User data per job, of which consistent), max.  8 thyte User data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  9 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per job, of which consistent), max.  10 thyte data per jot of which consistent), max.  10 thyte data per jot of which consistent), max.  10 t	S7 communication	
Se client     User data per job, max.     User data per job (of which consistent), max.     User data per job (of which consistent), max.     User data per job, max.     User data per job (of which consistent), max.     User data per job (of which consistent), max.     User data per job, of which consistent), max.     User data per job (of which consistent), max.     User data per job, max.     User data per job (of which consistent), max.     User data per job (of which consistent), max.     Usable for 67 communication (FMS)     User data per job (of which consistent), max.     Usable for 67 communication     Uses data per job (of which consistent), max.     Usable for 67 communication     Usable for 67 communica	• supported	Yes
User data per job, max.  User data per job (of which consistent), max.  **Vest (via CP max. 10 and FC AG_SEND and FC AG_RECV)  **Supported**  User data per job (of which consistent), max.  **Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  **Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  **Standard communication (FMS)*  **supported**  Usuable for PG communication  - reserved for OP communication  - reserved for OP communication  - reserved for ST basic communication  - reserved for ST basic communication  - reserved for ST os or	• as server	Yes
User data per job (of which consistent), max.  Siscompatible communication  Supported  User data per job, max.  User data per job (of which consistent), max.  Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  Standard communication (FMS)  Supported  Ves; Via CP and loadable FB  Number of connections  Soveral  Supported  Ves; Via CP and loadable FB  Number of connections  Soveral  Usable for PG communication  - reserved for PG communication  - adjustable for PG communication  - reserved for OP communication  - reserved for ST basic communication  - reserved for ST basic communication  - reserved for ST communication  - reserved for routing  - reserved for ST communication  - reserved for Pouting  - reserved for Pouting  - reserved for Pouting  - reserved for Pouting  - reserved for	• as client	Yes
SS compatible communication  • supported  • User data per job, max. • User data per job (of which consistent), max.  • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  • Standard communication (FMS)  • supported  • versal  • overall  • usable for PG communication  — reserved for PG communication  — reserved for PG communication  — reserved for OP communication  — reserved for OP communication  — reserved for S7 basic communication  — reserved for S7 basic communication  — reserved for S7 communication  — reserved for s87 communication  — reserved for s97 communication  — reserved for routing  — res	User data per job, max.	64 kbyte
Supported     User data per job, max.     User data per job (of which consistent), max.     Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  Standard communication (FMS)  supported     vesting for Gonnections  overall  usable for PG communication  reserved for PG communication  adjustable for PG communication  reserved for	<ul> <li>User data per job (of which consistent), max.</li> </ul>	462 byte; 1 variable
User data per job, max.  User data per job (of which consistent), max.  Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  Standard communication (FMS)  supported  Yes; Via CP and loadable FB  Number of connections  overall  usable for PG communication  reserved for PG communication  reserved for OP communication  reserved for OP communication  reserved for ST basic communication  reserved for ST optic communication  reserved for ST communication  reserved for routing  reserved for routing  reserved for routing  reserved for routing  reserved for routing, max.  ST message functions  Number of login stations for message functions, max.  Symbol-related messages  No  SCAN procedure  No  Process diagnostic messages  No  SCAN procedure  No  Process diagnostic messages  res  simultaneously active alarm_SISQ blocks or alarm_DIDQ blocks  Number of instances for alarm 8 and S7 communication  preset, max.  1 0000  Simultaneously active alarm_SISQ blocks or alarm_DIDQ blocks  Process control messages  Ves  Number of instances for alarm 8 and S7 communication  process control messages  Ves  Number of instances for alarm 8 and S7 communication  reserved for control messages  Ves  Number of instances for alarm 8 and S7 communication  reserved for control messages  Ves  Number of instances for alarm 8 and S7 communication  reserved for CP communication  reserved for CP communication  reserved for CP communication  reserved for CP communication  reser	S5 compatible communication	
User data per job (of which consistent), max. Number of simultaneous AG-SENDIAG-RECV orders per CPU, max.  Standard communication (FMS)  supported  Ves; Via CP and loadable FB  Number of connections  overall usable for PG communication - reserved for PG communication - adjustable for PG communication - reserved for PC communication - reserved for PC communication - reserved for OP communication - reserved for OP communication - reserved for OP communication - reserved for S7 basic communication - adjustable for OP communication, max.  usable for S7 basic communication - reserved for S7 basic communication - reserved for S7 basic communication - reserved for S7 communication - reserved for S7 communication - reserved for S7 communication - adjustable for S7 communication - adjustable for S7 communication - reserved for S7 communication - adjustable for s8 communication - adjustable for s9 communication - adjustable for S7 communication - reserved for routing - reserved for S7 communication - adjustable for S7 communication - adjustable for S7 communication - reserved for S7 communication - re	• supported	Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV)
Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.  Standard communication (FMS)  supported  Number of connections  overall  usable for PG communication  - reserved for PG communication  - adjustable for PG communication  - reserved for OP communication  - reserved for ST basic communication  - adjustable for ST op communication, max.  usable for ST basic communication, max.  usable for ST basic communication, max.  usable for ST communication  - reserved for ST communication  - r	User data per job, max.	8 kbyte
CPU, max.  Standard communication (FMS)  • supported  • verall  • usable for PG communication  — reserved for PG communication  — reserved for OP communication  — reserved for OP communication  — reserved for OP communication  — reserved for S7 basic communication  — reserved for S7 communication  — reserved for S7 communication  — reserved for S7 communication  — adjustable for S7 basic communication  — reserved for S7 communication  — adjustable for S7 communication  — adjustable for S7 communication  — reserved for routing  — reserved for routing  — reserved for routing  — adjustable for routing  — adjustable for routing  — reserved for routing  — reserved for routing  — adjustable for routing  — Reserved for routing  — reserved for routing  — reserved for routing, max.   S7 message functions  Number of login stations for message functions, max.  Alarm _8, Alarm _8, Alarm _8, Notity and Notity_8 (e.g. WinCC)  Yes  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.  • precess diagnostic messages  • Yes  Number of archives that can log on simultaneously (SFB 37 AR, SEND)  Test commissioning functions	<ul> <li>User data per job (of which consistent), max.</li> </ul>	240 byte
Standard communication (FMS)  • supported  • supported  • verall  • usable for PG communication  — reserved for PG communication  — adjustable for PG communication  — adjustable for PG communication  — reserved for OP communication  — reserved for OP communication  — reserved for PG spasic communication  — reserved for ST basic communication  — reserved for ST basic communication  — reserved for ST basic communication  — adjustable for ST communication  — reserved for ST communication  — adjustable for To communication  — reserved for ST communication  — adjustable for ST communication  — reserved for ST communication  — adjustable for ST communication  — adjus		64/64
Supported Number of connections  overall ousable for PG communication - reserved for PG communication, max. ousable for PO communication, max. ousable for PO communication, max. ousable for PO communication, max. ousable for OP communication, max. ousable for ST basic communication, max. ousable for ST basic communication - reserved for ST basic communication - reserved for ST basic communication - reserved for ST basic communication - adjustable for ST basic communication - adjustable for ST ommunication - adjustable for ST communication - reserved for ST communication - adjustable for ST communication - reserved for ST communication - adjustable for ST communication - reserved for ST communication - adjustable for routing - reserved for To communication - adjustable for routing - reserved for routing - reserved for To communication - adjustable for routing - Routing		
Number of connections         ● Overall         96           ● usable for PG communication         1           — reserved for PG communication, max.         0           • usable for OP communication         1           — reserved for OP communication         1           — adjustable for OP communication         0           — reserved for SP basic communication         0           — reserved for SP basic communication, max.         0           — reserved for SP basic communication, max.         0           — adjustable for S7 communication         0           — reserved for S7 communication         0           — adjustable for S7 communication, max.         0           • usable for routing         0           — adjustable for routing max.         0           • usable for routing max.         0           S7 message functions         95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WincC)           Symbol-related messages         No           SCAN procedure         No           Program alarms         Yes           Process diagnostic messages         Yes           simultaneously active Alarm-S blocks, max.         1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks           • Numb	·	
overall     ousable for PG communication         — reserved for PG communication         — adjustable for PG communication, max.     ousable for OP communication         — reserved for OP communication, max.     ousable for S7 basic communication         — reserved for S7 basic communication         — reserved for S7 basic communication         — adjustable for S7 communication         — adjustable for S7 communication         — adjustable for S7 communication         — reserved for S7 communication         — adjustable for S7 communication         — adjustable for S7 communication         — reserved for routing         — reserved for routing         — reserved for routing         — adjustable for routing         — adjustable for routing         — reserved for routing         — adjustable for routing, max.   8		Yes; Via CP and loadable FB
Usable for PG communication  — reserved for PG communication, max.  Usable for PG communication  — reserved for OP communication  — reserved for OP communication  — reserved for OP communication  — adjustable for OP communication, max.  Usable for S7 basic communication  — reserved for S7 basic communication  — reserved for S7 basic communication  — adjustable for S7 basic communication  — adjustable for S7 communication  — reserved for S7 communication  — adjustable for S7 communication  — reserved for S7 communication  — adjustable for S7 communication  — reserved for F3 communication  — reserved for S7 communication  — adjustable for S7 communication  — adjustable for S7 communication  — reserved for F3 communication  — adjustable for S7 communication  — adjustable for S7 communication  — reserved for F3 communication  — reserved for F3 communication  — reserved for F3 communication  — adjustable for S7 communication  — adjustable for S7 communication  — reserved for S7 besic communication  — adjustable for S7 besic communication  — reserved for S7 besic communic		
- reserved for PG communication - adjustable for PG communication, max.  • usable for OP communication - reserved for OP communication - adjustable for S7 basic communication - reserved for S7 basic communication - reserved for S7 basic communication - adjustable for S7 basic communication - adjustable for S7 basic communication - adjustable for S7 basic communication - reserved for S7 communication - adjustable for s7 communication, max.  • usable for routing - reserved for routing - adjustable for routing - adjustable for routing - adjustable for routing - adjustable for routing - Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages No SCAN procedure No Program alarms Yes Process diagnostic messages Yes simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks Alarm_8-Blocks  • Number of instances for alarm 8 and S7 communication blocks, max.  • preset, max.  1 200 Process control messages Yes Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		96
- adjustable for PG communication, max.  • usable for OP communication  - reserved for OP communication  - adjustable for OP communication  - adjustable for OP communication  - reserved for S7 basic communication  - reserved for S7 basic communication  - adjustable for S7 basic communication  - adjustable for S7 communication  - reserved for S7 communication  - reserved for S7 communication  - reserved for S7 communication  - adjustable for S7 communication  - reserved for S7 communication  - adjustable for s7 communication, max.  • usable for routing  - adjustable for routing  - adjustable for routing  - adjustable for routing  - adjustable for routing  - meserved for routing  - adjustable for routing  - meserved for s7 communication  - meserved for s0 special supplementation  - meserved for s0 special supplementation  - meserved for s0 special supplementation  -		
usable for OP communication  reserved for OP communication  adjustable for OP communication  reserved for S7 basic communication  reserved for S7 basic communication  reserved for S7 basic communication  adjustable for S7 basic communication  adjustable for S7 communication  reserved for routing  reserved for S7 basic communication, max.   95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notity and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  reserved for S7 basic communication, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  reserved for S7 basic communication, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  No  Process control messages  reserved for S7 basic communication, and the served for S7 basic communication, and served for S7 basic communication, and the served for S7 basic communication, and the served for S7 basic communication, and served		
- reserved for OP communication - adjustable for OP communication, max.  • usable for S7 basic communication - adjustable for S7 basic communication - adjustable for S7 basic communication, max.  • usable for S7 communication - reserved for S7 communication - adjustable for S7 communication - adjustable for S7 communication - adjustable for S7 communication, max.  • usable for routing - adjustable for routing - adjustable for routing - adjustable for routing - adjustable for routing, max.   S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages No SCAN procedure No Program alarms Process diagnostic messages yes simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.  • preset, max.  • preset, max.  • preset, max.  • preset, max.  1 200 Process control messages Yes Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		0
- adjustable for OP communication, max.  • usable for S7 basic communication  - reserved for S7 basic communication  - adjustable for S7 communication, max.  • usable for S7 communication  - reserved for S7 communication  - reserved for S7 communication  - reserved for S7 communication  - adjustable for S7 communication, max.  • usable for routing  - reserved for routing  - reserved for routing  - adjustable for routing  - adjustable for routing  - reserved for routing  - sylvation for metally for the following for the following f		
usable for S7 basic communication  — reserved for S7 basic communication, max.  usable for S7 basic communication, max.  usable for S7 basic communication, max.  usable for S7 communication  — reserved for S7 communication  — adjustable for S7 communication, max.  usable for routing  — reserved for routing  — reserved for routing  — adjustable for routing, max.  0  S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  yes  simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  Number of instances for alarm 8 and S7 communication blocks, max.  1 200  Process control messages  Yes  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
- reserved for S7 basic communication - adjustable for S7 basic communication, max.  • usable for S7 communication - reserved for S7 communication 0 - adjustable for S7 communication 0 - adjustable for S7 communication, max. 0 • usable for routing - reserved for routing 0 - adjustable for routing 0 - adjustable for routing, max. 0  S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages No SCAN procedure No Program alarms Yes Process diagnostic messages yes simultaneously active Alarm-S blocks, max. 1000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks Yes  • Number of instances for alarm 8 and S7 communication blocks, max. 1000 Process control messages Yes Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	,	0
- adjustable for S7 basic communication, max.  • usable for S7 communication  - reserved for S7 communication  0  - adjustable for S7 communication, max.  • usable for routing  - reserved for routing  - reserved for routing  0  - adjustable for routing  Number of login stations for message functions, max.  S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.  • preset, max.  • preset, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
usable for S7 communication  reserved for S7 communication  adjustable for S7 communication, max.  usable for routing  reserved for routing  reserved for routing  outing  reserved for routing  outing, max.   S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.  preset, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
- reserved for S7 communication - adjustable for S7 communication, max.  • usable for routing - reserved for routing - adjustable for routing, max.  0  S7 message functions  Number of login stations for message functions, max.  Number of login stations for message functions, max.  Number of login stations for message functions, max.  Symbol-related messages  No SCAN procedure No Program alarms Yes Process diagnostic messages  Yes simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  No No No No No Simultaneously active alarm-S/SQ blocks or alarm_D/DQ blocks  Alarm 8-blocks  No No Number of instances for alarm 8 and S7 communication blocks, max.  Process control messages  No Process control messages  Yes  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	•	0
- adjustable for S7 communication, max.  ■ usable for routing - reserved for routing - adjustable for routing, max.  0  S7 message functions  Number of login stations for message functions, max.  Symbol-related messages  SCAN procedure Program alarms Process diagnostic messages  Frocess diagnostic messages  Simultaneously active Alarm-S blocks, max.  ■ Number of instances for alarm 8 and S7 communication blocks, max.  ■ Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
usable for routing         — reserved for routing         — adjustable for routing, max.  S7 message functions  Number of login stations for message functions, max.  Symbol-related messages  SCAN procedure  Program alarms  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions  PS; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  No  Ps; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  No  Yes  10 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  1 0000  1 2 000  1 2 000  1 2 000  1 2 000  1 3 000  1 4 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5 000  1 5		
- reserved for routing - adjustable for routing, max.  7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  Yes  simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  • Number of instances for alarm 8 and S7 communication blocks, max.  • preset, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	•	U
— adjustable for routing, max.  S7 message functions  Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  yes  simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Alarm 8-blocks  No  Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	-	0
Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  No  No  No  Prosest, max.  Process control messages  Yes  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	<u> </u>	
Number of login stations for message functions, max.  95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		U
Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)  Symbol-related messages  No  SCAN procedure  No  Program alarms  Yes  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		OF Many OF with Alarma (IOO LALL DIDO (OC)
Symbol-related messages  SCAN procedure  Program alarms  Yes  Process diagnostic messages  simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  No  No  Yes  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.  process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	Number of login stations for message functions, max.	
SCAN procedure Program alarms Yes Process diagnostic messages Simultaneously active Alarm-S blocks, max.  Alarm 8-blocks Number of instances for alarm 8 and S7 communication blocks, max.  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions  No  Yes  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10 000  10	Symbol-related messages	
Program alarms Process diagnostic messages Simultaneously active Alarm-S blocks, max.  Alarm 8-blocks Number of instances for alarm 8 and S7 communication blocks, max.  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions  Yes  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  10 000  10 000  64  64  64	·	
Process diagnostic messages simultaneously active Alarm-S blocks, max.  Alarm 8-blocks Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions  Yes  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  Yes  10 000  10 000  12 000  44  64  64  64  65  66  66  66  66  66	·	
simultaneously active Alarm-S blocks, max.  Alarm 8-blocks  Number of instances for alarm 8 and S7 communication blocks, max.  preset, max.  1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks  10 000  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
Alarm 8-blocks  • Number of instances for alarm 8 and S7 communication blocks, max.  • preset, max.  1 200  Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
<ul> <li>Number of instances for alarm 8 and S7 communication blocks, max.</li> <li>preset, max.</li> <li>1 200</li> <li>Process control messages</li> <li>Number of archives that can log on simultaneously (SFB 37 AR_SEND)</li> <li>Test commissioning functions</li> </ul>	·	·
Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions		
Process control messages  Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions	• preset, max.	1 200
Number of archives that can log on simultaneously (SFB 37 AR_SEND)  Test commissioning functions  64	·	Yes
Test commissioning functions	Number of archives that can log on simultaneously (SFB 37	64
	Status block	Yes

Cinale step	Voc
Single step	Yes
Number of breakpoints	16
Status/control	Van Un to 40 variable tables
<ul><li>Status/control variable</li><li>Variables</li></ul>	Yes; Up to 16 variable tables Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.  Foreign	70
Forcing	Ver
• Forcing	Yes
Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
Number of variables, max.  Diagnostic buffer.	512
Diagnostic buffer	Yes
Plumber of entries, may	3 200
<ul><li>Number of entries, max.</li><li>— adjustable</li></ul>	Yes
•	120
— preset  Service data	120
• can be read out	Yes
EMC	res
Emission of radio interference acc. to EN 55 011	Voc
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	Yes
Limit class B, for use in residential areas     configuration / beader.	No
configuration / header	
Configuration software	Vec
• STEP 7	Yes
configuration / programming / header	
Command set	see instruction list
Nesting levels	7
Access to consistent data in process image     Contain functions (OFO)	Yes
System functions (SFC)      Custom function blacks (SFC)	see instruction list
System function blocks (SFB)	see instruction list
Programming language	Ver
— LAD — FBD	Yes
	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
configuration / programming / number of simultaneously a	
— RD_REC	8
— WR_REC	8
— WR_PARM	8
— PARM_MOD	1 2
— WR_DPARM	8
— DPNRM_DG	
— RDSYSST	8
— DP_TOPOL	1 cotive SEP / header
configuration / programming / number of simultaneously a	
— RDREC — WRREC	8 8
Know-how protection	Yes
User program protection/password protection     Rlock encryption	Yes; With S7 block Privacy
Block encryption     Dimensions	1 65, WILLI OT DIOUR FIIVALY
	50 mm
Width	50 mm
Height	290 mm
Depth	219 mm
Weights	005 ~
Weight, approx.	995 g
last modified:	4/25/2024 🗗

