SIEMENS

Data sheet

6ES7416-3XS07-0AB0

SIMATIC S7-400, CPU 416-3, Central processing unit with: Work memory 16 MB, (8 MB code, 8 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP, 3rd interface plug-in IFM module

General information	
Product type designation	CPU 416-3
HW functional status	01
Firmware version	V7.0
Engineering with	
 Programming package 	STEP 7 V5.4 or higher with HSP 261
CiR – Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	10 µs
Cuentralitare	
Supply voltage Rated value (DC)	
• 24 V DC	No; Power supply via system power supply
- 24 V DO	
Input current	
from backplane bus 5 V DC, typ.	1.1 A
from backplane bus 5 V DC, max.	1.3 A
from backplane bus 24 V DC, max.	450 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	5.5 W
Power loss, max.	6.5 W
Memory	
Type of memory	RAM
Work memory	
• integrated	16 Mbyte
 integrated (for program) 	8 Mbyte
• integrated (for data)	8 Mbyte
• expandable	No
Load memory	
expandable FEPROM	Yes; with Memory Card (FLASH)
• expandable FEPROM, max.	64 Mbyte
 integrated RAM, max. 	1 Mbyte
• expandable RAM	Yes; with Memory Card (RAM)

• expandable RAM, max.	64 Mbyte
Backup	
● present	Yes
• with battery	Yes; all data
• without battery	No
Battery	
Backup battery	
 Backup current, typ. 	180 μA; up to 40 °C
 Backup current, max. 	850 μΑ
 Backup time, max. 	Dealt with in the module data manual with the secondary
	conditions and the factors of influence
 Feeding of external backup voltage to CPU 	5 V DC to 15 V DC
CPU processing times	
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	
DB	
• Number, max.	10 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
• Number, max.	5 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
• Number, max.	5 000; 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 (shortest cycle that can be set = 500 μ s)
 Number of process alarm OBs 	8; OB 40-47
 Number of DPV1 alarm OBs 	3; OB 55-57
 Number of isochronous mode OBs 	4; OB 61-64
 Number of multicomputing OBs 	1; OB 60
 Number of background OBs 	1; OB 90
 Number of startup OBs 	3; 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	0.040
• Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
Number	Unlimited (limited only by RAM capacity)
S7 times	
• Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	No times retentive
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
● present	Yes
• Туре	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
retentive data area in total	Total working and load memory (with backup battery)
Flag	
● Number, max.	16 kbyte; Size of bit memory address area
 Retentivity available 	Yes
 Retentivity preset 	MB 0 to MB 15
 Number of clock memories 	8; in 1 memory byte
Local data	
● adjustable, max.	32 kbyte
• preset	16 kbyte

Address area	
I/O address area	
Inputs	16 kbyte
Outputs	16 kbyte
of which distributed	
— MPI/DP interface, inputs	2 kbyte
— MPI/DP interface, outputs	2 kbyte
— DP interface, inputs	8 kbyte
— DP interface, outputs	8 kbyte
Process image	
 Inputs, adjustable 	16 kbyte
 Outputs, adjustable 	16 kbyte
 Inputs, default 	512 byte
• Outputs, default	512 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
Outputs	131 072
— of which central	131 072
Analog channels	
Inputs	8 192
— of which central	8 192
Outputs	8 192
— of which central	8 192
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	95
Multicomputing	Yes; 4 CPUs max. (with UR1 or UR2)
Interface modules	
 Number of connectable IMs (total), max. 	6
 Number of connectable IM 460s, max. 	6
 Number of connectable IM 463s, max. 	4; IM 463-2
Number of DP masters	
• integrated	2
• via CP	10; CP 443-5 Extended
● via IM 467	4

 Mixed mode IM + CP permitted 	No; IM 467 cannot be used jointly with CP 443-5 Ext. or CP 443-1 in PROFINET IO mode
• via interface module	
Number of pluggable S5 modules (via adapter	6
capsule in central device), max.	
Number of IO Controllers	
• integrated	0
● via CP	4; No mixed operation of CP443-1 EX40 and CP443-1 EX 41/EX20/GX20, max. 4 in central controller
Number of operable FMs and CPs (recommended)	
• FM	Limited by number of slots and number of connections
● CP, PtP	CP 440: Limited by number of slots; CP 441: limited by number of connections
 PROFIBUS and Ethernet CPs 	14; In total max. 10 CPs as DP master and PROFINET controller, of which up to 10 IMs or CPs as DP master and up to 4 CPs as PROFINET controller
Slots	
required slots	2
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
 retentive and synchronizable 	Yes
Resolution	1 ms
 Deviation per day (buffered), max. 	1.7 s; Power off
 Deviation per day (unbuffered), max. 	8.6 s; For power On
Operating hours counter	
Number	16
Number/Number range	0 to 15
 Range of values 	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
• retentive	Yes
Clock synchronization	
• supported	Yes
● to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes
• to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
 on Ethernet via NTP 	No; Via CP
• to IF 964 DP	Yes
Time difference in system when synchronizing via	
• MPI, max.	200 ms

Interfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFIBUS DP, 1 x PROFIBUS DP
	(optionally pluggable)
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
Number of other interfaces	1; PROFIBUS DP with IF 964-DP (plug-in option; MLFB:
	6ES7964-2AA04-0AB0)
1. Interface	
Interface type	Integrated
Physics	RS 485 / PROFIBUS + MPI
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	150 mA
Number of connection resources	MPI: 44, DP: 32
Functionality	
● MPI	Yes
 PROFIBUS DP master 	Yes
PROFIBUS DP slave	Yes
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 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
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
 Number of DP slaves, max. 	32
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
— Global data communication	No
— S7 basic communication	Yes
— S7 communication	Yes
- S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
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— Isochronous mode	Yes
— SYNC/FREEZE	Yes
 Activation/deactivation of DP slaves 	Yes
 — Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data per DP slave	
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
DP slave	
Number of connections	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
• Transmission rate, max.	12 Mbit/s
 automatic baud rate search 	No
 Address area, max. 	32; Virtual slots
• User data per address area, max.	32 byte
— of which consistent, max.	32 byte
Services	
— PG/OP communication	Yes; with interface active
— S7 routing	Yes; with interface active
— Global data communication	No
- S7 basic communication	No
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
 — Direct data exchange (slave-to-slave communication) 	No
DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	Integrated
Physics	RS 485 / PROFIBUS

Interface type	Integrated
Physics	RS 485 / PROFIBUS
Isolated	Yes

Power supply to interface (15 to 30 V DC), max.	150 mA
Number of connection resources	32
Functionality	
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
DP master	
 Number of connections, max. 	32
 Transmission rate, max. 	12 Mbit/s
 Number of DP slaves, max. 	125
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
— Global data communication	No
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
- SYNC/FREEZE	Yes
— Activation/deactivation of DP slaves	Yes
 Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
DP slave	
 Number of connections 	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
• Transmission rate, max.	12 Mbit/s
 Address area, max. 	32
• User data per address area, max.	32 byte
— of which consistent, max.	32 byte
Services	

— Routing	Yes; with interface active
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
3. Interface Interface type	Dividential data as for 2nd
Intenace type	Pluggable interface module (IF), technical data as for 2nd interface
Plug-in interface modules	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)
Physics	RS 485 / PROFIBUS
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	150 mA
automatic detection of transmission rate	No
Number of connection resources	32
Functionality	
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
DP master	
 Number of connections, max. 	32
 Number of DP slaves, max. 	125
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
— Global data communication	No
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
- SYNC/FREEZE	Yes
— Activation/deactivation of DP slaves	Yes
 — Direct data exchange (slave-to-slave communication) 	Yes
— DPV0	Yes
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
	244 byte
— User data per DP slave, max.	244 byte 244 byte
— Inputs, max.	בוע דד אונט

	Outpute may	244 byte
- per slot, max. 128 byte DP slave 32 • GSD file http://support.automation.semens.com/WWWewfen/113652 • GSD file http://support.automation.semens.com/WWWewfen/113652 • Transmission rate, max. 12 Mbit/s • automatic baud rate search No • Address area, max. 32 • User data per address area, max. 32 byte - of which consistent, max. 32 byte Services - - PG/OP communication Yes - S7 routing Yes: with interface active - Global data communication No - S7 communication No - Direct data exchange (slave-to-slave communication No - Direct data exchange (slave-to-slave communication No - Direct data exchange (slave-to-slave communication No - S0 communication Yes (So-Orn CP (RFC1006) Via CP 443-1 and loadable FB		
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• Number of connections 32 • GSD file http://support.automation.siemens.com/WWV/iew/en/113822 • Transmission rate, max. 12 Mbl/s • automatic baud rate search No • Address area, max. 32 • User data per address area, max. 32 byte - of which consistent, max. 32 byte Services - - PG/OP communication Yes - S7 routing Yes; with interface active - Global data communication No - S7 communication Yes - S7 communication, as client Yes - S7 communication, as client Yes - S7 communication, as client Yes - S7 communication, as server Yes - Direct data exchange (slave-to-slave communication) No - Inputs 244 byte - Outputs 244 byte Protocols Open IE communication - Direct data exchange (slave-to-slave communication) Via CP 443-1 and loadable FB - Juputs 244 byte Protocols Open IE communication Via CP 443-1 and loadable FB 1452 bytes via CP 443-1 Adv. Isochronous operation (application synchronized up to terminal) Yes; For PROFIBUS only Equidistance Yes Number of D		
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Address area, max. 32 User data per address area, max. 32 byte - of which consistent, max. 32 byte Services - - PG/OP communication Yes - S7 routing Yes; with interface active - Global data communication No - S7 communication No - S7 communication, as client Yes - S7 communication, as client Yes - Direct data exchange (slave-to-slave communication) No - Dutputs 244 byte Protocols Open IE communication • Isochronous operation (application synchronized up to terminal) Yes; For PROFIBUS only Equidistance Yes Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms		
• User data per address area, max. 32 byte - of which consistent, max. 32 byte Services - - PG/OP communication Yes - S7 routing Yes; with interface active - Global data communication No - S7 basic communication No - S7 basic communication No - S7 communication Yes - S7 communication, as client Yes - S7 communication, as server Yes - Direct data exchange (slave-to-slave communication) No - DPV1 No Transfer memory - - Inputs 244 byte - Outputs 244 byte Protocols Via CP 443-1 and loadable FB - Data length, max. 1452 bytes via CP 443-1 Adv. Isochronous operation (application synchronized up to terminal) Yes; For PROFIBUS only Equidistance Yes Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte Shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication		
	 Address area, max. 	
Services Yes - PG/OP communication Yes; with interface active - S7 routing Yes; with interface active - Global data communication No - S7 basic communication No - S7 communication, as client Yes - S7 communication, as server Yes - S7 communication, as server Yes - Direct data exchange (slave-to-slave communication) No - DPV1 No Transfer memory 244 byte - Outputs 244 byte Potocols 244 byte Open IE communication Via CP 443-1 and loadable FB - Data length, max. 1452 bytes via CP 443-1 Adv. Isochronous operation (application synchronized up to terminal) Yes; For PROFIBUS only Equidistance Yes Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms	 User data per address area, max. 	32 byte
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- S7 communication, as server Yes - Direct data exchange (slave-to-slave communication) No - DPV1 No Transfer memory 244 byte - Outputs 244 byte Protocols 244 byte Open IE communication 1452 bytes via CP 443-1 and loadable FB - Data length, max. 1452 bytes via CP 443-1 Adv. Isochronous mode 1452 bytes via CP 443-1 Adv. Isochronous operation (application synchronized up to terminal) Yes; For PROFIBUS only Equidistance Yes Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions Yes PG/OP communication Yes PG/OP communication Yes	— S7 communication	Yes
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- Outputs 244 byte Protocols	Transfer memory	
Protocols Open IE communication • ISO-on-TCP (RFC1006) Via CP 443-1 and loadable FB — Data length, max. 1452 bytes via CP 443-1 Adv. Isochronous mode Isochronous operation (application synchronized up to terminal) Equidistance Yes; For PROFIBUS only Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions PG/OP communication Yes PG/OP communication Yes • Number of connectable OPs without message 95	— Inputs	244 byte
Open IE communication • ISO-on-TCP (RFC1006) Via CP 443-1 and loadable FB — Data length, max. 1452 bytes via CP 443-1 Adv. Isochronous mode Isochronous operation (application synchronized up to terminal) Equidistance Yes Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions Yes PG/OP communication Yes 95 95	— Outputs	244 byte
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Isochronous operation (application synchronized up to terminal)Yes; For PROFIBUS onlyEquidistanceYesNumber of DP masters with isochronous mode3User data per isochronous slave, max.244 byteshortest clock pulse1 ms; 0.5 ms without use of SFC 126, 127max. cycle32 msCommunication functionsPG/OP communicationYes• Number of connectable OPs without message95	-	
to terminal)YesEquidistanceYesNumber of DP masters with isochronous mode3User data per isochronous slave, max.244 byteshortest clock pulse1 ms; 0.5 ms without use of SFC 126, 127max. cycle32 msCommunication functionsPG/OP communicationYes• Number of connectable OPs without message95		
Number of DP masters with isochronous mode 3 User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions PG/OP communication Yes • Number of connectable OPs without message 95		Yes; For PROFIBUS only
User data per isochronous slave, max. 244 byte shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions PG/OP communication Yes • Number of connectable OPs without message 95	Equidistance	Yes
shortest clock pulse 1 ms; 0.5 ms without use of SFC 126, 127 max. cycle 32 ms Communication functions PG/OP communication Yes • Number of connectable OPs without message 95	Number of DP masters with isochronous mode	3
max. cycle 32 ms Communication functions Yes PG/OP communication Yes • Number of connectable OPs without message 95	User data per isochronous slave, max.	244 byte
Communication functions PG/OP communication Yes • Number of connectable OPs without message 95	shortest clock pulse	1 ms; 0.5 ms without use of SFC 126, 127
PG/OP communication Yes • Number of connectable OPs without message 95	max. cycle	32 ms
PG/OP communication Yes • Number of connectable OPs without message 95	Communication functions	
.		Yes
proceeding	 Number of connectable OPs without message processing 	95

 Number of connectable OPs with message processing 	95; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
• supported	Yes
 Number of GD loops, max. 	16
 Number of GD packets, transmitter, max. 	16
 Number of GD packets, receiver, max. 	32
 Size of GD packets, max. 	54 byte
 Size of GD packet (of which consistent), max. 	1 variable
S7 basic communication	
• supported	Yes
 User data per job, max. 	76 byte
 User data per job (of which consistent), max. 	1 variable
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
 User data per job, max. 	64 kbyte
 User data per job (of which consistent), max. 	462 byte; 1 variable
S5 compatible communication	
supported	Yes; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or 443-5
• User data per job, max.	8 kbyte
 User data per job (of which consistent), max. 	240 byte
 Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. 	64/64
Standard communication (FMS)	
• supported	Yes; Via CP and loadable FB
Web server	
• supported	No
Number of connections	
• overall	96
 usable for PG communication 	95
— reserved for PG communication	1
— adjustable for PG communication, max.	0
 usable for OP communication 	95
— reserved for OP communication	1
— adjustable for OP communication, max.	0
 usable for S7 basic communication 	94
— reserved for S7 basic communication	0

 — adjustable for S7 basic communication, max. 	0
 usable for S7 communication 	94
- reserved for S7 communication	0
— adjustable for S7 communication, max.	0
• usable for routing	47
- reserved for routing	0
— adjustable for routing, max.	0
S7 massage functions	

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	Yes	
SCAN procedure	Yes	
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	Yes	
 Number of instances for alarm 8 and S7 	4 000	
communication blocks, max.		
• preset, max.	600	
Process control messages	Yes	
Number of archives that can log on simultaneously	32	
(SFB 37 AR_SEND)		
Number of messages		
• overall, max.	1 024	
• in 100 ms grid, max.	128	
● in 500 ms grid, max.	512	
• in 1000 ms grid, max.	1 024	
Number of additional values		
 with 100 ms grid, max. 	1	
• with 500, 1000 ms grid, max.	10	
Test commissioning functions		
Status block	Yes; Up to 16 simultaneously	
Single step	Yes	
Number of breakpoints	16	
Status/control		
Status/control variable	Yes; Up to 16 variable tables	
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters	
 Number of variables, max. 	70; Status/control	
Forcing		

Forcing	Yes
 Forcing, variables 	Inputs, outputs, bit memories, peripheral inputs, peripheral outputs
 Number of variables, max. 	512
Diagnostic buffer	
● present	Yes
 Number of entries, max. 	3 200
— adjustable	Yes
— preset	120
Service data	
• can be read out	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	ATEX II 3G Ex nA IIC T4 Gc
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	60 °C
Configuration	
Configuration software	
• STEP 7	Yes
Programming	
Command set	see instruction list
 Nesting levels 	7
 Access to consistent data in process image 	Yes
 System functions (SFC) 	see instruction list
 System function blocks (SFB) 	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	
— GRAFT	Yes

— HiGraph®	Yes
Number of simultaneously active SFCs	
— DPSYC_FR	2; SFC 11; per interface
— D_ACT_DP	8; SFC 12; per interface
- RD_REC	8; SFC 59; per interface
— WR_REC	8; SFC 58; per interface
— WR_PARM	8; SFC 55; per interface
— PARM_MOD	1; SFC 57; per interface
— WR_DPARM	2; SFC 56; per interface
— DPNRM_DG	8; SFC 13; per interface
— RDSYSST	8; SFC 51
- DP_TOPOL	1; SFC 103; per interface
Number of simultaneously active SFBs	
— RDREC	8; SFB 52; per interface, but not more than 32 across all external interfaces
— WRREC	8; SFB 53; per interface, but not more than 32 across all external interfaces
Know-how protection	
 User program protection/password protection 	Yes
 Block encryption 	Yes; With S7 block Privacy
Dimensions	
Width	50 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	900 g
last modified:	04/06/2018