SIEMENS

Data sheet

6ES7414-4HM14-0AB0



********** Replacement part ******** SIMATIC S7-400H, CPU 414H Central processing unit for S7-400H and S7-400F/FH, 4 interfaces: 1 MPI/DP, 1 DP and 2 for sync modules, 2.8 MB memory (1.4 MB data/1.4 MB program)

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General information	
Product type designation	CPU 414-4H
HW functional status	1
Firmware version	V4.5
Engineering with	
 Programming package 	STEP 7 V5.3 SP2 or higher with HW update
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	25 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.4 A
from backplane bus 5 V DC, max.	1.7 A
from backplane bus 24 V DC, max.	150 mA; Per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	6 W
Memory	
Type of memory	RAM
Work memory	
 integrated 	2.8 Mbyte
 integrated (for program) 	1.4 Mbyte
 integrated (for data) 	1.4 Mbyte
• expandable	No
Load memory	
 expandable FEPROM 	Yes
 expandable FEPROM, max. 	64 Mbyte
 integrated RAM, max. 	256 kbyte
expandable RAM	Yes
 expandable RAM, max. 	64 Mbyte
Backup	
• present	Yes
with battery	Yes; all data
without battery	No
Battery	
Backup battery	
Backup current, typ.	190 μA; Valid up to 40°C
Backup current, max.	660 µA

factors of influe	
Feeding of external backup voltage to CPU 5 V DC to 15 V	DC
CPU processing times	
for bit operations, typ. 0.045 µs	
for word operations, typ. 0.045 µs	
for fixed point arithmetic, typ. 0.045 µs	
for floating point arithmetic, typ. 0.135 µs	
CPU-blocks	
DB	
• Number, max. 4 095; Number	range: 1 to 4095
• Size, max. 64 kbyte	
FB	
• Number, max. 2 048; Number	range: 0 to 2047
• Size, max. 64 kbyte	
FC	
Number, max. 2 048; Number	range: 0 to 2047
• Size, max. 64 kbyte	
OB	
• Size, max. 64 kbyte	
Number of time alarm OBs	
Number of delay alarm OBs	
Number of cyclic interrupt OBs	
Number of process alarm OBs	
Nesting depth	
per priority class 24	
additional within an error OB	
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	
S7 times	
Number 2 048	
Retentivity	
— adjustable Yes	
— preset No times retent	ve
Time range	
— lower limit 10 ms	
— upper limit 9 990 s	
IEC timer	
• present Yes	
• Type SFB	
Data areas and their retentivity	
	nd load memory (with backup battery)
Flag	
• Size, max. 8 kbyte	
Retentivity available Yes	
Retentivity preset MB 0 to MB 15	
Number of clock memories 8; in 1 memory	byte
Local data	
adjustable, max.	
preset 8 kbyte	

I/O address area	
Inputs	8 kbyte
Outputs	8 kbyte
Process image	
Inputs, adjustable	8 kbyte
Outputs, adjustable	8 kbyte
Inputs, default	256 byte
Outputs, default	256 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	65 536
— of which central	65 536
Outputs	65 536
— of which central	65 536
Analog channels	
Inputs	4 096
— of which central	4 096
Outputs	4 096
— of which central	4 096
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	31 without message processing, 8 with message processing
Multicomputing	No
Interface modules	
 Number of connectable IMs (total), max. 	6
Number of connectable IM 460s, max.	6
Number of connectable IM 463s, max.	4; Single mode only
Number of DP masters	•
• integrated	2
• via CP	10
Mixed mode IM + CP permitted	No
Number of operable FMs and CPs (recommended)	Cas manual Automation Stratom S7 400H fault talerant systems Limited by
• 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
• Deviation per day (buffered), max.	1.7 s; Power off
Deviation per day (unbuffered), max.	8.6 s; Power on
Operating hours counter	
Number	8
Number/Number range	0 to 7
Range of values	0 to 32767 hours
Granularity	1 h
retentive	Yes
Clock synchronization	Vec
• supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes
 to DP, slave 	Yes

• in AS, master	Yes
• in AS, master • in AS, slave	Yes
Time difference in system when synchronizing via	
• MPI, max.	200 ms
Interfaces	
Number of RS 485 interfaces	2
Number of other interfaces	0
Optical interface	No
1. Interface	
Interface type	MPI/PROFIBUS 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 slave	No
MPI	
Number of connections	32
• Transmission rate, max.	12 Mbit/s
Services	Vez
- PG/OP communication	Yes
- Routing	Yes
— Global data communication	No
- S7 basic communication	No
	Yes
Number of connections, max.	16
Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	32
Services	
— PG/OP communication	Yes
— Routing	Yes
Global data communication	No
- S7 basic communication	No
— S7 communication	Yes
— Equidistance	No
- SYNC/FREEZE	No
 Activation/deactivation of DP slaves 	No
- Direct data exchange (slave-to-slave	No
communication)	
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
User data per DP slave	244 huto
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max. — Slots, max.	244 byte 244
— Siots, max. — per slot, max.	244 128 byte
2. Interface	
Interface type	PROFIBUS DP
Isolated	Yes
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
PROFIBUS DP master	

Number of connections, max.	16
Transmission rate, max.	10 12 Mbit/s
Number of DP slaves, max.	96
Services	30
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
- S7 basic communication	No
— S7 communication	Yes
	No
- SYNC/FREEZE	No
Activation/deactivation of DP slaves	No
 — Direct data exchange (slave-to-slave communication) 	No
Address area	
— Inputs, max.	6 kbyte
— Outputs, max.	6 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
3. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization submodule IF 960 6ES7960-1AA04-0XA0 or 6ES7960-1AB04-
riug-in intenace modules	0XA0
4. Interface	
Interface type	Pluggable synchronization submodule (FO)
Plug-in interface modules	Synchronization submodule IF 960 6ES7960-1AA04-0XA0 or 6ES7960-1AB04-
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Protocols	
Protocols SIMATIC communication	
	Yes
SIMATIC communication	Yes
SIMATIC communication • S7 routing communication functions / header PG/OP communication	Yes
SIMATIC communication • S7 routing communication functions / header	
SIMATIC communication • S7 routing communication functions / header PG/OP communication	Yes
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing	Yes 31
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing	Yes 31
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication	Yes 31 8
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported	Yes 31 8
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication	Yes 31 8 No
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication	Yes 31 8 No
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication	Yes 31 8 No No
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication • supported	Yes 31 8 No No Yes
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication • supported sa server	Yes 31 8 No No Yes Yes
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • supported as server • as client	Yes 31 8 No No Yes Yes Yes
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • supported as server • as client • User data per job, max.	Yes 31 8 No No Yes Yes Yes Yes 64 kbyte
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • supported as server • as server • as client • User data per job, max. • User data per job (of which consistent), max.	Yes 31 8 No No Yes Yes Yes Yes 64 kbyte
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • supported as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication	Yes 31 8 No No Yes Yes Yes Yes 64 kbyte 462 byte; 1 variable
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV)
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication • supported as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • User data per job, max. • User data per job, 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. • Number of simultaneous AG-SEND/AG-RECV orders per	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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 (of which consistent), max. • User data per job (of which consistent), max. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS)	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 24/24
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication • supported as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) • supported	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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 (of which consistent), max. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) • supported Number of connections	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 24/24 Yes; Via CP and loadable FB
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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. • Standard communication (FMS) • supported Number of connections • overall	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 24/24
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication • communication function / S7 basic communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • User data per job, 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. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) • supported Number of connections • overall • usable for PG communication	Yes 31 8 No No Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 2420 byte 32
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing • Number of connectable OPs with message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication S7 communication • communication • supported 37 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • 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 (of which consistent), max. • User data per job (of which consistent), max. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) • supported Number of connections	Yes 31 8 No No Yes Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 24/24 Yes; Via CP and loadable FB 32 1
SIMATIC communication • S7 routing communication functions / header PG/OP communication • Number of connectable OPs without message processing Global data communication • supported S7 basic communication • communication function / S7 basic communication • communication function / S7 basic communication • communication function / S7 basic communication S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • User data per job, 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. • Number of simultaneous AG-SEND/AG-RECV orders per CPU, max. Standard communication (FMS) • supported Number of connections • overall • usable for PG communication	Yes 31 8 No No Yes Yes 64 kbyte 462 byte; 1 variable Yes; (via CP max. 10 and FC AG_SEND and FC AG_RECV) 8 kbyte 240 byte 2420 byte 24/24

 reserved for OP communication 	1
— adjustable for OP communication, max.	0
usable for S7 basic communication	
— reserved for S7 basic communication	0
— adjustable for S7 basic communication, max.	0
usable for S7 communication	
- reserved for S7 communication	0
— adjustable for S7 communication, max.	0
usable for routing	
— reserved for routing	0
— adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	8
Symbol-related messages	No
Program alarms	Yes
simultaneously active Alarm-S blocks, max.	100
Alarm 8-blocks	Yes
 Number of instances for alarm 8 and S7 communication blocks, max. 	1 200
• preset, max.	900
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	16
Test commissioning functions	
Status block	Yes
Single step	Yes
Number of breakpoints	4
Status/control	
Status/control variable	Yes
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
 Number of variables, max. 	70
Forcing	
Forcing	Yes
Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
Number of variables, max.	256
Diagnostic buffer	
-	Yes
• present	Yes 3 200
 present Number of entries, max.	3 200
 present Number of entries, max. — adjustable 	3 200 Yes
 present Number of entries, max. — adjustable — preset 	3 200
 present Number of entries, max. — adjustable — preset configuration / header 	3 200 Yes
present Number of entries, max. adjustable preset configuration / header Configuration software	3 200 Yes 120
present Number of entries, max. adjustable preset configuration / header Configuration software • STEP 7	3 200 Yes
present Number of entries, max. adjustable preset configuration / header STEP 7 configuration / programming / header	3 200 Yes 120 Yes
• present • Number of entries, max. — adjustable — preset Configuration / header • STEP 7 configuration / programming / header • Command set	3 200 Yes 120 Yes see instruction list
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels 	3 200 Yes 120 Yes see instruction list 8
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image 	3 200 Yes 120 Yes see instruction list 8 Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) 	3 200 Yes 120 Yes see instruction list 8 Yes see instruction list
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) 	3 200 Yes 120 Yes see instruction list 8 Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language 	3 200 Yes 120 Yes see instruction list 8 Yes see instruction list see instruction list
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD 	3 200 Yes 120 Yes see instruction list 8 Yes see instruction list see instruction list see instruction list
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 Configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 Configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH 	3 200 Yes 120 Yes See instruction list 8 Yes See instruction list see instruction list see instruction list Yes Yes Yes Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 Configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 Configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® configuration / programming / number of simultaneously active	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes
 present Number of entries, max. adjustable preset Configuration / header Configuration software STEP 7 configuration / programming / header Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® 	3 200 Yes 120 Yes See instruction list 8 Yes see instruction list see instruction list see instruction list see instruction list see SEC / header

— PARM_MOD	1
- WR_DPARM	2
— DPNRM_DG	8
- RDSYSST	8
- DP_TOPOL	1
configuration / programming / number of simultaneously active SFB / header	
- RDREC	8
— WRREC	8
Know-how protection	
 User program protection/password protection 	Yes
Dimensions	
Width	50 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	995 g

last modified:

9/11/2023 🖸