SIEMENS

Data sheet

6ES7417-5HT06-0AB0



SIMATIC S7-400H, CPU 417-5H, central processing unit for S7-400H and S7-400F/FH, 5 interfaces: 1x MPI/DP, 1x DP, 1x PN and 2 for sync modules, 32 MB memory (16 MB data/16 MB program)

General information	
Product type designation	CPU 417-5H PN/DP
HW functional status	1
Firmware version	V6.0
Product function	
Isochronous mode	No
Engineering with	
 Programming package 	As of STEP 7 V5.5 SP2 with HF1
CiR - Configuration in RUN	
CiR synchronization time, basic load	60 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	
• integrated	32 Mbyte
integrated (for program)	16 Mbyte
integrated (for data)	16 Mbyte
expandable	No
Load memory	
expandable FEPROM	Yes; with Memory Card (FLASH)
expandable FEPROMexpandable FEPROM, max.	Yes; with Memory Card (FLASH) 64 Mbyte
• expandable FEPROM, max.	64 Mbyte
expandable FEPROM, max.integrated RAM, max.	64 Mbyte 1 Mbyte
expandable FEPROM, max.integrated RAM, max.expandable RAM	64 Mbyte 1 Mbyte Yes
 expandable FEPROM, max. integrated RAM, max. expandable RAM expandable RAM, max. 	64 Mbyte 1 Mbyte Yes
 expandable FEPROM, max. integrated RAM, max. expandable RAM expandable RAM, max. Backup	64 Mbyte 1 Mbyte Yes 64 Mbyte
 expandable FEPROM, max. integrated RAM, max. expandable RAM expandable RAM, max. Backup present 	64 Mbyte 1 Mbyte Yes 64 Mbyte Yes
 expandable FEPROM, max. integrated RAM, max. expandable RAM expandable RAM, max. Backup present with battery 	64 Mbyte 1 Mbyte Yes 64 Mbyte Yes Yes Yes Yes; all data
expandable FEPROM, max. integrated RAM, max. expandable RAM expandable RAM, max. Backup present with battery without battery	64 Mbyte 1 Mbyte Yes 64 Mbyte Yes Yes Yes Yes; all data

 backup current / of backup battery / maximum 	1 000 μΑ
buffer time / of backup battery / maximum	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	3 V DO 10 10 V DO
for bit operations, typ.	7.5 ns
for word operations, typ.	7.5 ns
for fixed point arithmetic, typ.	7.5 ns
for floating point arithmetic, typ.	15 ns
CPU-blocks	10 110
DB	
Number, max.	16 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	8 000; Number range: 0 to 7999
• Size, max.	64 kbyte
ОВ	
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	
Nesting depth • per priority class	24
	24 2
• per priority class	
per priority classadditional within an error OB	
 per priority class additional within an error OB Counters, timers and their retentivity	
 per priority class additional within an error OB Counters, timers and their retentivity S7 counter 	2
 per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable 	2 2 048 Yes
 per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit 	2 2 048 Yes 0
 per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable 	2 2 048 Yes 0 2 047
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset	2 2 048 Yes 0
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range	2 048 Yes 0 2 047 Z 0 to Z 7
 per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit Lower limit preset 	2 048 Yes 0 2 047 Z 0 to Z 7
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit upper limit upper limit upper limit upper limit upper limit	2 048 Yes 0 2 047 Z 0 to Z 7
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit — upper limit — upper limit	2 048 Yes 0 2 047 Z 0 to Z 7
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit — preset Counting range — lower limit — upper limit — upper limit IEC counter • present	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit — present versent IEC counter present Type	2 048 Yes 0 2 047 Z 0 to Z 7 O 9999 Yes SFB
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit preset Counting range I counter Number	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit — upper limit — Type Number S7 times	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit Second or seco	2 048 Yes 0 2 047 Z 0 to Z 7 O 9999 Yes SFB
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit — upper limit S7 times Number Retentivity Retentivity	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit upper limit supper limit upper limit supper li	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter present Type Number S7 times Number Retentivity — adjustable — lower limit	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter present Type Number S7 times Number Retentivity — adjustable — lower limit — upper limit — upper limit upper limit — upper limit — upper limit — upper limit	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0 2 047
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter present Type Number S7 times Number Retentivity — adjustable — lower limit — upper limit — preset	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter present Type Number S7 times Number Retentivity — adjustable — lower limit — upper limit preset Time range	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0 2 047 No times retentive
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present • Type • Number S7 times • Number Retentivity — adjustable — lower limit — upper limit — upper limit — preset Time range — lower limit — preset Time range — lower limit	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0 2 047 No times retentive
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter present Type Number S7 times Number Retentivity — adjustable — lower limit — upper limit — upper limit — upper limit — lower limit — upper limit — preset Time range — lower limit — upper limit	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0 2 047 No times retentive
per priority class additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit — preset Counting range — lower limit — upper limit IEC counter • present • Type • Number S7 times • Number Retentivity — adjustable — lower limit — upper limit — upper limit — preset Time range — lower limit — preset Time range — lower limit	2 2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes 0 2 047 No times retentive

 Type 	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	
• Size, max.	16 384 byte
Retentivity available	Yes
 Retentivity preset 	MB 0 to MB 15
Number of clock memories	8; in 1 memory byte
Local data	
adjustable, max.	64 kbyte
• preset	32 kbyte
Address area	
I/O address area	
• Inputs	16 kbyte
• Outputs	16 kbyte
Process image	
Inputs, adjustable	16 kbyte
Outputs, adjustable	16 kbyte
Inputs, default Outputs, default	1 024 byte
Outputs, default consistent data, max	1 024 byte
consistent data, max. Access to consistent data in process image.	244 byte Yes
Access to consistent data in process image Subprocess images	res
Subprocess images	15
Number of subprocess images, max. Digital channels	19
• 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	119
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; CP 443-5 Extended
 Mixed mode IM + CP permitted 	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
♥ Of , Fu	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	

 S7 communication, as server 	Yes
— Equidistance	No
— Isochronous mode	No
— SYNC/FREEZE	No
 Activation/deactivation of DP slaves 	No
 Direct data exchange (slave-to-slave communication) 	No
— 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
PROFIBUS DP slave	
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
Number of connection resources	120
Interface types	
RJ 45 (Ethernet)	Yes
 Number of ports 	2
• integrated switch	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	No
PROFIBUS DP slave	No
Open IE communication	Yes
Web server	No
Point-to-point connection Modio redundancy	No Yes
Media redundancy PROFINET IO Controller	Yes
PROFINET IO Controller	400 Mhit/s
Transmission rate, max. Son/icea	100 Mbit/s
Services — PG/OP communication	Voc
— PG/OP communication — S7 communication	Yes Yes
S7 communication Isochronous mode	res No
Isochronous mode 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, max. Number of connectable IO Devices for RT, max.	256 256
— of which in line, max.	256
Activation/deactivation of IO Devices	No
— Activation/deactivation of 10 Devices — IO Devices changing during operation (partner)	No
ports), supported	
Device replacement without swap medium	Yes
— Send cycles	250 μs, 500 μs, 1 ms, 2 ms, 4 ms
— Updating time	250 µs 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

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User data consistency, max. Open IF communication.	1 024 byte
Open IE communication	440
Number of connections, max.Local port numbers used at the system end	118 0, 20, 21, 25, 102, 135, 161, 34962, 34963, 34964, 65532, 65533, 65534, 65535
Keep-alive function, supported	Yes
3. Interface	100
Interface type	PROFIBUS DP
Number of connection resources	32
Interface types	UL .
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	100 11111
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
PROFIBUS DP master	110
Number of connections, max.	32
Transmission rate, max. Transmission rate, max.	12 Mbit/s
Number of DP slaves, max.	125
Services	120
— PG/OP communication	Yes
— Routing	Yes
— Routing — Global data communication	No
S7 basic communication	No
— S7 communication	Yes
S7 communication S7 communication, as client	Yes
S7 communication, as circle S7 communication, as server	Yes
— Equidistance	No
Legardistance Isochronous mode	No
— SYNC/FREEZE	No
Activation/deactivation of DP slaves	No
Direct data exchange (slave-to-slave communication)	No
— DPV0	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
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
Number of stations in the ring, max.	50
SIMATIC communication	
• S7 routing	Yes
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	118
— Data length, max.	32 kbyte
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 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. 	118
— Data length, max.	32 kbyte; 1 452 bytes via CP 443-1 Adv.
• UDP	Yes; via integrated PROFINET interface and loadable FBs
 Number of connections, max. 	118
— Data length, max.	1 472 byte
Web server	
• supported	No
Isochronous mode	
Equidistance	No
communication functions / header	
PG/OP communication	Yes
 Number of connectable OPs without message processing 	119
 Number of connectable OPs with message processing 	119; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
• supported	No
S7 basic communication	
communication function / S7 basic communication	No
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 CP max. 10 and FC AG_SEND and FC AG_RECV)
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	64/64
CPU, max.	
Standard communication (FMS)	
• supported	Yes; Via CP and loadable FB
Number of connections	
• overall	120
 usable for PG communication 	
 reserved for PG communication 	1
 adjustable for PG communication, max. 	0
 usable for OP communication 	
 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.	119; max. 119 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	Yes
 Number of instances for alarm 8 and S7 communication 	10 000

blocks, max.	
• preset, max.	1 200
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	64
Test commissioning functions	
Status block	Yes
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
Forcing	
• Forcing	Yes
Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
 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
EMC	
Emission of radio interference acc. to EN 55 011	
 Limit class A, for use in industrial areas 	Yes
 Limit class B, for use in residential areas 	No
configuration / header	
Configuration software	
• STEP 7	Yes
configuration / programming / header	
 Command set 	see instruction list
 Nesting levels 	7
 Access to consistent data in process image 	Von
	Yes
System functions (SFC)	see instruction list
System functions (SFC)	see instruction list
System functions (SFC)System function blocks (SFB)	see instruction list
System functions (SFC)System function blocks (SFB)Programming language	see instruction list see instruction list
 System functions (SFC) System function blocks (SFB) Programming language LAD 	see instruction list see instruction list Yes
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD 	see instruction list see instruction list Yes Yes
 System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL 	see instruction list see instruction list Yes Yes Yes
 System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL 	see instruction list see instruction list Yes Yes Yes Yes Yes
 System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC 	see instruction list see instruction list Yes Yes Yes Yes Yes Yes
 System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH 	see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes
System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® configuration / programming / number of simultaneously active — RD_REC	see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes
System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active.	see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® configuration / programming / number of simultaneously active — RD_REC WR_REC WR_PARM	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8
System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® configuration / programming / number of simultaneously active — RD_REC WR_REC WR_PARM	see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A Sec SFC / header 8 8 8
● System functions (SFC) ● System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG	see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A SFC / header 8 8 8 8 1
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A B B B B B B B B B B B B B B B B B B B
● System functions (SFC) ● System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A Yes
 System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL CFC GRAPH HiGraph® configuration / programming / number of simultaneously active RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A Yes
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active — RDREC 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes A Yes
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active — RDREC — WRREC Know-how protection 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active — RDREC — WRREC Know-how protection ■ User program protection/password protection 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8 8 1 2 8 8 1 2 8 8 8 1 Yes Yes
 System functions (SFC) System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously active — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — DPNRM_DG — RDSYSST — DP_TOPOL configuration / programming / number of simultaneously active — RDREC — WRREC Know-how protection 	see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8 8 1 2 8 8 1 2 8 8 8 1 8 8 8 8 8 8

Width	50 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	995 g

last modified: 9/7/2023 🖸