Data sheet

6ES7412-5HK06-0AB0



SIMATIC S7-400H, CPU 412-5H, central processing unit for S7-400H and S7-400F/FH, 5 interfaces: 1x MPI/DP, 1x DP, 1x PN and 2 for sync modules, 1 MB memory (512 KB data/512 KB program)

General information	
Product type designation	CPU 412-5H 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	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	
• integrated	1 Mbyte
integrated (for program)	512 kbyte
integrated (for data)	512 kbyte
expandable	No
Load memory	
 expandable FEPROM 	Yes; with Memory Card (FLASH)
 expandable FEPROM, max. 	64 Mbyte
integrated RAM, max.	512 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. 	180 μA; Valid up to 40°C

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
 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.	31.25 ns
for word operations, typ.	31.25 ns
for fixed point arithmetic, typ.	31.25 ns
for floating point arithmetic, typ.	62.5 ns
CPU-blocks	OEIO III
DB	
Number, max.	6 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	0.110,10
Number, max.	3 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	,
Number, max.	3 000; 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	4; OB 10-13
 Number of delay alarm OBs 	4; OB 20-23
 Number of cyclic interrupt OBs 	4; OB 32-35
 Number of process alarm OBs 	4; OB 40-43
 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	24 1
additional within an error OB	1
additional within an error OB Counters, timers and their retentivity S7 counter Number	
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity	2 048
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable	1 2 048 Yes
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit	1 2 048 Yes 0
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity — adjustable — lower limit — upper limit	1 2 048 Yes 0 2 047
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset	1 2 048 Yes 0
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range	1 2 048 Yes 0 2 047 Z 0 to Z 7
additional within an error OB Counters, timers and their retentivity S7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit	1 2 048 Yes 0 2 047 Z 0 to Z 7
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	1 2 048 Yes 0 2 047 Z 0 to Z 7
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 lecc counter	2 048 Yes 0 2 047 Z 0 to Z 7
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 upper limit Present	1 2 048 Yes 0 2 047 Z 0 to Z 7 0 999
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 IEC counter present Type	1 2 048 Yes 0 2 047 Z 0 to Z 7 0 9999 Yes SFB
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	1 2 048 Yes 0 2 047 Z 0 to Z 7 0 999
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 Number FY pe Number S7 times	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
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 ST times Number	1 2 048 Yes 0 2 047 Z 0 to Z 7 0 9999 Yes SFB
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	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity)
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	2 048 Yes 0 2 047 Z 0 to Z 7 0 999 Yes SFB Unlimited (limited only by RAM capacity) 2 048 Yes
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
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	1 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
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 — 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
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 — preset Time range	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
additional within an error OB Counters, timers and their retentivity 7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit upper limit rupper limit IEC counter present Type Number 7 times Number Retentivity adjustable lower limit upper limit preset Time range 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 2 047 No times retentive
additional within an error OB Counters, timers and their retentivity 57 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit upper limit IEC counter present Type Number S7 times Number Retentivity adjustable lower limit upper 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 2 047 No times retentive
additional within an error OB Counters, timers and their retentivity 7 counter Number Retentivity adjustable lower limit upper limit preset Counting range lower limit upper limit upper limit rupper limit IEC counter present Type Number 7 times Number Retentivity adjustable lower limit upper limit preset Time range 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 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.	8 192 byte
 Retentivity available 	Yes
 Retentivity preset 	MB 0 to MB 15
Number of clock memories	8; in 1 memory byte
Local data	
adjustable, max.	16 kbyte
• preset	8 kbyte
Address area	
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	45
Number of subprocess images, max. Picital changes.	15
Digital channels	05 500
Inputs — of which central	65 536 65 536
Outputs	65 536
of which central	65 536
Analog channels	00 000
• 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	47
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
- CD D+D	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
·	
Fime of day	

 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	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
Granularity	1 h
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	Yes; As client
Time difference in system when synchronizing via	
• Ethernet, max.	10 ms; Via NTP
● MPI, max.	200 ms
Interfaces	
Number of RS 485 interfaces	2
Number of other interfaces	2; Fiber-optic interface
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; 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	12 IVIDIUS
— PG/OP communication	Yes
	Yes
Routing Global data communication	Yes No
— S7 basic communication	No You
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
PROFIBUS DP master	10: If a diagnostice reporter is used on the line the market of several
 Number of connections, max. 	16; 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
Global data communication	No
— S7 basic communication	No
S7 basic communication S7 communication S7 communication, as client	Yes Yes

 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	48
Interface types	
• RJ 45 (Ethernet)	Yes
Number of ports	2
• integrated switch	Yes
Protocols	165
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	No
Media redundancy	Yes
PROFINET IO Controller	160
Transmission rate, max.	100 Mbit/s
Services	TOO INDIES
— PG/OP communication	Yes
— S7 communication	Yes
— Sochronous mode	No
Shared device	Yes; Single mode only
— Snared device — Prioritized startup	No
— Prioritized startup — 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, in redundant mode via both interfaces
— number of connectable 10 Devices for RT, max. — of which in line, max.	256
Of which in line, max. Activation/deactivation of IO Devices	No
 IO Devices changing during operation (partner ports), supported 	No
 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

	40041.4
— User data consistency, max.	1 024 byte
Open IE communication	40
Number of connections, max.Local port numbers used at the system end	46 0, 20, 21, 25, 102, 135, 161, 34962, 34963, 34964, 65532, 65533, 65534, 65535
Keep-alive function, supported	Yes
3. Interface	
Interface type	PROFIBUS DP
Number of connection resources	16
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. 	12 Mbit/s
 Number of DP slaves, max. 	64
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	No
— SYNC/FREEZE	No
 Activation/deactivation of DP slaves 	No
 Direct data exchange (slave-to-slave communication) 	No
— DPV0	Yes
— DPV1	Yes
Address area	Alberta
— Inputs, max.	4 kbyte
— Outputs, max.	4 kbyte
User data per DP slave	244 byte
— User data per DP slave, max.— Inputs, max.	244 byte
— Outputs, max. — Outputs, max.	244 byte
— Slots, max.	244 byte
— per slot, max.	128 byte
4. Interface	.25 0/10
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. 	46
— 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.	46
— 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. 	46
— 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	47
 Number of connectable OPs with message processing 	47; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
• supported	No
S7 basic communication	
• supported	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	48
 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.	47; Max. 47 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 8 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.	250; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks
Alarm 8-blocks	Yes
Number of instances for alarm 8 and S7 communication	600
- realistic of instances for alarm 6 and 67 communication	

blocks, max.	
• preset, max.	300
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	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. 	256
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	
configuration / programming / header • Command set	see instruction list
	see instruction list
Command set	
Command setNesting levels	7
Command setNesting levelsAccess to consistent data in process image	7 Yes
 Command set Nesting levels Access to consistent data in process image System functions (SFC) 	7 Yes see instruction list
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) 	7 Yes see instruction list
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language 	7 Yes see instruction list see instruction list
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD 	7 Yes see instruction list see instruction list
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD 	7 Yes see instruction list see instruction list Yes Yes
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL 	7 Yes see instruction list see instruction list Yes Yes Yes
 Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD STL SCL 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes
 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 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes
 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 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 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® 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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.	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 — RD_REC	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 — RD_REC WR_REC	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 — RD_REC WR_REC WR_PARM	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 actived RD_REC WR_REC WR_PARM PARM_MOD	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 actived RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG	7 Yes see instruction list 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
 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 — RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST 	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 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 actived with the configuration of th	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 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 RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL configuration / programming / number of simultaneously active	7 Yes see instruction list Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 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 RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL configuration / programming / number of simultaneously active RDREC RDSYSST DP_TOPOL configuration / programming / number of simultaneously active RDREC 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8 8 1 2 8 8 1 2 8 8 8 1
 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 actives RD_REC WR_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL configuration / programming / number of simultaneously actives RDSYSST DP_TOPOL configuration / programming / number of simultaneously actives RDREC WRREC 	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8 8 1 2 8 8 1 2 8 8 8 1
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 — RD_REC WR_PARM PARM_MOD WR_DPARM DPNRM_DG RDSYSST DP_TOPOL configuration / programming / number of simultaneously active — RD_REC WR_REC WR_REC WR_DPARM DPNRM_DG RDSYSST DP_TOPOL configuration / programming / number of simultaneously active — RDREC WRREC Know-how protection	7 Yes see instruction list see instruction list Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 8 8 8 1 2 8 8 1 2 8 8 8 1

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

last modified: 4/1/2022 🖸