SIEMENS

Data sheet

6AG1317-2FK14-2AB0



SIPLUS S7-300 CPU 317F-2PN/DP -25...+60°C with conformal coating based on 6ES7317-2FK14-0AB0 . Central processing unit with 1.5 MB work memory, 1st interface MPI/DP 12Mbit/ s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

General information Product function • Isochronous mode Yes; Via PROFIBUS DP or PROFINET interface Engineering with • • Programming package STEP 7 V5.5 or higher, Distributed Safety V5.4 SP4 Supply voltage • Rated value (DC) • • 24 V DC Yes permissible range, lower limit (DC) 20.4 V permissible range, upper limit (DC) 28.8 V external protection for power supply lines (recommendation) 2 A min. Mains buffering • Mains/voltage failure stored energy time • Repeat rate, min. 1 s		
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(recommendation) Mains buffering • Mains/voltage failure stored energy time 5 ms	permissible range, upper limit (DC)	28.8 V
Mains buffering • Mains/voltage failure stored energy time 5 ms		2 A min.
Mains/voltage failure stored energy time 5 ms	· · · · · · · · · · · · · · · · · · ·	
	Mains buffering	
• Repeat rate, min. 1 s	 Mains/voltage failure stored energy time 	5 ms
	• Repeat rate, min.	1 s
Input current	Input current	
Current consumption (rated value) 750 mA	Current consumption (rated value)	750 mA
Current consumption (in no-load operation), typ. 150 mA	Current consumption (in no-load operation), typ.	150 mA

Inrush current, typ.	4 A
l²t	1 A ² ·s
Power loss	
Power loss typ.	4.65 W
Memory	
Work memory	1 526 kbyta
• integrated	1 536 kbyte
• expandable	No
 Size of retentive memory for retentive data blocks 	256 kbyte
Load memory	
• Plug-in (MMC)	Yes
 Plug-in (MMC), max. 	8 Mbyte
 Data management on MMC (after last programming), min. 	10 y
Backup	
● present	Yes; Guaranteed by MMC (maintenance-free)
 without battery 	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.025 µs
for word operations, typ.	0.03 μs
for fixed point arithmetic, typ.	0.04 μs
for floating point arithmetic, typ.	0.16 µs
CPU-blocks	
Number of blocks (total)	2 048; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
• Number, max.	2 048; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
 Number, max. 	2 048; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
● Number, max.	2 048; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
• Size, max.	64 kbyte
 Number of free cycle OBs 	1; OB 1
 Number of time alarm OBs 	1; OB 10
 Number of delay alarm OBs 	2; OB 20, 21
 Number of cyclic interrupt OBs 	4; OB 32, 33, 34, 35

Ö PNAP

 Number of process alarm OBs 	1; OB 40
 Number of DPV1 alarm OBs 	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously)
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	6; OB 80, 82, 83, 85, 86, 87 (OB83 only for PROFINET IO)
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
 per priority class 	16
 additional within an error OB 	4
Counters, timers and their retentivity	
S7 counter	
Number	512
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	511
— preset	Z 0 to Z 7
Counting range	
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Туре	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	
• Number	512
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	511
— preset	No retentivity
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	all, max. 256 KB
Flag	
 Number, max. 	4 096 byte
 Retentivity available 	Yes; From MB 0 to MB 4 095
Retentivity preset	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
 Retentivity adjustable 	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
 per priority class, max. 	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
Inputs	8 192 byte
Outputs	8 192 byte
of which distributed	
— Inputs	8 192 byte
— Outputs	8 192 byte
Process image	
• Inputs	8 192 byte
Outputs	8 192 byte
 Inputs, adjustable 	8 192 byte
 Outputs, adjustable 	8 192 byte
 Inputs, default 	256 byte
• Outputs, default	256 byte
Subprocess images	
 Number of subprocess images, max. 	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
Inputs	65 536
— of which central	1 024
Outputs	65 536
— of which central	1 024
Analog channels	
• Inputs	4 096
— of which central	256
Outputs	4 096
— of which central	256
Hardware configuration	
Number of expansion units, max.	3

• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	
● FM	8
• CP, PtP	8
• CP, LAN	10
Rack	
 Racks, max. 	4
 Modules per rack, max. 	8
Time of day	
Clock	

 Hardware clock (real-time) 	Yes
 retentive and synchronizable 	Yes
Backup time	6 wk; At 40 °C ambient temperature
 Deviation per day, max. 	10 s; Typ.: 2 s
 Behavior of the clock following POWER-ON 	Clock continues running after POWER OFF
 Behavior of the clock following expiry of backup period 	Clock continues to run with the time at which the power failure occurred
Operating hours counter	
Number	4
Number/Number range	0 to 3
 Range of values 	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes
• to MPI, master	Yes
● to MPI, slave	Yes
● to DP, master	Yes; With DP slave only slave clock
● to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
 on Ethernet via NTP 	Yes; As client
Digital inputs	
Number of digital inputs	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0

Analog outputs

-	
Interfaces	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	1
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	200 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
 Point-to-point connection 	No
MPI	
 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	No; but via CP and loadable FB
— S7 communication, as server	Yes
PROFIBUS DP master	
 Transmission rate, max. 	12 Mbit/s
 Number of DP slaves, max. 	124
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
— SYNC/FREEZE	Yes

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 Activation/deactivation of DP slaves 	Yes
 — Number of DP slaves that can be simultaneously activated/deactivated, max. 	8
— Direct data exchange (slave-to-slave	Yes; as subscriber
communication)	
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	
Transmission rate, max.	12 Mbit/s
 automatic baud rate search 	Yes; only with passive interface
 Address area, max. 	32
• User data per address area, max.	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
- Global data communication	No
— S7 basic communication	No
- S7 communication	Yes
— S7 communication, as client	No
— S7 communication, as server	Yes; Connection configured on one side only
— Direct data exchange (slave-to-slave	Yes
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface Interface type	PROFINET
Physics	Ethernet RJ45
Isolated	Yes
automatic detection of transmission rate	Yes; 10/100 Mbit/s
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	Yes
Interface types	
Number of ports	2
• integrated switch	Yes
-	

Protocols	
• MPI	No
PROFINET IO Controller	Yes; Also simultaneously with IO-Device functionality
PROFINET IO Device	Yes; Also simultaneously with IO Controller functionality
• PROFINET CBA	Yes
PROFIBUS DP master	No
PROFIBUS DP slave	No
Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP
Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	
 Transmission rate, max. 	100 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32
— Isochronous mode	Yes; OB 61; isochronous mode can only be used alternatively on PROFIBUS DP or PROFINET IO
— IRT	Yes
— Shared device	Yes
— Prioritized startup	Yes
 — Number of IO devices with prioritized startup, max. 	32
— Number of connectable IO Devices, max.	128
— Of which IO devices with IRT, max.	64
— of which in line, max.	64
 — Number of IO Devices with IRT and the option "high flexibility" 	128
— of which in line, max.	61
 — Number of connectable IO Devices for RT, 	128
max.	
— of which in line, max.	128
 Activation/deactivation of IO Devices 	Yes
 — Number of IO Devices that can be 	8
simultaneously activated/deactivated, max.	
 — IO Devices changing during operation (partner ports), supported 	Yes
— Number of IO Devices per tool, max.	8
- Device replacement without swap medium	Yes
— Send cycles	250 $\mu s,$ 500 $\mu s,1$ ms; 2 ms, 4 ms (not in the case of IRT with "high flexibility" option)



— Updating time	250 μs to 512 ms (depending on the operating mode, see Manual
	"S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
— User data consistency, max.	1 024 byte
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; with loadable FBs, max. configurable connections: 16, max.
	number of instances: 32
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFIenergy
	standard FB for I-Device
— Shared device	Yes
 — Number of IO Controllers with shared 	2
device, max.	
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
— User data per submodule, max.	1 024 byte
PROFINET CBA	
acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	
 Number of connections, max. 	16
 Local port numbers used at the system end 	0, 20, 21, 25, 80, 102, 135, 161, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
 Keep-alive function, supported 	Yes
Protocols	
Redundancy mode	
Media redundancy	
— Switchover time on line break, typ.	200 ms; PROFINET MRP
— Number of stations in the ring, max.	50
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	16



	4.400 h. 4-
 Data length for connection type 01H, max. 	1 460 byte
 Data length for connection type 11H, max. 	32 768 byte
 — several passive connections per port, supported 	Yes
 ISO-on-TCP (RFC1006) 	Yes; via integrated PROFINET interface and loadable FBs
- Number of connections, max.	16
— Data length, max.	32 768 byte
• UDP	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	16
— Data length, max.	1 472 byte
Web server	
• supported	Yes
 User-defined websites 	Yes
 Number of HTTP clients 	5
Isochronous mode Isochronous operation (application synchronized up	Yes; Via PROFIBUS DP or PROFINET interface
to terminal)	Tes, via FROHBOS DE OFFROHMET Intellace
Communication functions	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	
 supported 	Yes
 Number of GD loops, max. 	8
 Number of GD packets, max. 	8
 Number of GD packets, transmitter, max. 	8
 Number of GD packets, receiver, max. 	8
 Size of GD packets, max. 	22 byte
 Size of GD packet (of which consistent), max. 	22 byte
S7 basic communication	
• supported	Yes
 User data per job, max. 	76 byte
• User data per job (of which consistent), max.	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)
	,
S7 communication	
S7 communication supported 	Yes
• supported	Yes
supportedas server	Yes Yes Yes; via integrated PROFINET interface and loadable FB or via
supportedas serveras client	Yes Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs
 supported as server as client User data per job, max. 	Yes Yes Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB See online help of STEP 7 (shared parameters of the SFBs/FBs

ROFINET CBA (at set setpoint communication load)	
Setpoint for the CPU communication load	50 %
 Number of remote interconnection partners 	32
 Number of functions, master/slave 	30
 Total of all master/slave connections 	1 000
 Data length of all incoming connections master/slave, max. 	4 000 byte
 Data length of all outgoing connections master/slave, max. 	4 000 byte
 Number of device-internal and PROFIBUS interconnections 	500
 Data length of device-internal und PROFIBUS interconnections, max. 	4 000 byte
 Data length per connection, max. 	1 400 byte
Remote interconnections with acyclic transmission	
— Sampling interval, min.	500 ms
— Number of incoming interconnections	100
- Number of outgoing interconnections	100
 — Data length of all incoming interconnections, max. 	2 000 byte
 — Data length of all outgoing interconnections, max. 	2 000 byte
— Data length per connection, max.	1 400 byte
Remote interconnections with cyclic transmission	
— Transmission frequency: Transmission interval, min.	10 ms
- Number of incoming interconnections	200
- Number of outgoing interconnections	200
 — Data length of all incoming interconnections, max. 	2 000 byte
 — Data length of all outgoing interconnections, max. 	2 000 byte
— Data length per connection, max.	450 byte
HMI variables via PROFINET (acyclic)	
— Number of stations that can log on for HMI	3; 2x PN OPC/1x iMap
variables (PN OPC/iMap)	
-	500 ms
variables (PN OPC/iMap)	500 ms 200
variables (PN OPC/iMap) — HMI variable updating	
variables (PN OPC/iMap) — HMI variable updating — Number of HMI variables	200
variables (PN OPC/iMap) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max.	200
variables (PN OPC/iMap) — HMI variable updating — Number of HMI variables — Data length of all HMI variables, max. PROFIBUS proxy functionality	200 2 000 byte



Number of connections	
• overall	32
 usable for PG communication 	31
— reserved for PG communication	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	31
 usable for OP communication 	31
— reserved for OP communication	1
— adjustable for OP communication, min.	1
— adjustable for OP communication, max.	31
 usable for S7 basic communication 	30
- reserved for S7 basic communication	0
— adjustable for S7 basic communication,	0
min. — adjustable for S7 basic communication,	30
max.	
usable for S7 communication	16
- reserved for S7 communication	0
— adjustable for S7 communication, min.	0
— adjustable for S7 communication, max.	16
• total number of instances, max.	32
• usable for routing	X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max. 14; X2 as PROFINET: 24 max.
S7 message functions	
Number of login stations for message functions, max.	32; Depending on the configured connections for PG/OP and S7
	basic communication
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	300
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	
 Status/control variable 	
	Yes
Variables	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	Inputs, outputs, memory bits, DB, times, counters 30
	Inputs, outputs, memory bits, DB, times, counters
 Number of variables, max. 	Inputs, outputs, memory bits, DB, times, counters 30
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	Inputs, outputs, memory bits, DB, times, counters 30 30 14
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing 	Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	Inputs, outputs, memory bits, DB, times, counters 30 30 14

Diagnostic buffer	
present	Yes
 Number of entries, max. 	500
— adjustable	No
— of which powerfail-proof	100; Only the last 100 entries are retained
 Number of entries readable in RUN, max. 	499
— adjustable	Yes; From 10 to 499
— preset	10
Service data	
● can be read out	Yes
Standards, approvals, certificates CE mark	Vee
UL approval	Yes Yes; File E239877
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	Yes
Railway application	
• EN 50155	No
Ambient conditions	
Ambient temperature during operation	-25 °C; = Tmin
• min.	60 °C; = Tmax
 max. Ambient temperature during storage/transportation 	00 C, - max
	-40 °C
• min.	70 °C
 max. Altitude during operation relating to sea level 	
Installation altitude above sea level, max.	2 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	
Relative humidity	
 With condensation, tested in accordance with 	100 %; RH incl. condensation/frost (no commissioning under
IEC 60068-2-38, max.	condensation conditions)
Resistance	
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *



	Use on ships/at sea	
	— to biologically active substances according	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class
to EN 60721-3-6 52 (severity degree 3); * to mechanically active substances according to EN 60721-3-6 Yes; Class 653 Ind. sand, dust; * Usage in industrial process technology Against chemically active substances acc. to EN 60654-4 Yes; Class 3 (excluding trichlorethylene) Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Yes; Class 3 (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (sait spray) and level LB3 (oil) Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration software • STEP 7 Yes; V5.5 or higher Programming see instruction list 8 • System function SICFC) see instruction list 8 • System function blocks (SFB) see instruction list Programming language LAD Yes Yes - FBD Yes Yes - GRAPH Yes Yes - Harding classification of environmental conditions for process, environmental conditions for process, environmental conditions for process, environmental conditions for procesenviron Yes; Yes; Yes; Yes; Yes; Yes;	to EN 60721-3-6	6B3 on request
according to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN 80654.4 Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Yes: Class 3 (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 80721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 80654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration Configuration software • STEP 7 Yes; V5.5 or higher Programming see instruction list • STEP 7 Yes; V5.5 or higher Programming see instruction list • System function blocks (SFD) see instruction list • System function blocks (SFB) see instruction list Programming language Yes - LAD Yes - SRL Yes - SRL Yes - GRAPH Yes - GRAPH Yes - User program protection/password protection Yes Vidth 40 mm Height 125 mm Eyeth Higraph®		
- Against chemically active substances acc. Yes; Class 3 (excluding trichlorethylene) - Environmental conditions for process, measuring and control systems acc. to ANSU/SA-71.04 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60664-4 and ANSU/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration Configuration software * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration software * Step P 7 Yes; V5.5 or higher Programming see instruction list 8 • System functions (SFC) see instruction list • System functions (SFC) see instruction list Programming language - LAD Yes - LAD Yes - SCL Yes - SCL Yes - GRAPH Yes - HiGraph® Yes Width 40 mm Height 125 mm Depth 130 mm	-	Yes; Class 6S3 incl. sand, dust; *
to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to ANSU(SA-71.04 Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (sait spray) and level LB3 (oil) Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60554-4 and ANSU/SA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration Configuration software * StEP 7 • STEP 7 Yes; V5.5 or higher Programming see instruction list • Nesting levels 8 • System functions (SFC) see instruction list • System function blocks (SFB) see instruction list Programming language - LAD Yes - EBD Yes Yes - SCL Yes Yes - GRAPH Yes Yes - User program protection/password protection Yes Width 40 mm Height 125 mm Depth 30 mm	Usage in industrial process technology	
measuring and control systems acc. to concentrations up to the limits of EN 60721-3-3 class 3C4 ANSI/ISA-71.04 permissible); level LC3 (salt spray) and level LB3 (oil) Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused configuration - Note regarding classification of interfaces during operation! Configuration software - Ves: V5.5 or higher Programming - See instruction list e Command set see instruction list • Nesting levels 8 • System function blocks (SFB) see instruction list Programming language - LAD - LAD Yes - STL Yes - SCL Yes - SCL Yes - GRAPH Yes - User program protection/password protection Yes Ves: With S7 block Privacy Yes: With S7 block Privacy		Yes; Class 3 (excluding trichlorethylene)
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration * The supplied plug covers must remain in place over the unused interfaces during operation! Configuration software * Set Start	measuring and control systems acc. to	concentrations up to the limits of EN 60721-3-3 class 3C4
environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 interfaces during operation! Configuration software • STEP 7 Yes; V5.5 or higher Programming see instruction list • Command set see instruction list • Nesting levels 8 • System functions (SFC) see instruction list • System functions (SFB) see instruction list Programming language - - LAD Yes - FBD Yes - SCL Yes - SCL Yes - GRAPH Yes - HiGraph® Yes Vise; With S7 block Privacy Step from Pimensions Yes; With S7 block Privacy Vidth 40 mm Height 125 mm Depth 130 mm	Remark	
Configuration software • STEP 7 Yes; V5.5 or higher Programming • Command set see instruction list • Nesting levels 8 • 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 Yes - HiGraph® Yes Viser program protection/password protection Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	environmental conditions acc. to EN 60721,	
• STEP 7 Yes; V5.5 or higher Programming • Command set see instruction list • Nesting levels 8 • 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 Yes - HiGraph® Yes Mow-how protection Yes; With S7 block Privacy Pimensions Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm	Configuration	
Programming • Command set see instruction list • Nesting levels 8 • 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 Yes - HiGraph® Yes Mow protection Yes • Block encryption Yes; With S7 block Privacy Vidth 40 mm Height 125 mm Depth 130 mm	Configuration software	
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- GRAPH Yes - HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes; With S7 block Privacy • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	— SCL	Yes
HiGraph®YesKnow-how protectionYes• User program protection/password protectionYes• Block encryptionYes; With S7 block PrivacyDimensionsVidthWidth40 mmHeight125 mmDepth130 mm	— CFC	Yes
Know-how protection • User program protection/password protection • Block encryption Yes; With S7 block Privacy Dimensions Width 40 mm Height 125 mm Depth 130 mm	— GRAPH	Yes
• User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions Width 40 mm Height 125 mm Depth 130 mm	— HiGraph®	Yes
Block encryption Yes; With S7 block Privacy Dimensions Width 40 mm Height 125 mm Depth 130 mm Weights	Know-how protection	
Dimensions Width 40 mm Height 125 mm Depth 130 mm	User program protection/password protection	Yes
Width 40 mm Height 125 mm Depth 130 mm	Block encryption	Yes; With S7 block Privacy
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last modified:

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