SIEMENS

Data sheet

6ES7317-2FK14-0AB0

SIMATIC S7-300 CPU317F-2 PN/DP, Central processing unit with 1.5 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required



General information	
HW functional status	01
Firmware version	V3.2
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	2 A min.
(recommendation)	
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
• Repeat rate, min.	1 s
Input current	

Current consumption (rated value)	750 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	4 A
	1 A ² ·s
Power loss	
Power loss, typ.	4.65 W
Memory	
Work memory	
• integrated	1 536 kbyte
• expandable	No
 Size of retentive memory for retentive data 	256 kbyte
blocks	
Load memory	
 Plug-in (MMC) 	Yes
 Plug-in (MMC), max. 	8 Mbyte
 Data management on MMC (after last 	10 у
programming), min.	
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
 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	

3		
Number of DP masters		
1		
4		
Number of operable FMs and CPs (recommended)		
8		
8		
10		
Rack		
4		
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	
Number of analog outputs	0
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
 Activation/deactivation of DP slaves 	Yes
— Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	
— 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 μ s, 500 μ s, 1 ms; 2 ms, 4 ms (not in the case of IRT with "high
— Updating time	flexibility" option) 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 PROFlenergy standard FB for I-Device
— Shared device	Yes
 — Number of IO Controllers with shared device, max. 	2
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, 23, 25, 80, 102, 135, 161, 443, 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
 — 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 to terminal)	Yes; Via PROFIBUS DP or PROFINET interface
Communication functions	
PG/OP communication	Yes
Data record routing	Yes
Global data communication	No.
 supported 	Yes
supportedNumber of GD loops, max.	8
 supported Number of GD loops, max. Number of GD packets, max. 	8 8
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. 	8 8 8
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. 	8 8 8 8
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. 	8 8 8 8 22 byte
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 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication 	8 8 8 8 22 byte 22 byte
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 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication supported 	8 8 8 8 22 byte 22 byte Yes
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. 	8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. User data per job (of which consistent), max. 	8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with
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 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. User data per job (of which consistent), max. S7 communication supported supported supported supported supported supported 	8 8 8 8 22 byte 22 byte 22 byte 76 byte 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes
 supported Number of GD loops, max. Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. Size of GD packet, max. Size of GD packet (of which consistent), max. S7 basic communication supported User data per job, max. User data per job (of which consistent), max. S7 communication supported as server 	8 8 8 8 22 byte 22 byte 22 byte 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes

• supported	Yes; via CP and loadable FC
PROFINET 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 variables (PN OPC/iMap)	3; 2x PN OPC/1x iMap
— HMI variable updating	500 ms
— Number of HMI variables	200
— Data length of all HMI variables, max.	2 000 byte
PROFIBUS proxy functionality	
— supported	Yes
 — Number of linked PROFIBUS devices 	16

— Data length per connection, max.	240 byte; Slave-dependent
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. 	30
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	
• Forcing	Yes
• Forcing, variables	Inputs, outputs

Diagnostic buffer Ves • present Ves • Number of entries, max. 500	 Number of variables, max. 	10	
 present Yes Number of entries, max. adjustable No - adjustable in RUN, max. 499 - adjustable in RUN, max. 499 - adjustable Preset 10 Service data can be read out Yes Ambient conditions Service data or C for C for C configuration software STEP 7 Yes; Vs.5 or higher Programming See instruction list System functions (SFC) see instruction list System function blocks (SFB) See instruction list Set instruction list System function blocks (SFB) See instruction list Set instruction list			
• Number of entries, max.500- adjustableNo- of which powerfail-proof100; Only the last 100 entries are retained• Number of entries readable in RUN, max.499 adjustableYes; From 10 to 499- preset10Service dataVest from 10 to 499- preset0Service dataVest colspan="2">Configuration Generation- min.0 °C- max.60 °CConfiguration softwareVes; VS.5 or higherProgrammingVes; VS.5 or higherProgramming language- LADYes- LADVes- St.L- St.LYes- St.L- GRAPHYes With S7 block PrivacyDimensioneVes; With S7 block PrivacyDimensioneVietdha- St.L- GRAPH- Ves; With S7 block PrivacyDimensioneVietdha <td colsp<="" td=""><td></td><td>Yes</td></td>	<td></td> <td>Yes</td>		Yes
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• can be read out Yes Ambient conditions Ambient temperature during operation • min. 0 °C • max. 60 °C Configuration 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 - SCL Yes - SCL Yes - SCL Yes - SCL Yes - GRAPH Yes - HiGraph® Yes - HiGraph® Yes Vieth 57 block Privacy 2 Dimensions Yes Width 40 mm Height 125 mm Depth 130 mm	· · · · · · · · · · · · · · · · · · ·		
Ambient temperature during operation 0 °C • min. 60 °C Configuration 60 °C Configuration software 60 °C • STEP 7 Yes; V5.5 or higher Programming 8 • Command set see instruction list • Nesting levels 8 • System functions (SFC) see instruction list • System function blocks (SFB) see instruction list • CFC Yes - SCL Yes - CFC Yes - HIGraph® Yes Know-how protection Yes; With S7 block Privacy • Block encryption Yes; With S7 block Privacy Dimensions Yes Width 40		Yes	
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• max. 60 °C Configuration software		0 °C	
Configuration 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) Yes - SCL Yes - SCL Yes - SCL Yes - GRAPH Yes • HiGraph® Yes Ves Yes; With S7 block Privacy Pimensions Yes; With S7 block Privacy Width 40 mm Height 120 mm Depth 130 mm </td <td></td> <td></td>			
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 - SCL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Width 40 mm Height 125 mm Depth 130 mm	• max.		
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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 Now-how protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm	Configuration software		
• Command setsee instruction list• Nesting levels8• System functions (SFC)see instruction list• System function blocks (SFB)see instruction listProgramming language LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®YesVes roorgam protection/password protectionYes• User program protection/password protectionYes; With S7 block Privacy• DimensionsYes; With S7 block PrivacyWidth40 mmHeight125 mmDepth130 mm	• STEP 7	Yes; V5.5 or higher	
• 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 Now-how protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	Programming		
• 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 Now-how protection Yes • User program protection/password protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm	Command set	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 Know-how protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	Nesting levels	8	
Programming language - LAD Yes - FBD Yes - STL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Know-how protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy Width 40 mm Height 125 mm Depth 130 mm	 System functions (SFC) 	see instruction list	
- LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®YesKnow-how protection• User program protection/password protection• Block encryptionYesOtimensionsWidth40 mmHeight125 mmDepth130 mm	 System function blocks (SFB) 	see instruction list	
- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®YesNow-how protection/password protectionYes• User program protection/password protectionYes• Block encryptionYes; With S7 block PrivacyDimensionsYes; With S7 block PrivacyWidth40 mmHeight125 mmDepth130 mm	Programming language		
- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®YesKnow-how protectionYes• User program protection/password protection • Block encryptionYesDimensionsYes; With S7 block PrivacyWidth40 mmHeight125 mmDepth130 mm	— LAD	Yes	
- SCL Yes - CFC Yes - 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	— FBD	Yes	
- CFC Yes - 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	— STL	Yes	
GRAPH Yes HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	— SCL	Yes	
— HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Width 40 mm Height 125 mm Depth 130 mm	— CFC	Yes	
Know-how protection • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 40 mm Height 125 mm Depth 130 mm	— GRAPH	Yes	
• User program protection/password protection • Block encryptionYes Yes; With S7 block PrivacyDimensions40 mmWidth40 mmHeight125 mmDepth130 mm	— HiGraph®	Yes	
Block encryption Yes; With S7 block Privacy Dimensions Vidth 40 mm 125 mm 125 mm 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	
Width 40 mm Height 125 mm Depth 130 mm	Dimensions		
Depth 130 mm Weights		40 mm	
Weights	Height	125 mm	
	Depth	130 mm	
Weight, approx. 340 g	Weights		
	Weight, approx.	340 g	

last modified: