SIEMENS

Data sheet

6ES7313-5BG04-0AB0



SIMATIC S7-300, CPU 313C, COMPACT CPU WITH MPI, 24 DI/16 DO, 4AI, 2AO 1 PT100, 3 FAST COUNTERS (30 KHZ), INTEGRATED 24V DC POWER SUPPLY, 128 KBYTE WORKING MEMORY, FRONT CONNECTOR (2 X 40PIN) AND MICRO MEMORY CARD REQUIRED

General information	
Hardware product version	01
Firmware version	V3.3
Engineering with	
 Programming package 	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203
Supply voltage	
Rated value (DC)	
• 24 V DC	Yes
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines	Miniature circuit breaker, type C; min. 2 A; miniature circuit
(recommendation)	breaker type B, min. 4 A
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
 Repeat rate, min. 	1 s
Digital inputs	
Load voltage L+	
— Rated value (DC)	24 V

— Reverse polarity protection	Yes
Digital outputs	
Load voltage L+	
— Rated value (DC)	24 V
— Reverse polarity protection	No
Input current	050 m A
Current consumption (rated value)	650 mA
Current consumption (in no-load operation), typ.	150 mA 5 A
Inrush current, typ. I²t	0.7 A ² ·s
	0.7 A-S
Digital inputs	80 mA
from load voltage L+ (without load), max.	60 MA
Digital outputs	50 mA
• from load voltage L+, max.	50 HIA
Power loss	
Power loss, typ.	12 W
Memory	
Work memory	
• integrated	128 kbyte
• expandable	No
 Size of retentive memory for retentive data 	64 kbyte
blocks	
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last 	10 y
programming), min.	
Backup	
• present	Yes; Guaranteed by MMC (maintenance-free)
• without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.07 μs
for word operations, typ.	0.15 μs
for fixed point arithmetic, typ.	0.2 μs
for floating point arithmetic, typ.	0.72 μs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks
	can be reduced by the MMC used.
DB	
• Number, max.	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte

FB	
 Number, max. 	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
• Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Description	see instruction list
• 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 startup OBs 	1; OB 100
 Number of asynchronous error OBs 	4; OB 80, 82, 85, 87
 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	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Туре	SFB
Number	Unlimited (limited only by RAM capacity)
S7 times	
• Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255

Time range- lower limit10 ms- upper limit990 sIEC time• presentYes• TypeSFB• NumberUnlimited (limited only by RAM capacity)Data areas and their retentivityretentive data area in totalAll, max, 64 KBFlag• Number, max.256 byte• Retentivity availableYes; MB 0 to MB 255• Retentivity presetMB 0 to MB 255• Retentivity presetMB 0 to MB 15• Number, max.1024; Number range; 1 to 16000• Size, max.64 kbyte• Retentivity presetYes; VB 0 to MB 255• Number of clock memories8; 1 memory byteData blocks	— preset	No retentivity
	Time range	
Description Process • present • present • present • SFB • Type SFB • Number Unlimited (limited only by RAM capacity) Data areas and their reletivity retentive data area in total Pland All, max. 64 KB Fiag • Number, max. • Number, max. 256 byte • Retentivity available Yes; MB 0 to MB 255 • Number, max. 1024; Number range: 1 to 16000 • Number, max. 1024; Number range: 1 to 16000 • Size, max. 1024; Number range: 1 to 16000 • Size, max. 1024; Number range: 1 to 16000 • Retentivity adjustable Yes; via non-retain property on DB • Retentivity adjustable Yes; via non-retain property on DB • Retentivity adjustable 1024 byte	— lower limit	10 ms
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retentive data area in total All, max. 64 KB Flag • Number, max. 266 byte • Retentivity available Yes; MB 0 to MB 255 • Retentivity preset MB 0 to MB 15 • Number of clock memories 8; 1 memory byte Data blocks • Number, max. 1 024; Number range: 1 to 16000 • Size, max. 64 kbyte • Retentivity adjustable Yes; via non-retain property on DB • Retentivity preset Yes Local data • per priority class, max. 32 kbyte; Max: 2048 bytes per block Address area I/O address area • Inputs 1 024 byte • Outputs 1 024 byte • Outputs none — Outputs none • Deforess: mage • Inputs 1 024 byte • Outputs 1 024 byte • Outputs, adjustable 1 024 byte • Outputs, adjustable 1 024 byte • Outputs, adjustable 1 024 byte • Outputs, default 1 28 byte <td< td=""><td>Number</td><td>Unlimited (limited only by RAM capacity)</td></td<>	Number	Unlimited (limited only by RAM capacity)
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• Number of clock memories 8; 1 memory byte Data blocks • • Number, max. 1 024; Number range: 1 to 16000 • Size, max. 64 kbyte • Retentivity adjustable Yes; via non-retain property on DB • Retentivity preset Yes Local data - • per priority class, max. 32 kbyte; Max. 2048 bytes per block Address area - I/O address area 1 024 byte • linputs 1 024 byte • Outputs 1 024 byte • Outputs none - Outputs none - Outputs none - Outputs 1 024 byte • Uputs 1 024 byte • Outputs none - Outputs none • Outputs 1 024 byte • Outputs 1 024 byte • Outputs 1 024 byte • Outputs, adjustable 1 024 byte • Outputs, default 1 024 byte • Inputs, default <td>Retentivity available</td> <td></td>	Retentivity available	
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— Digital inputs 124.0 to 126.7 — Digital outputs 124.0 to 125.7	• Outputs, default	128 byte
— Digital outputs 124.0 to 125.7	Default addresses of the integrated channels	
	— Digital inputs	
- Analog inputs 752 to 761	— Digital outputs	124.0 to 125.7
	— Analog inputs	752 to 761
- Analog outputs 752 to 755	— Analog outputs	752 to 755

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Digital channels	4.040
• Inputs	1 016
— of which central	1 016
Outputs	1 008
— of which central	1 008
Analog channels	
Inputs	253
— of which central	253
Outputs	250
— of which central	250
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	none
● via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	6
Rack	
• Racks, max.	4
 Modules per rack, max. 	8; In rack 3 max. 7
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	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
• Granularity	1 hour
retentive	Yes; Must be restarted at each restart
Clock synchronization	
• supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes

● in AS, master	Yes
● in AS, slave	No
Digital inputs	24
 Number of digital inputs of which inputs usable for technological 	12
functions	
integrated channels (DI)	24
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	24
— up to 60 °C, max.	12
vertical installation	
— up to 40 °C, max.	12
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
● for signal "1"	+15 to +30V
Input current	
● for signal "1", typ.	8 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.3 / 3 / 15 ms (You can reconfigure the input delay of the standard inputs during program runtime. Please note that under certain circumstances your newly set filter time may not be effective until the next filter cycle.)
— Rated value	3 ms
for counter/technological functions	
— at "0" to "1", max.	16 μs; Minimum pulse width/minimum pause between pulses at maximum counting frequency
Cable length	
 shielded, max. 	1 000 m; 100 m for technological functions
• unshielded, max.	600 m; For technological functions: No
for technological functions	
— shielded, max.	100 m; at maximum count frequency
— unshielded, max.	not allowed
Digital outputs	
Number of digital outputs	16
 of which high-speed outputs 	4; Notice: You cannot connect the fast outputs of your CPU in parallel
integrated channels (DO)	16

Short-circuit protection Response threshold, typ. Limitation of inductive shutdown voltage to Controlling a digital input Switching capacity of the outputs	Yes; Clocked electronically 1 A L+ (-48 V) Yes 5 W
Limitation of inductive shutdown voltage to Controlling a digital input	L+ (-48 V) Yes
Controlling a digital input	Yes
	5 W
	5 W
• on lamp load, max.	
Load resistance range	
lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 V)
Output current	
 for signal "1" rated value 	500 mA
 for signal "1" permissible range, min. 	5 mA
 for signal "1" permissible range, max. 	0.6 A
 for signal "1" minimum load current 	5 mA
 for signal "0" residual current, max. 	0.5 mA
Parallel switching of two outputs	0.5 mA
	No
for uprating	Yes
for redundant control of a load	
Switching frequency	400.11-
• with resistive load, max.	100 Hz
 with inductive load, max. 	0.5 Hz
• on lamp load, max.	100 Hz
• of the pulse outputs, with resistive load, max.	2.5 kHz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	3 A
— up to 60 °C, max.	2 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
 shielded, max. 	1 000 m
• unshielded, max.	600 m
Analog inputs	
Number of analog inputs	4
 For voltage/current measurement 	4
• For resistance/resistance thermometer	1
measurement	
integrated channels (AI)	5; 4 x current/voltage, 1 x resistance
permissible input voltage for current input (destruction limit), max.	5 V; Permanent

permissible input voltage for voltage input	30 V; Permanent
(destruction limit), max.	
permissible input current for voltage input (destruction limit), max.	0.5 mA; Permanent
permissible input current for current input (destruction limit), max.	50 mA; Permanent
Technical unit for temperature measurement adjustable	Yes; Degrees Celsius / degrees Fahrenheit / Kelvin
Input ranges	
Voltage	Yes; ±10 V / 100 kΩ; 0 V to 10 V / 100 kΩ
• Current	Yes; ±20 mA / 100 $\Omega;$ 0 mA to 20 mA / 100 $\Omega;$ 4 mA to 20 mA / 100 Ω
Resistance thermometer	Yes; Pt 100 / 10 MΩ
Resistance	Yes; 0 Ω to 600 Ω / 10 $M\Omega$
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
 Input resistance (0 to 10 V) 	100 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
 Input resistance (0 to 20 mA) 	100 Ω
• -20 mA to +20 mA	Yes
 Input resistance (-20 mA to +20 mA) 	100 Ω
• 4 mA to 20 mA	Yes
 Input resistance (4 mA to 20 mA) 	100 Ω
Input ranges (rated values), resistance thermometer	
• Pt 100	Yes
 Input resistance (Pt 100) 	10 MΩ
Input ranges (rated values), resistors	
 No-load voltage, typ. 	3.3 V
 Measuring current, typ. 	1,25 mA
• 0 to 600 ohms	Yes
 Input resistance (0 to 600 ohms) 	10 MΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	No
Characteristic linearization	
parameterizable	Yes; by software
— for resistance thermometer	Pt 100
Cable length	
 shielded, max. 	100 m
Analog outputs	
Number of analog outputs	2

integrated channels (AO)	2
Voltage output, short-circuit protection	- Yes
Voltage output, short-circuit current, max.	55 mA
Current output, no-load voltage, max.	14 V
Output ranges, voltage	
• 0 to 10 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
● -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
 for voltage output two-wire connection 	Yes; Without compensation of the line resistances
 for voltage output four-wire connection 	No
for current output two-wire connection	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	0.1 μF
 with current outputs, max. 	300 Ω
 with current outputs, inductive load, max. 	0.1 mH
Destruction limits against externally applied voltages an	
Voltages at the outputs towards MANA	16 V; Permanent
	50 mA; Permanent
• Current, max. Cable length	Jo ma, remanent
• shielded, max.	200 m
• Shielded, max.	200 11
Analog value generation for the inputs	
Measurement principle	Actual value encryption (successive approximation)
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
 Integration time, parameterizable 	Yes; 16.6 / 20 ms
 Interference voltage suppression for interference frequency f1 in Hz 	50 / 60 Hz
 permissible input frequency, max. 	400 Hz
Time constant of the input filter	0.38 ms
Basic execution time of the module (all	1 ms
channels released)	
Analog value generation for the outputs Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	12 bit
Conversion time (per channel)	1 ms

Settling time	
 for resistive load 	0.6 ms
 for capacitive load 	1 ms
 for inductive load 	0.5 ms

Encoder	
Connection of signal encoders	
 for voltage measurement 	Yes
 for current measurement as 2-wire transducer 	Yes; with external supply
 for current measurement as 4-wire transducer 	Yes
 for resistance measurement with two-wire connection 	Yes; Without compensation of the line resistances
 for resistance measurement with three-wire connection 	No
 for resistance measurement with four-wire connection 	No
Connectable encoders	
• 2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	1.5 mA
Errors/accuracies	
Temperature error (relative to input range), (+/-)	0.006 %/K
Crosstalk between the inputs, min.	60 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.06 %
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.1 %
Linearity error (relative to output range), (+/-)	0.15 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in steady state at 25 $^{\circ}$ C (relative to output range), (+/-)	0.06 %
Operational error limit in overall temperature range	
 Voltage, relative to input range, (+/-) 	1 %
 Current, relative to input range, (+/-) 	1 %
 Resistance, relative to input range, (+/-) 	1 %
 Voltage, relative to output range, (+/-) 	1 %
• Current, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to input range, (+/-) 	0.8 %; Linearity error +/- 0.06 %
• Current, relative to input range, (+/-)	0.8 %; Linearity error +/- 0.06 %
• Resistance, relative to input range, (+/-)	0.8 %; Linearity error +/- 0.2%
• Resistance thermometer, relative to input range, (+/-)	0.8 %

 Voltage, relative to output range, (+/) 0.8 % Interference voltage suppression for f = n x (f1 +/- 1%), f1 = interference frequency Series mode interference (peak value of interference, erated value of interference, erated value of interference, erated value of interference, min. Common mode interference, min. 40 dB Interfaces Number of RS 485 interfaces 1. MPI Number of RS 420: Interfaces 0 Interface Interface Vpe Integrated RS 485 interface Physics RS 485 Interface Physics RS 485 Interface Physics RS 485 Physics RS 485 Physics Physics RS 485 Physics Physics RS 485 Physics Physics RS 485 Physics 		0.0 %
Interference voltage suppression for 1 = n x (H + 1 3), f1 = interference frequency 30 dB • Sarias mode interference (peak value of interference mode interference, min. 30 dB • Common mode interference, min. 40 dB Interfaces 0 Number of RS 485 interfaces 1, MPI Number of RS 422 interfaces 0 1 interface 1 Interface 0 1 interfaces type Integrated RS 485 interface Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Eunctionality	 Voltage, relative to output range, (+/-) 	0.8 %
Series mode interference (peak value of interference, rinter value of input range), min. Common mode interference, min. 40 dB Interfaces Vamber of RS 485 interfaces 0 Number of RS 485 interfaces 0 Vamber of RS 485 interface Physics RS 485 Isolated No 200 mA Power supply to interface (15 to 30 V DC), max. 200 mA Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP master No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawe No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawe No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawe No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawe No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawe No Power supply to interface (15 to 30 V DC), max. Ves PROFIBUS DP lawer No POWER PROFIBUS DP lawer No POWER PROFIBUS DP lawer No Ves Services Ves Services Services Ves Services Services Ves Solut via CP and loadable FB Siz of communication Ves No Secondumunication Ves No Secondumunication Secondumunication Ves No Secondumunication Secondumunication Supported Ves No Secondumunication Supported Ves Number of GD packets, max. Secondumunication Size of GD packets, max. Secondumunication Size of GD packets, max.		
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• Common mode interference, min. 40 dB Interfaces 0 Number of RS 485 interfaces 1; MPI Number of RS 485 interfaces 0 1 Interface 0 1 Interface type Integrated RS 485 interface Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Functionality Ves • PROFIBUS DP master No • PROFIBUS DP slave No • PROFIBUS DP slave No • PROFIDUS DP slave No • PROFIDUS DP slave No • PROFOP communication Yes • CPC/OP communication Yes - S7 communication Yes - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes • S7 communication, as server Yes • S7 communication Yes - S7 communication Yes	-	30 dB
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Number of RS 485 interfaces 1; MPI Number of RS 422 interfaces 0 Interface Integrated RS 485 interface Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Functionality Ves • MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • Prof/OP communication Yes • Prof/OP communication Yes • Clobal data communication Yes • S7 communication Yes • S7 communication Yes • S7 communication, as client No: but via CP and loadable FB • S7 communication, as server Yes • Data record routing No • Supported Yes • Number of GD packets, transmitter, max. 8 • Number of GD packets, transmitter, max. 8 • Number of GD packets, transmitter, max. 8 <t< td=""><td>Interfaces</td><td></td></t<>	Interfaces	
Number of RS 422 interfaces Interface Interface type Integrated RS 485 interface Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Functionality • • MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • PROFIBUS Communication Yes • PG/OP communication Yes - Routing No - S7 communication Yes - S7 communication Yes - S7 communication, as client No; but via CP and loadable FB - S7 communication Yes - S7 communication Yes - S7 communication Yes Data record routing No Communication Yes Outpackets, max. 8	Number of industrial Ethernet interfaces	0
1. Interface Interface type Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. Punctionality MPI • PROFIBUS DP master • PROFIBUS DP master • PROFIBUS DP slave • Point-to-point connection MPI • Transmission rate, max. Services - PG/OP communication - Routing - Routing - Global data communication - S7 communication - S7 communication, as client - S7 communication, as server - S7 communication - S7 communication - S7 communication - S7 communication, as server - S7 communication, as server Yes - S7 communication - S7 communication Yes Data record routing Ocommunication - supported - supported - Number of GD loops, max. 8 - Number of GD packets, transmitter, max. <	Number of RS 485 interfaces	1; MPI
Interface type Integrated RS 485 interface Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Functionality MPI • MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • PROFIBUS DP slave No • PROFIBUS OP slave No • PROFIBUS OP slave No • PROFIBUS OP slave No • PROFIGUE Communication No - Routing No - Global data communication Yes - S7 communication Yes - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes Data record routing No Global data communication Yes • Supported Yes • Number of GD lops, max. 8 • Number of GD packets, max. 8 • Number of GD packets, max. 8 • Size of GD packets, max. 22 byte	Number of RS 422 interfaces	0
Physics RS 485 Isolated No Power supply to interface (15 to 30 V DC), max. 200 mA Functionality 200 mA • MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • PROFIBUS DP slave No • PROFIGUS DP master No • ProfOP communication max 187.5 kbit/s Services - - PG/OP communication Yes - S7 communication Yes - S7 communication Yes - S7 communication, as client No; but via CP and loadable FB - S7 communication Yes Data record routing No Global data communication Yes • Supported Yes • Number of GD packets, max. 8 • Number o	1. Interface	
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Power supply to interface (15 to 30 V DC), max. 200 mA Functionality Yes • PROFIBUS DP master No • PROFIBUS DP slave No • Point-to-point connection No MPI	Physics	RS 485
Functionality Yes • MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • Point-to-point connection No MPI - • Transmission rate, max. 187.5 kbit/s Services - - PG/OP communication Yes - Routing No - Global data communication Yes - S7 basic communication Yes - S7 communication Yes; Only server, configured on one side - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes Data record routing No Global data communication Yes - S7 communication Yes Data record routing No Global data communication Yes • Number of GD loops, max. 8 • Number of GD packets, max. 8 • Number of GD packets, receiver, max. 8 • Number of GD packets, max. 8 • Size of GD packets, max. 22 byte	Isolated	No
• MPI Yes • PROFIBUS DP master No • PROFIBUS DP slave No • Point-to-point connection No MPI Transmission rate, max. 187.5 kbit/s Services - - PG/OP communication Yes - Routing No - Global data communication Yes - S7 basic communication Yes - S7 communication Yes; Only server, configured on one side - S7 communication Yes; Only server, configured on one side - S7 communication Yes; Only server, configured on one side - S7 communication, as client No; but via CP and loadable FB - S7 communication Yes Data record routing No Global data communication Yes • 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, max. 8 • Size of GD packets, max. 22 byte	Power supply to interface (15 to 30 V DC), max.	200 mA
Image: Services No - PG/OP communication Yes - PG/OP communication Yes - Routing No - ST basic communication Yes - ST communication, as client No; but via CP and loadable FB - ST communication, as server Yes Data record routing No Supported Yes Number of GD loops, max. Number of GD packets, max.	Functionality	
• PROFIBUS DP slave No • PROFIBUS DP slave No • Point-to-point connection No MPI	• MPI	Yes
• Point-to-point connection No MPI	PROFIBUS DP master	No
MPI • Transmission rate, max. 187.5 kbit/s Services – PG/OP communication Yes – Routing No – 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 – S7 communication, as server Yes – S7 communication functions Yes PG/OP communication Yes Data record routing No Supported Yes Number of GD loops, max. 8	PROFIBUS DP slave	No
• Transmission rate, max. 187.5 kbit/s Services - - PG/OP communication Yes - Routing No - Global data communication Yes - S7 basic communication Yes - S7 communication Yes; Only server, configured on one side - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes - S7 communication functions Yes PG/OP communication Yes Data record routing No Global data communication Yes • 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	 Point-to-point connection 	No
Services Yes - PG/OP communication Yes - Routing No - Global data communication Yes - S7 basic communication Yes - S7 communication Yes; Only server, configured on one side - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes - S7 communication, as server Yes Data record routing No Obtal data communication Yes Data record routing No I supported Yes • Number of GD loops, max. 8 • Number of GD packets, max. 8 • Number of GD packets, receiver, max. 8 • Number of GD packets, receiver, max. 8 • Size of GD packets, max. 22 byte	MPI	
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Final of the second s	— PG/OP communication	Yes
- S7 basic communication Yes - S7 communication Yes; Only server, configured on one side - S7 communication, as client No; but via CP and loadable FB - S7 communication, as server Yes Output Yes Data record routing No Global data communication Yes • supported Yes • Number of GD loops, max. 8 • Number of GD packets, transmitter, max. 8 • Number of GD packets, receiver, max. 8 • Size of GD packets, max. 22 byte	— Routing	No
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S7 communication, as clientNo; but via CP and loadable FB S7 communication, as serverYesCommunication functionsPG/OP communicationYesData record routingNoGlobal data communicationYes• supportedYes• 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		Yes; Only server, configured on one side
S7 communication, as serverYesCommunication functionsYesPG/OP communicationYesData record routingNoGlobal data communicationYes• supportedYes• 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		
Communication functionsPG/OP communicationYesData record routingNoGlobal data communicationYes• supportedYes• Number of GD loops, max.8• Number of GD packets, max.8• Number of GD packets, transmitter, max.8• Number of GD packets, transmitter, max.8• Size of GD packets, max.8• Size of GD packets, max.8		
PG/OP communicationYesData record routingNoGlobal data communicationYes• supportedYes• Number of GD loops, max.8• Number of GD packets, 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	·	
Data record routingNoGlobal data communicationYes• supportedYes• Number of GD loops, max.8• Number of GD packets, max.8• Number of GD packets, transmitter, max.8• Number of GD packets, transmitter, max.8• Size of GD packets, max.22 byte		No.
Global data communication• supportedYes• Number of GD loops, max.8• Number of GD packets, max.8• Number of GD packets, transmitter, max.8• Number of GD packets, transmitter, max.8• Number of GD packets, receiver, max.8• Size of GD packets, max.22 byte		
• supportedYes• 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		NO
• 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		Vaa
 Number of GD packets, max. Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. 22 byte 		
 Number of GD packets, transmitter, max. Number of GD packets, receiver, max. Size of GD packets, max. 22 byte 	·	
 Number of GD packets, receiver, max. Size of GD packets, max. 22 byte 		
• Size of GD packets, max. 22 byte		
• Size of GD packet (of which consistent), max. 22 byte	 Size of GD packets, max. 	
	• 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	
supported	Yes
• as server	Yes
• as client	Yes; Via CP and loadable FB
• User data per job, max.	180 byte; With PUT/GET
 User data per job (of which consistent), max. 	240 byte; as server
S5 compatible communication	
• supported	Yes; via CP and loadable FC
Number of connections	
• overall	8
 usable for PG communication 	7
— reserved for PG communication	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	7
 usable for OP communication 	7
— reserved for OP communication	1
— adjustable for OP communication, min.	1
— adjustable for OP communication, max.	7
 usable for S7 basic communication 	4
— reserved for S7 basic communication	0
— adjustable for S7 basic communication,	0
min.	
— adjustable for S7 basic communication,	4
max.	
S7 message functions	
Number of login stations for message functions, max.	8; 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
	30

— of which status variables, max.	30
— of which control variables, max.	14
Forcing	
• Forcing	Yes
 Forcing, variables 	Inputs, outputs
 Number of variables, max. 	10
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
— can be set	Yes; From 10 to 499
— preset	10
Service data	
● can be read out	Yes
Interrupts/diagnostics/status information Diagnostics indication LED	
	Yes
Status indicator digital input (green)	Yes
Status indicator digital output (green)	Tes
Integrated Functions	
Number of counters	3; See "Technological Functions" manual
Counting frequency (counter) max.	30 kHz
Frequency measurement	Yes
Number of frequency meters	3; up to 30 kHz (see "Technological Functions" manual)
controlled positioning	
	No
integrated function blocks (closed-loop control)	Yes; PID controller (see "Technological Functions" manual)
integrated function blocks (closed-loop control) PID controller	Yes; PID controller (see "Technological Functions" manual) Yes
integrated function blocks (closed-loop control) PID controller Number of pulse outputs	Yes; PID controller (see "Technological Functions" manual)
integrated function blocks (closed-loop control) PID controller	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse)	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual)
integrated function blocks (closed-loop control) PID controller Number of pulse outputs	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual)
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual)
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual) 2.5 kHz
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual) 2.5 kHz
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs • Potential separation digital inputs	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual) 2.5 kHz Yes No
integrated function blocks (closed-loop control) PID controller Number of pulse outputs Limit frequency (pulse) Potential separation Potential separation digital inputs • Potential separation digital inputs • between the channels • between the channels and backplane bus	Yes; PID controller (see "Technological Functions" manual) Yes 3; Pulse width modulation up to 2.5 kHz (see "Technological Functions" Manual) 2.5 kHz

between the channels

• between the channels, in groups of

between the channels and backplane bus

Yes

Yes

8

• Potential separation analog inputs Yes: common for analog I/O • between the channels No • between the channels and backplane bus Yes Potential separation analog outputs Yes; common for analog I/O • between the channels and backplane bus Yes; common for analog I/O • between the channels and backplane bus Yes; common for analog I/O • between the channels and backplane bus Yes; Parmissible potential difference Edween the inputs and MANA (UM) Bodation 8 V DC Isolation tested with 600 V DC Ambient conditions Ambient conditions Ambient conditions 60 °C Configuration software Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Yes: STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming • • Command set see instruction list • No Step 7 Lite No Programming Isolakes (SFB) see instruction list • System function blocks (SFB) see instruction list • System function blocks (SFB) see instruction list • System function blocks (SFB) see instruction list • Still System function list • System function blocks (Potential separation analog inputs	
Determine the channels and backplane bus Yes Potential separation analog outputs Yes: common for analog I/O • Detween the channels No • between the channels and backplane bus Yes Potential ofference Eetween the channels Between the channels and backplane bus Yes Permissible potential difference Eetween the inputs and MANA (UCM) Solation 600 V DC Ambient conditions 600 V DC Ambient conditions 0 °C • min. 60 °C Configuration software 0 °C • stEP 7 higher with HSP 203 • STEP 7 Life No Programming See instruction list • Command set 8 • StEP 7 Life No • Command set 8 • System function blocks (SFB) see instruction list • No Yes - LAD Yes - STL Yes - STL Yes - SCL Yes - GRAPH Yes - GRAPH	 Potential separation analog inputs 	Yes; common for analog I/O
Potential separation analog outputs Yes: common for analog I/O • Potential separation analog outputs Yes: common for analog I/O • between the channels No • between the channels and backplane bus Yes Permissible potential difference Between the inputs and MANA (UCM) 8 V DC Isolation 600 V DC Ambient conditions Ambient conditions Ambient setsed with 60 °C Configuration software • rink. 0 °C • STEP 7 Lite No Programming command set • STEP 7 Lite Se instruction list • Command set see instruction list • System functions (SFC) see instruction list • System functions lobcks (SFE) ves • Socl Ves	• between the channels	No
• Potential separation analog outputs Yes; common for analog I/O • between the channels No • between the channels and backplane bus Yes Permissible potential difference Image: Common for analog I/O Between the inputs and MANA (UCM) & V DC Isolation 600 V DC Ambient conditions Image: Common for analog I/O Ambient conditions 0 °C Ambient conditions 0 °C Configuration 0 °C Configuration software Image: Common for analog I/O • STEP 7 Ves; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming Image: Command set • Configuration software See instruction list • Nesting levels 8 • System function blocks (SFC) see instruction list • Nesting levels 8 • System function blocks (SFB) see instruction list • Programming language	 between the channels and backplane bus 	Yes
• between the channels No • between the channels and backplane bus Yes Permissible potential difference Between the inputs and MANA (UCM) 8 V DC Isolation Isolation tested with 600 V DC Ambient conditions	Potential separation analog outputs	
between the channels and backplane bus Yes Permissible potential difference B V DC Between the inputs and MANA (UCM) B V DC Isolation 600 V DC Ambient conditions	 Potential separation analog outputs 	Yes; common for analog I/O
Permissible potential difference Between the inputs and MANA (UCM) 8 V DC Isolation 600 V DC Ambient conditions Ambient conditions Ambient conditions 0 °C Ambient conditions 600 °C Configuration 0 °C Configuration software Ves; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 No Programming see instruction list • Command set see instruction list • Nesting levels 8 • System functions (SFC) see instruction list • System functions (SFC) see instruction list • System function blocks (SFB) see instruction list Programming language - LAD - LAD Yes - SGL Yes - SCL Yes - SCL Yes - GRAPH Yes - HiGraphib Yes - Indicaphib Yes - Block encryption Yes - Block encryption Yes Vers Yes With S7	• between the channels	No
Between the inputs and MANA (UCM) 8 V DC Isolation Isolation tested with 600 V DC Ambient conditions Ambient temperature during operation • min. • max. 0 °C Configuration 0 °C Configuration software • Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming • Command set • Command set see instruction list • Nesting levels 8 • System function (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; With S7 block Privacy Dimensions Yei With 120 mm	 between the channels and backplane bus 	Yes
Between the inputs and MANA (UCM) 8 V DC Isolation Isolation tested with 600 V DC Ambient conditions Ambient temperature during operation • min. • max. 0 °C Configuration 0 °C Configuration software • Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming • Command set • Command set see instruction list • Nesting levels 8 • System function (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; With S7 block Privacy Dimensions Yei With 120 mm	Permissible potential difference	
Isolation tested with 600 V DC Ambient conditions Ambient temperature during operation • min. 0 °C • max. 60 °C Configuration 60 °C Configuration software 60 °C • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No 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 – GRAPH Yes – HiGraph® Yes Know-how protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy		8 V DC
Isolation tested with 600 V DC Ambient conditions Ambient temperature during operation • min. 0 °C • max. 60 °C Configuration 60 °C Configuration software 60 °C • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No 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 – GRAPH Yes – HiGraph® Yes Know-how protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy	loolation	
Ambient conditions Ambient temperature during operation • min. 0 °C • max. 60 °C Configuration software Configuration software • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming see instruction list • 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 Second - STL Yes - SCL Yes - GRAPH Yes - HiGraph® Yes Wes Yes - HiGraph® Yes - Block encryption Yes, With S7 block Privacy		600 V DC
Ambient temperature during operation 0 °C • max. 60 °C Configuration software • STEP 7 • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No Programming • See instruction list • 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 — STL Yes — SCL Yes — SCL Yes — GRAPH Yes — HiGraph® Yes Ves Yes Width 120 mm		
• min.0 °C• max.60 °CConfiguration software• STEP 7Yes: STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203• STEP 7 LiteNoProgramming• Command setsee instruction list• Nesting levels8• System functions (SFC)see instruction list• System function blocks (SFB)see instruction listProgramming Image- LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph⊚YesKnow-how protectionYes• Block encryptionYesWidth120 mm		
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Configuration Configuration software Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No 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 Ves Yes Mow-how protection/password protection Yes Block encryption Yes Dimensions Yes With S7 block Privacy	• min.	
Configuration software • STEP 7 Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203 • STEP 7 Lite No 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 - GRAPH Yes - HiGraph® Yes Wes - GRAPH • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions Width 120 mm	● max.	60 °C
• STEP 7Yes; STEP 7 V5.5 + SP1 or higher or STEP 7 V5.3 + SP2 or higher with HSP 203• STEP 7 LiteNoProgramming• Command setsee instruction list• Nesting levels8• System functions (SFC)see instruction list• System function blocks (SFB)see instruction list• System function blocks (SFB)see instruction list• Programming languageYes- LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®Yes• User program protection/password protectionYes• Block encryptionYes; With S7 block PrivacyDimensionsYedthWidth120 mm	Configuration	
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• Command setsee instruction list• Nesting levels8• System functions (SFC)see instruction list• System function blocks (SFB)see instruction list• Programming language LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®Yes• User program protection/password protectionYes• Block encryptionYes; With S7 block PrivacyDimensions120 mm	STEP 7 Lite	No
• 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 Ves Yes - StL Yes - SCL Yes - SCL Yes - GRAPH Yes - HiGraph® Yes - Block encryption Yes Vidth 120 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 Ves Yes - SRL Yes - SCL Yes - SRAPH Yes - HiGraph® Yes Width Yes	Command set	see instruction list
System function blocks (SFB) see instruction list Programming language — LAD Yes — FBD Yes — STL Yes — SCL Yes — SCL Yes — CFC Yes — GRAPH Yes — HiGraph® Yes — HiGraph® Yes — SCL — SCL Yes — SCL	Nesting levels	8
Programming language Yes - LAD Yes - FBD Yes - STL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Ves Yes Programming protection/password protection Yes Width 120 mm	 System functions (SFC) 	see instruction list
- LADYes- FBDYes- STLYes- SCLYes- CFCYes- GRAPHYes- HiGraph®YesVesYesDimensionsYes; With S7 block PrivacyWidth120 mm	 System function blocks (SFB) 	see instruction list
FBDYes STLYes SCLYes CFCYes GRAPHYes HiGraph®YesVesYes HiGraph®Yes Block encryptionYes; With S7 block PrivacyDimensionsYes; With S7 block Privacy	Programming language	
- STL Yes - SCL Yes - CFC Yes - GRAPH Yes - HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy	— LAD	Yes
- SCLYes- CFCYes- GRAPHYes- HiGraph®YesKnow-how protectionYes• User program protection/password protectionYes• Block encryptionYes; With S7 block PrivacyDimensionsYes; With S7 block Privacy	— FBD	Yes
- CFC Yes - GRAPH Yes - HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes; With S7 block Privacy Dimensions Yes; With S7 block Privacy	— STL	Yes
- GRAPH Yes - HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions Yes Width 120 mm	— SCL	Yes
HiGraph® Yes Know-how protection Yes • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions Yes Width 120 mm	— CFC	Yes
Know-how protection Yes • User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 120 mm	— GRAPH	Yes
• User program protection/password protection Yes • Block encryption Yes; With S7 block Privacy Dimensions 120 mm	— HiGraph®	Yes
Block encryption Yes; With S7 block Privacy Dimensions Width 120 mm	Know-how protection	
Dimensions Width	 User program protection/password protection 	Yes
Width 120 mm	 Block encryption 	Yes; With S7 block Privacy
Width 120 mm	Dimensions	
Height 125 mm		120 mm
	Height	125 mm

Depth	130 mm
Weights	
Weight, approx.	660 g
last modified:	03/24/2017