SIEMENS

Data sheet

6AG1312-5BF04-7AB0



SIPLUS S7-300 CPU 312C based on 6ES7312-5BF04-0AB0 with conformal coating, -25...+70 °C, compact CPU with MPI, 10 DI/6 DQ, 2 high-speed counters (10 kHz) integrated power supply 24 V DC, work memory 64 KB, front connector (1x 40-pole) and Micro Memory Card required

Figure similar

General information 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
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	Miniature circuit breaker, type C; min. 2 A; miniature circuit breaker type B, min. 4 A
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1 s
Load voltage L+	
Digital outputs	
— Rated value (DC)	24 V
 Reverse polarity protection 	No
Input current	
Current consumption (rated value)	570 mA
Current consumption (in no-load operation), typ.	90 mA
Inrush current, typ.	5 A
l²t	0.7 A ² ·s
Digital outputs	
 from load voltage L+, max. 	25 mA
Power loss	
Power loss, typ.	8 W
Memory	
Work memory	
 integrated 	64 kbyte
expandable	No
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.	0.1 µs
for word operations, typ.	 0.24 μs
for fixed point arithmetic, typ.	 0.32 μs
for floating point arithmetic, typ.	1.1 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	
• Number, max.	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	40
• per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	050
Number	256
Retentivity	Vee
— adjustable — lower limit	Yes
— upper limit	0 255
— upper innit — preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
present	Yes
• Type	SFB
• Type • Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)

Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	64 kbyte
Flag	
• Size, max.	256 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	
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	oz koyto, max. 2010 bytos per biotik
I/O address area	
	1.024 bits
Inputs	1 024 byte
Outputs furthish distributed	1 024 byte
of which distributed	
— Inputs	none
— Outputs	none
Process image	1.024 bits
Inputs	1 024 byte
Outputs	1 024 byte
Inputs, adjustable	1 024 byte
Outputs, adjustable	1 024 byte
Inputs, default	128 byte
Outputs, default	128 byte
Default addresses of the integrated channels	
— Digital inputs	124.0 to 125.1
— Digital outputs	124.0 to 124.5
Digital channels	
Inputs	266
— of which central	266
Outputs	262
— of which central	262
Analog channels	
Inputs	64
— of which central	64
Outputs	64
— of which central	64
Hardware configuration	
Number of expansion units, max.	0
Number of DP masters	
 integrated 	none
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	4
Rack	
Racks, max.	1
 Modules per rack, max. 	8
Time of day	
Clock	
Software clock	Yes
 retentive and synchronizable 	No; Buffered: No, Can be synchronized: Yes
 Deviation per day, max. 	10 s; Typ.: 2 s
Behavior of the clock following POWER-ON	the clock continues at the time of day it had when power was switched off
Operating hours counter	
• Number	1

Number/Number range	0
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
• in AS, master	Yes
• in AS, slave	No
Digital inputs	
Number of digital inputs	10
 of which inputs usable for technological functions 	8
integrated channels (DI)	10
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	10
— up to 60 °C, max.	5; up to 70 °C
vertical installation	
— up to 40 °C, max.	5
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+15 to +30 V
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 technological functions	
— at "0" to "1", max.	48 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	6
 of which high-speed outputs 	2; Notice: You cannot connect the fast outputs of your CPU in parallel
integrated channels (DO)	6
Short-circuit protection	Yes; Clocked electronically
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
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

	F == A
• 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	
 for uprating 	No
 for redundant control of a load 	Yes
Switching frequency	
 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.	2 A
— up to 60 °C, max.	1.5 A; up to 70 °C
vertical installation	
— up to 40 °C, max.	1.5 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Analog inputs	
Number of analog inputs	0
integrated channels (AI)	0
	0
Analog outputs	
Number of analog outputs	0
integrated channels (AO)	0
Encoder	
Connectable encoders	
 2-wire sensor 	Yes
	100
- permissible quiescent current (2-wire sensor),	1.5 mA
 — permissible quiescent current (2-wire sensor), max. 	
- permissible quiescent current (2-wire sensor),	
 — permissible quiescent current (2-wire sensor), max. 	
— permissible quiescent current (2-wire sensor), max. Interfaces	1.5 mA
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces 	1.5 mA 0
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces 	1.5 mA 0 0
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces 	1.5 mA 0 0 1; MPI
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces 1. Interface 	1.5 mA 0 0 1; MPI 0
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces 	1.5 mA 0 0 1; MPI
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max.	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI Transmission rate, max. 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave • Point-to-point connection MPI • Transmission rate, max. Services	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave • Point-to-point connection MPI • Transmission rate, max. Services — PG/OP communication	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No No No Yes 187.5 kbit/s
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave • Point-to-point connection MPI • Transmission rate, max. Services — PG/OP communication — Routing	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
— permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave • Point-to-point connection MPI • Transmission rate, max. Services — PG/OP communication — Routing — Global data communication	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI Transmission rate, max. Services Global data communication Routing Global data communication S7 basic communication 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI Transmission rate, max. Services Global data communication S7 basic communication S7 communication 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No Yes No Yes Yes </td
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI Transmission rate, max. Services Global data communication S7 basic communication S7 communication, as client 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No Yes
 permissible quiescent current (2-wire sensor), max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave Point-to-point connection MPI Transmission rate, max. Services Global data communication S7 basic communication S7 communication 	1.5 mA 0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No Yes No Yes Yes </td

PROFIsafe	No
communication functions / header	
PG/OP communication	Yes
Data record routing	No
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	
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	6
 usable for PG communication 	5
 reserved for PG communication 	1
 — adjustable for PG communication, min. 	1
— adjustable for PG communication, max.	5
 usable for OP communication 	5
- reserved for OP communication	1
- adjustable for OP communication, min.	1
 — adjustable for OP communication, max. 	5
 usable for S7 basic communication 	2
 reserved for S7 basic communication 	0
— adjustable for S7 basic communication, min.	0
 adjustable for S7 basic communication, max. 	2
S7 message functions	
Number of login stations for message functions, max.	6; 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	Vec
Forcing Forcing	Yes
Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer • present	Yes
- pieseni	100

 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
Interrupts/diagnostics/status information	
Diagnostics indication LED	
 Status indicator digital input (green) 	Yes
 Status indicator digital output (green) 	Yes
Integrated Functions	
Counter	
Number of counters	2; See "Technological Functions" manual
Counting frequency, max.	10 kHz
Frequency measurement	Yes
Number of frequency meters	2; up to 10 kHz (see "Technological Functions" manual)
controlled positioning	No
integrated function blocks (closed-loop control)	No
PID controller	No
Number of pulse outputs	2; Pulse width modulation up to 2.5 kHz (see "Technological Functions"
Number of pulse outputs	Manual)
Limit frequency (pulse)	2.5 kHz
Potential separation	
Potential separation digital inputs	
Potential separation digital inputs	Yes
between the channels	No
 between the channels and backplane bus 	Yes
	105
Potential separation digital outputs	Yes
 Potential separation digital outputs between the channels 	
	No
between the channels and backplane bus	Yes
Isolation	
Isolation tested with	600 V DC
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
• ATEX	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
 Ambient air temperature-barometric pressure- 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under 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 to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 — to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. 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/ISA- 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 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
configuration / header	
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
configuration / programming / header	
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
Know-how protection	
User program protection/password protection	Yes
Block encryption	Yes; With S7 block Privacy
Dimensions	
Width	80 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	410 g

last modified:

2/6/2022 🖸