## **Data sheet**

6ES7313-6BG04-0AB0



SIMATIC S7-300, CPU 313C-2 PTP Compact CPU with MPI, 16 DI/16 DO, 3 high-speed counters (30 kHz), integrated interface RS485, Integr. power supply 24 V DC, work memory 128 KB, Front connector (1x 40-pole) and Micro Memory Card required

General information	
Product type designation	CPU 313C-2 PtP
HW functional status	01
Firmware version	V3.3
Engineering with	
Programming package	STEP 7 as of V5.5 + SP1 or STEP 7 V5.3 + SP2 or higher with HSP 204
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 inputs	
— load voltage / at digital input / at DC / rated value	24 V
— Reverse polarity protection	Yes
Digital outputs	
— Rated value (DC)	24 V
<ul> <li>Reverse polarity protection</li> </ul>	No
Input current	
Current consumption (rated value)	580 mA
Current consumption (in no-load operation), typ.	110 mA
Inrush current, typ.	5 A
I²t	0.7 A²-s
Digital inputs	
from load voltage L+ (without load), max.	80 mA
Digital outputs	
from load voltage L+, max.	50 mA
Power loss	
Power loss, typ.	9 W
Memory	
Work memory	
integrated	128 kbyte
expandable	No
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte

<ul> <li>Data management on MMC (after last programming), min.</li> </ul>	10 a
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	
<ul> <li>Number, max.</li> </ul>	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	
<ul><li>Number, max.</li></ul>	see instruction list
• Size, max.	64 kbyte
<ul> <li>Number of free cycle OBs</li> </ul>	1; OB 1
<ul> <li>Number of time alarm OBs</li> </ul>	1; OB 10
<ul> <li>Number of delay alarm OBs</li> </ul>	2; OB 20, 21
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	4; OB 32, 33, 34, 35
<ul> <li>Number of process alarm OBs</li> </ul>	1; OB 40
<ul> <li>Number of startup OBs</li> </ul>	1; OB 100
<ul> <li>Number of asynchronous error OBs</li> </ul>	4; OB 80, 82, 85, 87
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	
<ul> <li>per priority class</li> </ul>	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	W
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	Von
• present	Yes
<ul><li>Type</li><li>Number</li></ul>	SFB Linlimited (limited only by PAM capacity)
Number  S7 times	Unlimited (limited only by RAM capacity)
Number	256
Retentivity	200
— adjustable	Yes
— adjustable — preset	No retentivity
— preset Time range	110 Totoliuvity
— lower limit	10 ms
— lower limit — upper limit	9 990 s
— upper limit	3 300 3
• present	Yes
• Type	SFB
÷ 13pc	<b></b>

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	
Data blocks	8; 1 memory byte
	Vegavia non ratain property on DR
Retentivity adjustable	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	0011 1 M 00401 1 1 1
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
of which distributed	
— Inputs	none
— Outputs	none
Process image	
• 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 125.7
— Digital outputs	124.0 to 125.7
Digital channels	121.0 (0 120.1
• Inputs	1 008
— of which central	1 008
Outputs	1 008
— of which central	1 008
	1 006
Analog channels	240
• Inputs	248
— of which central	248
Outputs	248
— of which central	248
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
	Yes
retentive and synchronizable	
- De alcum times	
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	6 wk; At 40 °C ambient temperature 10 s; Typ.: 2 s
·	6 wk; At 40 °C ambient temperature

On crating bours count	
Operating hours counter	,
Number	1
Number/Number range	0
Range of values	0 to 2^31 hours (when using SFC 101)
Granularity	1h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	v.
• supported	Yes
• to MPI, master	Yes
• on MPI, device	Yes
• in AS, master	Yes
• in AS, device	No
Digital inputs	
Number of digital inputs	16
of which inputs usable for technological functions	12
integrated channels (DI)	16
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	16
— up to 60 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
<ul><li>Rated value (DC)</li></ul>	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.	16 μs; Minimum pulse width/minimum pause between pulses at maximum
	counting frequency
Cable length	
<ul><li>shielded, max.</li></ul>	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	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	
	500 mA
<del>J</del>	

<ul><li>for signal "1" permissible range, min.</li></ul>	5 mA
<ul><li>for signal "1" permissible range, max.</li></ul>	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	
<ul> <li>with resistive load, max.</li> </ul>	100 Hz
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz
● on lamp load, max.	100 Hz
<ul> <li>of the pulse outputs, with resistive load, max.</li> </ul>	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	0
integrated channels (AI)	0
Analog outputs	
integrated channels (AO)	0
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interfaces	
Number of PROFINET interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	1; RS 422 / 485 combined
Point-to-point connection	,
Cable length, max.	1 200 m
Integrated protocol driver	1 200 III
— 3964 (R)	Yes
— ASCII	Yes
— RK 512	No
Transmission rate, RS 422/485	
— with 3964 (R) protocol, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
— with ASCII protocol, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
— with ASCII protocol, max.  1. Interface	10.2 kbivo, 00.4 kbivo Hali dupiex, 10.2 kbivo Iuli dupiex
	Integrated DS 405 interface
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
	200 mA
Output current of the interface, max.  Protocols	200 mA
Protocols	
Protocols  • MPI	Yes
Protocols  • MPI  • PROFIBUS DP master	Yes No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device	Yes No No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection	Yes No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI	Yes No No No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI  • Transmission rate, max.	Yes No No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI  • Transmission rate, max.  Services	Yes No No No 187.5 kbit/s
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI  • Transmission rate, max.  Services  — PG/OP communication	Yes No No No 187.5 kbit/s Yes
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI  • Transmission rate, max.  Services  — PG/OP communication  — Routing	Yes No No No 187.5 kbit/s  Yes No
Protocols  • MPI  • PROFIBUS DP master  • PROFIBUS DP device  • Point-to-point connection  MPI  • Transmission rate, max.  Services  — PG/OP communication	Yes No No No 187.5 kbit/s Yes

— S7 communication	Yes; Only server, configured on one side
— S7 communication  — S7 communication, as client	No: but via CP and loadable FB
— S7 communication, as citent  — S7 communication, as server	Yes
2. Interface	100
Interface type	Integrated RS 422/ 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes; RS 422 / 485 (X.27)
Output current of the interface, max.	No
Protocols	
• MPI	No
PROFINET IO Controller	No
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	No
PROFIBUS DP device	No
Point-to-point connection	
Transmission rate, max.	19.2 kbit/s; 38.4 kbit/s half duplex; 19.2 kbit/s full duplex
Interface controllable from the user program	Yes
Interface controllable from the door program     Interface can trigger alarm/interrupt in the user program	Yes; Message on break - identification
Protocols	. 50,300ago on broak hadranoundri
PROFIsafe	No
communication functions / header	NO
PG/OP communication	Yes
Data record routing	No
Global data communication	110
	Yes
<ul><li>supported</li><li>Number of GD loops, max.</li></ul>	8
·	
Number of GD packets, max.      Number of GD packets transmitter max.	8
Number of GD packets, transmitter, max.     Number of GD packets, receiver, max.	8
Number of GD packets, receiver, max.     Size of GD packets, max.	8 22 hyte
Size of GD packets, max.  Size of GD packet (of which consistent), max.	22 byte
Size of GD packet (of which consistent), max.  S7 basis communication.	22 byte
S7 basic communication	Voc. Sonior
Supported      User data per job, max	Yes; Server
User data per job, max.      User data per job (of which consistent) max.	76 byte: 77 byte: 78
<ul> <li>User data per job (of which consistent), max.</li> </ul>	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, min.	0
adjustable for S7 basic communication, min.  — adjustable for S7 basic communication, max.	4
· .	7
S7 message functions	

Process diagnostic messages simultaneously active Alarm-S blocks, max.  Test commissioning functions  Status block Single step Yes Number of breakpoints 4  Status/control  • Status/control  • Status/control  • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.  14  Forcing • Forcing • Forcing, variables, max. • Number of variables, max.  • Number of variables, max.  10  Diagnostic buffer  • present • Number of entries, max. — adjustable — of which powerfail-proof • Number of entries readable in RUN, max.	
simultaneously active Alarm-S blocks, max.  Test commissioning functions  Status block Single step Yes Number of breakpoints 4  Status/control  • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.  14  Forcing • Forcing • Forcing, variables, max. • Number of variables, max.  10  Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof  300  Yes Inputs, outputs, memory bits, DB, times, counters 30 30 30 30 30 30 30 30 30 30 30 30 30	
Status block Single step Yes Number of breakpoints  • Status/control • Status/control variable • Variables • Number of variables, max. — of which control variables, max.  • Forcing • Forcing • Forcing, variables, max. • Number of variables, max.  • Number of variables, max.  — of which control variables, max.  14  Forcing • Forcing • Forcing • Forcing or Forcing, variables, max. • Number of variables, max.  • Number of variables, max.  • Number of variables, max.  • Number of variables, max.  • Number of variables, max.  • Number of variables, max.  • Number of entries, max.  • Number of entries, max.  • Outputs outputs • Number of variables • Number of entries, max.  • Outputs outputs • Number of variables • Number of entries, max.  • Outputs outputs • Outputs outpu	
Status block Single step Yes Number of breakpoints 4 Status/control  • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.  14 Forcing • Forcing • Forcing, variables • Number of variables, max.  10 Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof  Yes  100; Only the last 100 entries are retained	
Single step  Number of breakpoints  4  Status/control  Status/control variable  Variables  Number of variables, max.  of which status variables, max.  of which control variables, max.  Forcing  Forcing  Forcing, variables  Number of variables, max.  Inputs, outputs, memory bits, DB, times, counters  30  4  Forcing  Forcing  Forcing  Forcing  Forcing  Forcing  Forcing, variables  Number of variables, max.  10  Diagnostic buffer  Present  Number of entries, max.  adjustable  of which powerfail-proof  100; Only the last 100 entries are retained	
Number of breakpoints  Status/control  Status/control variable  Variables  Number of variables, max.  of which status variables, max.  of which control variables, max.  Inputs, outputs, memory bits, DB, times, counters  Number of variables, max.  of which control variables, max.  Forcing  Forcing  Forcing  Forcing, variables  Number of variables, max.  Diagnostic buffer  present  Number of entries, max.  adjustable  of which powerfail-proof  100; Only the last 100 entries are retained	
Status/control  Status/control variable  Variables  Number of variables, max.  of which status variables, max.  of which control variables, max.  Forcing  Forcing  Forcing, variables  Number of variables, max.  Number of entries, max.  Additional variables  No  No  adjustable  of which powerfail-proof  Yes  No  100; Only the last 100 entries are retained	
<ul> <li>Status/control variable</li> <li>Variables</li> <li>Number of variables, max.</li> <li>of which status variables, max.</li> <li>of which control variables, max.</li> <li>of which control variables, max.</li> <li>Forcing</li> <li>Forcing, variables</li> <li>Number of variables, max.</li> <li>Diagnostic buffer</li> <li>present</li> <li>Number of entries, max.</li> <li>Number of entries, max.</li> <li>Augustable</li> <li>No</li> <li>adjustable</li> <li>of which powerfail-proof</li> <li>Inputs, outputs</li> <li>Yes</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
<ul> <li>Variables</li> <li>Number of variables, max.</li> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>— of which control variables, max.</li> <li>14</li> <li>Forcing</li> <li>Forcing, variables</li> <li>Number of variables, max.</li> <li>Diagnostic buffer</li> <li>Present</li> <li< td=""><td></td></li<></ul>	
<ul> <li>Number of variables, max. <ul> <li>of which status variables, max.</li> <li>of which control variables, max.</li> </ul> </li> <li>Forcing <ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer <ul> <li>present</li> <li>Number of entries, max.</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul> </li> </ul>	
<ul> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> <li>Forcing</li> <li>• Forcing</li> <li>• Forcing, variables</li> <li>• Number of variables, max.</li> <li>Diagnostic buffer</li> <li>• present</li> <li>• Number of entries, max.</li> <li>• Number of entries, max.</li> <li>- adjustable</li> <li>— of which powerfail-proof</li> <li>30</li> <li>14</li> <li>Yes</li> <li>Inputs, outputs</li> <li>10</li> <li>Diagnostic buffer</li> <li>• present</li> <li>• present</li> <li>• No</li> <li>— adjustable</li> <li>— of which powerfail-proof</li> <li>100; Only the last 100 entries are retained</li> </ul>	
<ul> <li>— of which control variables, max.</li> <li>Forcing <ul> <li>Forcing</li> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul> </li> <li>Diagnostic buffer <ul> <li>present</li> <li>Number of entries, max.</li> <li>Number of entries, max.</li> <li>Augustable</li> <li>pof which powerfail-proof</li> <li>14</li> </ul> </li> <li>14</li> <li>Yes</li> <li>Nuputs, outputs</li> <li>10</li> <li>Yes</li> <li>No</li> <li>Augustable</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
Forcing  • Forcing  • Forcing, variables  • Number of variables, max.  Diagnostic buffer  • present  • Number of entries, max.  • Number of entries, max.  — adjustable — of which powerfail-proof  Yes  No  100; Only the last 100 entries are retained	
Forcing Forcing, variables Forcing, variables Inputs, outputs Inputs, outputs  Number of variables, max.  Diagnostic buffer  present Present Number of entries, max.  adjustable Of which powerfail-proof  Yes  No  100  No  100; Only the last 100 entries are retained	
<ul> <li>Forcing, variables</li> <li>Number of variables, max.</li> <li>Diagnostic buffer</li> <li>present</li> <li>Number of entries, max.</li> <li>Adjustable</li> <li>of which powerfail-proof</li> <li>Inputs, outputs</li> <li>10</li> <li>No</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
<ul> <li>Number of variables, max.</li> <li>Diagnostic buffer</li> <li>present</li> <li>Number of entries, max.</li> <li>adjustable</li> <li>of which powerfail-proof</li> <li>No</li> <li>100</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
Diagnostic buffer  ● present  ● Number of entries, max.  — adjustable  — of which powerfail-proof  Diagnostic buffer  Yes  500  No  100; Only the last 100 entries are retained	
<ul> <li>present</li> <li>Number of entries, max.</li> <li>— adjustable</li> <li>— of which powerfail-proof</li> <li>Yes</li> <li>500</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
<ul> <li>Number of entries, max.</li> <li>— adjustable</li> <li>— of which powerfail-proof</li> <li>100; Only the last 100 entries are retained</li> </ul>	
<ul> <li>— adjustable</li> <li>— of which powerfail-proof</li> <li>No</li> <li>100; Only the last 100 entries are retained</li> </ul>	
— of which powerfail-proof 100; Only the last 100 entries are retained	
Number of entries readable in RTIN may	
Trainbot of Charles readable in Nors, max.	
— adjustable Yes; From 10 to 499	
— preset 10	
Service data	
• can be read out	
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     3; See "Technological Functions" manual	
• Counting frequency, 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 control of the con	ual)
PID controller Yes	
Number of pulse outputs  3; Pulse width modulation up to 2.5 kHz (see "Technolog Manual)	gical Functions"
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	
Potential separation digital outputs	
Potential separation digital outputs     Yes	
• between the channels Yes	
• between the channels, in groups of 8	
• between the channels and backplane bus  Yes	
Isolation	
Isolation tested with 600 V DC	
Ambient conditions	
Ambient temperature during operation	
• min. 0 °C	
• max. 60 °C	

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	
<ul> <li>Command set</li> </ul>	see instruction list
<ul> <li>Nesting levels</li> </ul>	8
<ul> <li>System functions (SFC)</li> </ul>	see instruction list
<ul> <li>System function blocks (SFB)</li> </ul>	see instruction list
Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes
— HiGraph®	Yes
Know-how protection	
<ul> <li>User program protection/password protection</li> </ul>	Yes
<ul> <li>Block encryption</li> </ul>	Yes; With S7 block Privacy
Dimensions	
Width	80 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	500 g

last modified:

4/25/2024