SIEMENS

Data sheet

6AG1312-5BF04-2AY0



spare part SIPLUS S7-300 CPU 312C based on 6ES7312-5BF04-0AB0 with conformal coating, -25...+60 °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

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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; A power supply according to EN 50155 shall be used
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	100
 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	1024 5910
— 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, defaultOutputs, default	128 byte 128 byte
	120 Dyte
Default addresses of the integrated channels	124.0 to 125.1
— Digital inputs	
— Digital outputs	124.0 to 124.5
Digital channels	200
Inputs	266
— of which central	266
Outputs	262
— of which central	262
Analog channels	24
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
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
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• 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
vertical installation	
— up to 40 °C, max.	1.5 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
	000 m
Analog inputs	
Number of analog inputs	0
integrated channels (AI)	0
Analog outputs	
Number of analog outputs	0
integrated channels (AO)	0
Encoder	
Connectable encoders	
2-wire sensor	Yes
— permissible guiescent current (2-wire sensor),	1.5 mA
 — permissible quiescent current (2-wire sensor), max. 	1.5 mA
	1.5 mA
max.	1.5 mA 0
max. Interfaces	
max. Interfaces Number of industrial Ethernet interfaces	0 0
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces	0 0 1; MPI
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces	0 0
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces 1. Interface	0 0 1; MPI 0
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces I. Interface Interface type	0 0 1; MPI 0 Integrated RS 485 interface
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces I. Interface Interface type Isolated	0 0 1; MPI 0
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces I. Interface Interface Interface type Isolated Interface types	0 0 1; MPI 0 Integrated RS 485 interface No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces I. Interface Interface type Isolated Interface types • RS 485	0 0 1; MPI 0 Integrated RS 485 interface No Yes
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max.	0 0 1; MPI 0 Integrated RS 485 interface No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface 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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface Interface Interface type Isolated Interface types	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface 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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No
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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No
max. Interfaces Number of industrial Ethernet interfaces Number of PROFINET interfaces Number of RS 485 interfaces Number of RS 422 interfaces Interface 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.	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No
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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No 187.5 kbit/s
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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No No No Yes No Yes No Yes No Yes No Yes No Yes No Yes No Yes No
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	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No No No No No No
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 - Global data communication	0 0 0 1; MPI 0 0 Integrated RS 485 interface No No Yes 200 mA Yes No No No No No Yes No No No Yes Yes
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 - S7 basic communication - S7 communication	0 0 0 1; MPI 0 0 Integrated RS 485 interface No 0 Yes 200 mA Yes 0 187.5 kbit/s 187.5 kbit/s Yes 0
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 - S7 basic communication - S7 communication - S7 communication	0 0 1; MPI 0 Integrated RS 485 interface No Yes 200 mA Yes No No No No No No No Yes Yes No No No No No No No No No No
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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

	500
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"
	Manual)
Limit frequency (pulse)	2.5 kHz
Potential separation	
Potential separation digital inputs	X
Potential separation digital inputs	Yes
between the channels	No
between the channels and backplane bus	Yes
Potential separation digital outputs	N
Potential separation digital outputs	Yes
between the channels	No
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	500V AC for 1 minute
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	No
Railway application	
• EN 50155	Yes; Sections 4, 5 and 12; no further agreements apply; T1, Category 1, Class A/B, EN 50155:2007
Ambient conditions	
Ambient conditions Ambient temperature during operation	
min.	-25 °C; = Tmin
• max.	60 °C; = Tmax; the rated temperature range of -25 +55 °C (T1)
- max.	applies for the use on railway vehicles according to EN50155
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	
Relative numbers	

Resistance Use in stationary industrial systems	condensation conditions)
 — 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 land craft, rail vehicles and special-purpose vehi	icles
 — to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request
 — to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); *
 — to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *
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!
onfiguration / 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
	Yes
— FBD	
	Yes
— FBD	Yes Yes
— FBD — STL	
— FBD — STL — SCL	Yes
— FBD — STL — SCL — GRAPH — HiGraph®	Yes Yes
— FBD — STL — SCL — GRAPH — HiGraph®	Yes Yes
 FBD STL SCL GRAPH HiGraph® Know-how protection	Yes Yes Yes
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection Block encryption 	Yes Yes Yes
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection Block encryption 	Yes Yes Yes
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection Block encryption imensions Width	Yes Yes Yes Yes; With S7 block Privacy
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection 	Yes Yes Yes Yes; With S7 block Privacy 80 mm
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection Block encryption imensions Width Height Depth	Yes Yes Yes Yes; With S7 block Privacy 80 mm 125 mm
 FBD STL SCL GRAPH HiGraph® Know-how protection User program protection/password protection Block encryption imensions Width Height	Yes Yes Yes Yes; With S7 block Privacy 80 mm 125 mm

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