## **SIEMENS**

## **Data sheet**

6ES7314-1AG14-0AB0



SIMATIC S7-300, CPU 314 Central processing unit with MPI, Integr. power supply 24 V DC, work memory 128 KB, Micro Memory Card required

Figure similar

General information	
HW functional status	01
Firmware version	V3.3
Engineering with	
Programming package	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218
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)	2 A min.
Mains buffering	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
<ul> <li>Repeat rate, min.</li> </ul>	1 s
Input current	
Current consumption (rated value)	650 mA
Current consumption (in no-load operation), typ.	140 mA
Inrush current, typ.	3.5 A
l²t	1 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	4 W
Memory	
Work memory	
<ul><li>integrated</li></ul>	128 kbyte
expandable	No
Load memory	
<ul><li>Plug-in (MMC)</li></ul>	Yes
<ul><li>Plug-in (MMC), max.</li></ul>	8 Mbyte
<ul> <li>Data management on MMC (after last programming), min.</li> </ul>	10 a
Backup	
<ul><li>present</li></ul>	Yes; Guaranteed by MMC (maintenance-free)
without battery	Yes; Program and data
CPU processing times	
for bit operations, typ.	0.06 μs
for word operations, typ.	0.12 µs
for fixed point arithmetic, typ.	0.16 µs
for floating point arithmetic, typ.	0.59 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	be reduced by the MINIC dised.
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
<ul><li>Size, max.</li></ul>	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
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
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
<ul> <li>Retentivity available</li> </ul>	Yes; MB 0 to MB 255
<ul> <li>Retentivity preset</li> </ul>	MB 0 to MB 15
Number of clock memories	8; 1 memory byte
Data blocks	
<ul> <li>Retentivity adjustable</li> </ul>	Yes; via non-retain property on DB
Retentivity preset	Yes

Local data	
per priority class, max.	32 kbyte; Max. 2 KB per block
Address area	
I/O address area	
• Inputs	1 024 byte
Outputs	1 024 byte
Process image	
<ul><li>Inputs</li></ul>	1 024 byte
<ul><li>Outputs</li></ul>	1 024 byte
• Inputs, adjustable	1 024 byte
Outputs, adjustable	1 024 byte
<ul><li>Inputs, default</li><li>Outputs, default</li></ul>	128 byte 128 byte
Digital channels	126 byte
• Inputs	1 024
— of which central	1 024
Outputs	1 024
— of which central	1 024
Analog channels	
• Inputs	256
— of which central	256
<ul><li>Outputs</li></ul>	256
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	0
• via CP	4
Number of operable FMs and CPs (recommended)  • FM	0
• CP, PtP	8 8
• CP, LAN	10
Rack	10
• Racks, max.	4
Modules per rack, max.	8
Time of day	
Clock	
Hardware clock (real-time)	Yes
<ul> <li>retentive and synchronizable</li> </ul>	Yes
Backup time	6 wk; At 40 °C ambient temperature
<ul> <li>Deviation per day, max.</li> </ul>	10 s; Typ.: 2 s
<ul> <li>Behavior of the clock following POWER-ON</li> </ul>	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expiry of backup      The state of the clock following expire of the clock	the clock continues at the time of day it had when power was switched
period Operating hours counter	off
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	0
Digital outputs	
Number of digital outputs	0
Analog inputs	
Number of analog inputs	0

Analog outputs	
Number of analog outputs	0
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	1; MPI
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	110
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
<ul> <li>PROFIBUS DP master</li> </ul>	No
<ul> <li>PROFIBUS DP slave</li> </ul>	No
<ul> <li>Point-to-point connection</li> </ul>	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
<ul><li>— PG/OP communication</li></ul>	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
— S7 communication, as server	Yes
Protocols	
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
<ul> <li>Number of GD packets, receiver, max.</li> </ul>	
	8 22 byte
Size of GD packets, max.	22 byte
<ul><li>Size of GD packets, max.</li><li>Size of GD packet (of which consistent), max.</li></ul>	
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> </ul>	22 byte 22 byte
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> </ul>	22 byte 22 byte Yes
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> </ul>	22 byte 22 byte  Yes 76 byte
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> </ul>	22 byte 22 byte Yes
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> </ul>	22 byte 22 byte  Yes 76 byte 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul>	22 byte  Yes 76 byte 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> User data per job (of which consistent), max.	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB
Size of GD packets, max. Size of GD packet (of which consistent), max.  S7 basic communication  supported User data per job, max. User data per job (of which consistent), max.  S7 communication  supported as server as client User data per job, max. User data per job (of which consistent), max.  User data per job, max. User data per job (of which consistent), max.  S5 compatible communication	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET
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<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> Number of connections <ul> <li>overall</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC
Size of GD packets, max. Size of GD packet (of which consistent), max.  S7 basic communication  supported User data per job, max. User data per job (of which consistent), max.  S7 communication  supported as server as client User data per job, max. User data per job (of which consistent), max.  User data per job (of which consistent), max.  S5 compatible communication supported  Number of connections overall usable for PG communication	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> Number of connections <ul> <li>overall</li> <li>usable for PG communication</li> <li>reserved for PG communication</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> Number of connections <ul> <li>overall</li> <li>usable for PG communication</li> <li>reserved for PG communication, min.</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC
<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> Number of connections <ul> <li>overall</li> <li>usable for PG communication</li> <li>reserved for PG communication, min.</li> <li>adjustable for PG communication, max.</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC
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<ul> <li>Size of GD packets, max.</li> <li>Size of GD packet (of which consistent), max.</li> <li>S7 basic communication</li> <li>supported</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S7 communication <ul> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> <li>User data per job (of which consistent), max.</li> </ul> S5 compatible communication <ul> <li>supported</li> </ul> Number of connections <ul> <li>overall</li> <li>usable for PG communication</li> <li>reserved for PG communication, min.</li> <li>adjustable for PG communication, max.</li> </ul>	22 byte  Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)  Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server  Yes; via CP and loadable FC

<ul> <li>adjustable for OP communication, max.</li> </ul>	11
<ul> <li>usable for S7 basic communication</li> </ul>	8
<ul> <li>reserved for S7 basic communication</li> </ul>	0
<ul> <li>adjustable for S7 basic communication, min.</li> </ul>	0
adjustable for S7 basic communication, max.	8
S7 message functions	
Number of login stations for message functions, max.	12; 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
<ul> <li>Variables</li> </ul>	Inputs, outputs, memory bits, DB, times, counters
<ul> <li>Number of variables, max.</li> </ul>	30
<ul> <li>of which status variables, max.</li> </ul>	30
— of which control variables, max.	14
Forcing	
• Forcing	Yes
<ul> <li>Forcing, variables</li> </ul>	Inputs, outputs
<ul> <li>Number of variables, max.</li> </ul>	10
Diagnostic buffer	
• present	Yes
<ul> <li>Number of entries, max.</li> </ul>	500
— adjustable	No
<ul> <li>of which powerfail-proof</li> </ul>	100; Only the last 100 entries are retained
<ul> <li>Number of entries readable in RUN, max.</li> </ul>	499
— adjustable	Yes; From 10 to 499
— preset	10
Service data	
• can be read out	Yes
Ambient conditions	
Ambient conditions	
Ambient temperature during operation	
	0 °C
Ambient temperature during operation	0 °C 60 °C
Ambient temperature during operation  • min.  • max.	
Ambient temperature during operation  • min.  • max.  configuration / header	
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software	60 °C
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7	
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software	60 °C
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set	Yes; V5.2 SP1 or higher with HW update
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels	Yes; V5.2 SP1 or higher with HW update see instruction list
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set	Yes; V5.2 SP1 or higher with HW update  see instruction list 8
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)  Programming language	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)  Programming language  — LAD	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)  Programming language  — LAD — FBD	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list Yes Yes
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)  Programming language  — LAD — FBD — STL	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list Yes Yes Yes
Ambient temperature during operation  • min.  • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set  • Nesting levels  • System functions (SFC)  • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes Yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list see instruction list  Yes Yes Yes Yes Yes Yes Yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection • User program protection/password protection	Yes; V5.2 SP1 or higher with HW update  see instruction list  see instruction list  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection • User program protection/password protection • Block encryption	Yes; V5.2 SP1 or higher with HW update  see instruction list  see instruction list  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software • STEP 7  configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection • User program protection/password protection • Block encryption  Dimensions  Width	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list Yes
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software  • STEP 7  configuration / programming / header  • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection • User program protection/password protection • Block encryption  Dimensions  Width Height	Yes; V5.2 SP1 or higher with HW update  see instruction list  see instruction list  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Ambient temperature during operation  • min. • max.  configuration / header  Configuration software • STEP 7  configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®  Know-how protection • User program protection/password protection • Block encryption  Dimensions  Width	Yes; V5.2 SP1 or higher with HW update  see instruction list 8 see instruction list Yes

Weight, approx. 280 g

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