## SIEMENS

## Data sheet

## 6ES7315-2AH14-0AB0



SIMATIC S7-300, CPU 315-2DP Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB 2nd interface DP master/slave Micro Memory Card required

General information	
HW functional status	01
Firmware version	V3.3
Product function	
Isochronous mode	Yes
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	
Mains/voltage failure stored energy time	5 ms
Repeat rate, min.	1 s
Input current	
Current consumption (rated value)	850 mA
Current consumption (in no-load operation), typ.	150 mA
Inrush current, typ.	3.5 A
l²t	1 A <sup>2</sup> ·s
Power loss	
Power loss, typ.	4.5 W
Memory	
Work memory	
<ul> <li>integrated</li> </ul>	256 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	
	Yes; Guaranteed by MMC (maintenance-free)
• present	res, Guaranceed by MMC (maintenance-nee)
<ul><li>present</li><li>without battery</li></ul>	Yes; Program and data
-	
without battery	
without battery CPU processing times	Yes; Program and data
without battery CPU processing times for bit operations, typ.	Yes; Program and data 0.05 μs
without battery CPU processing times for bit operations, typ. for word operations, typ.	Yes; Program and data 0.05 μs 0.09 μs

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	of hojto
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 DPV1 alarm OBs	3; OB 55, 56, 57
Number of isochronous mode OBs	1; OB 61
Number of startup OBs	1; OB 100
Number of asynchronous error OBs	5; OB 80, 82, 85, 86, 87
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	
per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	200
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	201021
— 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
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
• present	Yes
•Туре	SFB
• Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	128 kbyte
Flag	
• Size, max.	2 048 byte
Retentivity available	Yes; MB 0 to MB 2 047
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. 2 KB per block
Address area	
I/O address area	
Inputs	2 048 byte
• Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
Inputs	2 048 byte
Outputs	2 048 byte
<ul> <li>Inputs, adjustable</li> </ul>	2 048 byte
Outputs, adjustable	2 048 byte
Inputs, default	128 byte
Outputs, default	128 byte
Subprocess images	
<ul> <li>Number of subprocess images, max.</li> </ul>	1
Digital channels	
Inputs	16 384
— of which central	1 024
Outputs	16 384
- of which central	1 024
Analog channels	
Inputs	1 024
— of which central	256
Outputs	1 024
— of which central	256
Hardware configuration	
Number of expansion units, max.	3
Number of DP masters	
• integrated	1
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack	4
Racks, max.	4 8
Modules per rack, max. Time of day	0
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
Deviation per day, max.	10 s; Typ.: 2 s
Behavior of the clock following POWER-ON	Clock continues running after POWER OFF
Behavior of the clock following expiry of backup period	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	1h
• retentive	Yes; Must be restarted at each restart
Clock synchronization	
supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes; With DP slave only slave clock

• to DP, 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	2; MPI and PROFIBUS DP
Number of RS 422 interfaces	0
1. Interface	
Interface type	Integrated RS 485 interface
Isolated	No
Interface types	
• RS 485	Yes
Output current of the interface, max.	200 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	No
PROFIBUS DP slave	No
Point-to-point connection	No
MPI	
Transmission rate, max.	187.5 kbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
— 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
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
<ul> <li>Output current of the interface, max.</li> </ul>	200 mA
Protocols	
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
Point-to-point connection	No
PROFIBUS DP master	
• Transmission rate, max.	12 Mbit/s
• Number of DP slaves, max.	124; Per station
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes; Only server, configured on one side
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes

<ul> <li>— Isochronous mode</li> </ul>	Yes; OB 61
- SYNC/FREEZE	Yes
<ul> <li>Activation/deactivation of DP slaves</li> </ul>	Yes
<ul> <li>Number of DP slaves that can be simultaneously</li> </ul>	8
activated/deactivated, max.	N
— DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— Outputs, max.	2 048 byte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
PROFIBUS DP slave	
• GSD file	The latest GSD file is available at: http://www.siemens.com/profibus-gsd
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul> <li>automatic baud rate search</li> </ul>	Yes; only with passive interface
<ul> <li>Address area, max.</li> </ul>	32
<ul> <li>User data per address area, max.</li> </ul>	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; Only with active interface
<ul> <li>— Global data communication</li> </ul>	No
<ul> <li>— S7 basic communication</li> </ul>	No
— S7 communication	Yes; Only server, configured on one side
<ul> <li>— S7 communication, as client</li> </ul>	No
- S7 communication, as server	Yes
<ul> <li>Direct data exchange (slave-to-slave</li> </ul>	Yes
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
PROFIsafe	No
	No
PROFIsafe	No Yes
PROFIsafe communication functions / header	
PROFIsafe communication functions / header PG/OP communication	Yes
PROFIsafe communication functions / header PG/OP communication Data record routing	Yes
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication	Yes Yes
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported	Yes Yes Yes
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max.	Yes Yes Yes 8
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max.	Yes Yes Yes 8 8
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.	Yes Yes Yes 8 8 8 8
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, receiver, max.         • Number of GD packets, receiver, max.	Yes Yes Yes 8 8 8 8 8
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, receiver, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, receiver, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication	Yes Yes Yes 8 8 8 8 8 8 8 8 8 22 byte 22 byte
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • User data per job, max.         • User data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte Yes 76 byte
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • User data per job, max.	Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 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)
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • User data per job, max.         • User data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • Communication function / S7 basic communication         • User data per job, max.         • User data per job (of which consistent), max.         S7 communication         • supported         • as server	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • User data per job, max.         • User data per job (of which consistent), max.         S7 communication         • supported         • as server         • as client	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte 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
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • 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.	Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 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 Yes; Via CP and loadable FB 180 byte; With PUT/GET
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • 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, max.         • User data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte 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
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • Communication function / S7 basic communication         • 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.	Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 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
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • 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.         S5 compatible communication         • supported         • supported	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte 22 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 Yes; Via CP and loadable FB 180 byte; With PUT/GET
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • 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.         S5 compatible communication	Yes Yes Yes Yes 8 8 8 8 22 byte 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
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • 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.         S5 compatible communication         • supported         • supported	Yes Yes Yes Yes 8 8 8 8 22 byte 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
PROFIsafe         communication functions / header         PG/OP communication         Data record routing         Global data communication         • supported         • Number of GD loops, max.         • Number of GD packets, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, transmitter, max.         • Number of GD packets, receiver, max.         • Size of GD packets, max.         • Size of GD packets, max.         • Size of GD packet (of which consistent), max.         S7 basic communication         • communication function / S7 basic communication         • User data per job, max.         • User data per job (of which consistent), max.         S7 communication         • supported         • as server         • as client         • User data per job (of which consistent), max.         S5 compatible communication         • supported         • supported         • supported         • supported         • supported	Yes Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 22 byte 22 byte Yes 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

<ul> <li>reserved for PG communication</li> </ul>	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	15
usable for OP communication	15
- reserved for OP communication	1
— adjustable for OP communication, min.	1
— adjustable for OP communication, max.	15
<ul> <li>usable for S7 basic communication</li> </ul>	12
<ul> <li>reserved for S7 basic communication</li> </ul>	0
<ul> <li>adjustable for S7 basic communication, min.</li> </ul>	0
<ul> <li>— adjustable for S7 basic communication, max.</li> </ul>	12
S7 message functions	
Number of login stations for message functions, max.	16; 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
<ul> <li>Number of variables, max.</li> </ul>	30
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	
Forcing	Yes
• Forcing, variables	Inputs, outputs
Number of variables, max.	10
Diagnostic buffer	
• present	Yes
Number of entries, max.	500
— adjustable	No
— of which powerfail-proof	100; Only the last 100 entries are retained
Number of entries readable in RUN, max.	
— adjustable	Yes; From 10 to 499
— preset	10
Service data	10
• can be read out	Vac
Can be read out     Ambient conditions	Yes
Ambient temperature during operation	0.80
• min.	0 °C
• max.	60 °C
configuration / booder	
configuration / header	
Configuration software	
Configuration software • STEP 7	Yes; V5.2 SP1 or higher with HW update
Configuration software • STEP 7 configuration / programming / header	
Configuration software • STEP 7 configuration / programming / header • Command set	see instruction list
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels	see instruction list 8
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC)	see instruction list 8 see instruction list
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB)	see instruction list 8
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language	see instruction list 8 see instruction list see instruction list
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD	see instruction list 8 see instruction list see instruction list Yes
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD	see instruction list 8 see instruction list see instruction list
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD	see instruction list 8 see instruction list see instruction list Yes
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD	see instruction list 8 see instruction list see instruction list Yes Yes
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD — STL	see instruction list 8 see instruction list see instruction list Yes Yes Yes
Configuration software • STEP 7 configuration / programming / header • Command set • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language - LAD - FBD - STL - SCL	see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes
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	see instruction list 8 see instruction list see instruction list Yes Yes Yes Yes Yes

<ul> <li>User program protection/password protection</li> <li>Block encryption</li> </ul>	Yes Yes; With S7 block Privacy
Dimensions	
Width	40 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	290 g

last modified:

9/7/2023 🖸