## **SIEMENS**

## **Data sheet**

6ES7515-2AM00-0AB0



\*\*\*Spare part\*\*\* SIMATIC S7-1500, CPU 1515-2 PN, Central processing unit with work memory 500 KB for Program and 3 MB for data, 1st interface, PROFINET IRT with 2-port switch, 2nd interface, Ethernet, 30 ns bit performance, SIMATIC Memory Card required

General information	
Product type designation	CPU 1515-2 PN
HW functional status	FS02
Firmware version	V1.8
Product function	
Isochronous mode	Yes; With minimum OB 6x cycle of 500 µs
Engineering with	
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V13 SP1 Update 4
Configuration control	
via dataset	Yes
Display	
Screen diagonal [cm]	6.1 cm
Control elements	
Number of keys	6
Mode selector switch	1
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption (rated value)	0.8 A
Inrush current, max.	2.4 A; Rated value
l²t	0.02 A <sup>2</sup> ·s
Power	
Infeed power to the backplane bus	12 W
Power consumption from the backplane bus (balanced)	6.2 W
Power loss	
Power loss, typ.	6.3 W
Memory	
SIMATIC memory card required	Yes
Work memory	
<ul><li>integrated (for program)</li></ul>	500 kbyte
integrated (for data)	3 Mbyte
Load memory	
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	32 Gbyte
Backup	

maintenance-free	Yes
	165
CPU processing times	20 22
for bit operations, typ.	30 ns
for word operations, typ. for fixed point arithmetic, typ.	36 ns 48 ns
for floating point arithmetic, typ.	192 ns
CPU-blocks	132 113
	0.000 PL 1 (0P EP E0 PP) 111PT
Number of elements (total)	6 000; Blocks (OB, FB, FC, DB) and UDTs
DB Number and the	
<ul><li>Number range</li><li>Size, max.</li></ul>	<ul> <li>1 60 999; subdivided into: number range that can be used by the user: 1 59 999, and number range of DBs created via SFC 86: 60 000 60 999</li> <li>3 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB</li> </ul>
FB	
Number range	0 65 535
Size, max.	500 kbyte
FC	
Number range	0 65 535
• Size, max.	500 kbyte
OB	FOO librate
• Size, max.	500 kbyte
Number of free cycle OBs	100
Number of time alarm OBs	20
Number of delay alarm OBs     Number of cyclic interrupt OBs	20
Number of cyclic interrupt OBs     Number of cyclic interrupt OBs	20
<ul> <li>Number of process alarm OBs</li> <li>Number of DPV1 alarm OBs</li> </ul>	50
	3
Number of isochronous mode OBs     Number of technology synchronous plarm OBs	2
<ul><li>Number of technology synchronous alarm OBs</li><li>Number of startup OBs</li></ul>	100
Number of startup Obs     Number of asynchronous error OBs	4
Number of asynchronous error OBs     Number of synchronous error OBs	2
Number of synchronous error Obs     Number of diagnostic alarm OBs	1
Nesting depth	
per priority class	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	2 040
— adjustable	Yes
IEC counter	100
Number	Any (only limited by the main memory)
Retentivity	, , , , , , , , , , , , , , , , , , , ,
— adjustable	Yes
S7 times	
Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
Number	Any (only limited by the main memory)
Retentivity	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB
Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
<ul> <li>Retentivity adjustable</li> </ul>	Yes
Retentivity preset	No
Local data	
<ul> <li>per priority class, max.</li> </ul>	64 kbyte; max. 16 KB per block

Address area	
Number of IO modules	8 192; max. number of modules / submodules
I/O address area	
• Inputs	32 kbyte; All inputs are in the process image
Outputs	32 kbyte; All outputs are in the process image
per integrated IO subsystem	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
per CM/CP	***
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	
Number of subprocess images, max.	32
Hardware configuration	
Number of distributed IO systems	20
Number of DP masters	
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Number of IO Controllers	
<ul><li>integrated</li></ul>	1
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Rack	
<ul> <li>Modules per rack, max.</li> </ul>	32; CPU + 31 modules
Number of lines, max.	1
PtP CM	
Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
• Type	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
<ul> <li>Deviation per day, max.</li> </ul>	10 s; Typ.: 2 s
Operating hours counter	•
Number	16
Clock synchronization	
• supported	Yes
• in AS, master	Yes
• in AS, slave	Yes
<ul> <li>on Ethernet via NTP</li> </ul>	Yes
Interfaces	
Number of PROFINET interfaces	2
1. Interface	
Interface types	Voc. V1
RJ 45 (Ethernet)      Number of ports	Yes; X1
Number of ports     integrated switch	Yes
integrated switch  Protocols	1 00
PROFINET IO Controller	Yes
PROFINET IO Controller     PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	100
Services	
— PG/OP communication	Yes
Isochronous mode	Yes
— ISOCITIONOUS Mode  — IRT	Yes
— PROFlenergy	Yes
Prorietiergy      Prioritized startup	Yes; Max. 32 PROFINET devices
Number of connectable IO Devices, max.	256; In total, up to 512 distributed I/O devices can be connected via PROFIBUS or PROFINET

<ul> <li>Of which IO devices with IRT, max.</li> </ul>	64
<ul> <li>Number of connectable IO Devices for RT,</li> </ul>	256
max.	
<ul><li>of which in line, max.</li></ul>	256
<ul> <li>Number of IO Devices that can be</li> </ul>	8
simultaneously activated/deactivated, max.	
<ul> <li>Number of IO Devices per tool, max.</li> </ul>	8
<ul><li>Updating times</li></ul>	The minimum value of the update time also depends on communication
	share set for PROFINET IO, on the number of IO devices, and on the
Lindata Kara fara IDT	quantity of configured user data
Update time for IRT	050 ( 4 A) ( 1 ( ) ( ) ( ) ( ) ( ) ( ) ( )
— for send cycle of 250 μs	250 μs to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 500 μs of the isochronous OB is decisive
for cond avala of 500 us	
— for send cycle of 500 µs	500 μs to 8 ms 1 ms to 16 ms
— for send cycle of 1 ms	
— for send cycle of 2 ms	2 ms to 32 ms
— for send cycle of 4 ms	4 ms to 64 ms
<ul> <li>With IRT and parameterization of "odd" send cycles</li> </ul>	Update time = set "odd" send clock (any multiple of 125 $\mu$ s: 375 $\mu$ s, 625 $\mu$ s 3 875 $\mu$ s)
Update time for RT	μο ο 07 ο μο)
— for send cycle of 250 μs	250 μs to 128 ms
— for send cycle of 200 µs  — for send cycle of 500 µs	500 µs to 256 ms
— for send cycle of 300 µs  — for send cycle of 1 ms	1 ms to 512 ms
— for send cycle of 1 ms  — for send cycle of 2 ms	2 ms to 512 ms
— for send cycle of 2 ms  — for send cycle of 4 ms	4 ms to 512 ms
PROFINET IO Device	T 1110 10 0 12 1110
Services Service	
— PG/OP communication	Yes
Isochronous mode	No
— IRT	Yes
PROFlenergy      Shared device	Yes
Number of IO Controllers with shared device,	Yes 4
•	4
IIIax.	
max.	
2. Interface	
2. Interface Interface types	Vos: Y2
2. Interface Interface types • RJ 45 (Ethernet)	Yes; X2
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports	1
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch	
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch Protocols	1 No
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller	1 No
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device	No No
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication	1 No No No Yes
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device  • SIMATIC communication  • Open IE communication	No No No Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server	1 No No No Yes
2. Interface Interface types  • RJ 45 (Ethernet)  • Number of ports  • integrated switch  Protocols  • PROFINET IO Controller  • PROFINET IO Device  • SIMATIC communication  • Open IE communication  • Web server  Interface types	No No Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet)	1 No No No Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps	No No No Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation	No No No Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing	No No No Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation	No No No Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing	No No No Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autorossing • Industrial Ethernet status LED	No No No Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols	1 No No No Yes Yes Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe	No No No Yes Yes Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe Number of connections	No No No Yes Yes Yes Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections, max.	No No No Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections, max. • Number of connections reserved for ES/HMI/web	No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes You Yes Yes Yes Yes Yes Yes Yes Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autoregotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections, max. • Number of connections reserved for ES/HMI/web • Number of connections via integrated interfaces	No No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes You Yes Yes You Yes Yes Yes You No
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections, max. • Number of connections reserved for ES/HMI/web • Number of connections via integrated interfaces • Number of S7 routing paths	No No No Yes Yes Yes Yes Yes Yes Yes You Yes Yes You Yes Yes You Yes Yes Yes You No
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections, max. • Number of connections reserved for ES/HMI/web • Number of connections via integrated interfaces • Number of S7 routing paths  Redundancy mode	No No No Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes You Yes Yes Yes You No
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections • Number of connections reserved for ES/HMI/web • Number of S7 routing paths  Redundancy mode  Media redundancy	No No No Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes No  192; via integrated interfaces of the CPU and connected CPs / CMs 10 108 16
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections • Number of connections reserved for ES/HMI/web • Number of S7 routing paths  Redundancy mode  Media redundancy	No No No Yes
2. Interface Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols  • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server  Interface types  RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED  Protocols  PROFIsafe  Number of connections • Number of connections reserved for ES/HMI/web • Number of connections via integrated interfaces • Number of S7 routing paths  Redundancy mode  Media redundancy  — MRP	No No No Yes

07 (	v
• S7 routing	Yes
S7 communication, as server	Yes
S7 communication, as client     User data per job, may	Yes
User data per job, max.  Open IE communication	See online help (S7 communication, user data size)
TCP/IP	Yes
— Data length, max.	64 kbyte
several passive connections per port,	Yes
supported	163
• ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	1 472 byte
• DHCP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Web server	
• HTTP	Yes; Standard and user-defined pages
• HTTPS	Yes; Standard and user-defined pages
Further protocols	
• MODBUS	Yes; MODBUS TCP
Isochronous mode	
Equidistance	Yes
S7 message functions	
Number of login stations for message functions, max.	32
Program alarms	Yes
Number of configurable program messages, max.	10 000
Number of simultaneously active program alarms	
Number of program alarms	600
Number of alarms for system diagnostics	200
Number of alarms for motion technology objects	160
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 8 engineering systems
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
Single step	No
Status/control	
Status/control variable	Yes
<ul> <li>Variables</li> </ul>	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
<ul> <li>Number of variables, max.</li> </ul>	
<ul> <li>of which status variables, max.</li> </ul>	200; per job
— of which control variables, max.	200; per job
Forcing	
<ul> <li>Forcing, variables</li> </ul>	Peripheral inputs/outputs
<ul> <li>Number of variables, max.</li> </ul>	200
Diagnostic buffer	
• present	Yes
<ul> <li>Number of entries, max.</li> </ul>	3 200
of which noworfail proof	500
— of which powerfail-proof	
Traces	
Traces  ● Number of configurable Traces	4; Up to 512 KB of data per trace are possible
Traces	
Traces  • Number of configurable Traces	
Traces	
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED	4; Up to 512 KB of data per trace are possible
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED  • MAINT LED	4; Up to 512 KB of data per trace are possible  Yes
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED	4; Up to 512 KB of data per trace are possible  Yes Yes
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED  • MAINT LED	4; Up to 512 KB of data per trace are possible  Yes Yes Yes
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED  • MAINT LED  • Connection display LINK TX/RX	4; Up to 512 KB of data per trace are possible  Yes Yes Yes
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED  • MAINT LED  • Connection display LINK TX/RX  Supported technology objects	4; Up to 512 KB of data per trace are possible  Yes Yes Yes Yes Yes
Traces  • Number of configurable Traces  Interrupts/diagnostics/status information  Diagnostics indication LED  • RUN/STOP LED  • ERROR LED  • MAINT LED  • Connection display LINK TX/RX  Supported technology objects  Motion Control	4; Up to 512 KB of data per trace are possible  Yes Yes Yes Yes Yes

<ul> <li>Positioning axis</li> </ul>	
<ul> <li>Number of positioning axes, max.</li> </ul>	30; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool
<ul> <li>Synchronized axes (relative gear synchronization)</li> </ul>	, ,
— Number of axes, max.	15; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool
External encoders	
<ul> <li>Number of external encoders, max.</li> </ul>	30; Requirement: There must be no other motion technology objects created; note: The number of axes affects the cycle time of the PLC program; selection guide via the TIA Selection Tool
Controller	
<ul> <li>PID_Compact</li> </ul>	Yes; Universal PID controller with integrated optimization
<ul><li>PID_3Step</li></ul>	Yes; PID controller with integrated optimization for valves
PID-Temp	Yes; PID controller with integrated optimization for temperature
Counting and measuring	
<ul> <li>High-speed counter</li> </ul>	Yes
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	0 °C
horizontal installation, max.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
<ul> <li>vertical installation, min.</li> </ul>	0 °C
• vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
configuration / header	
•	
configuration / programming / header	
configuration / programming / header	Yes
configuration / programming / header Programming language	Yes Yes
configuration / programming / header Programming language — LAD — FBD — STL	
configuration / programming / header Programming language — LAD — FBD — STL — SCL	Yes
configuration / programming / header Programming language — LAD — FBD — STL — SCL — GRAPH	Yes Yes
configuration / programming / header Programming language — LAD — FBD — STL — SCL — GRAPH Know-how protection	Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection	Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection  • Copy protection	Yes Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection  • Copy protection  • Block protection	Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection  • Copy protection  • Block protection  Access protection	Yes Yes Yes Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection  • Copy protection  • Block protection  Access protection  • Password for display	Yes Yes Yes Yes Yes Yes Yes Yes Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection	Yes
configuration / programming / header  Programming language  — LAD — FBD — STL — SCL — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection  • Protection level: Read/write protection  • Protection level: Complete protection  programming / cycle time monitoring / header	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection  • Protection level: Read/write protection  • Protection level: Complete protection  programming / cycle time monitoring / header • lower limit	Yes
configuration / programming / header  Programming language  — LAD — FBD — STL — SCL — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection  programming / cycle time monitoring / header • lower limit • upper limit	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection  • Copy protection  • Block protection  Access protection  • Password for display  • Protection level: Write protection  • Protection level: Read/write protection  • Protection level: Complete protection  programming / cycle time monitoring / header  • lower limit  • upper limit  Dimensions	Yes
configuration / programming / header  Programming language  — LAD — FBD — STL — SCL — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit  Dimensions  Width	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit  Dimensions  Width Height	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit  Dimensions  Width Height Depth	Yes
configuration / programming / header  Programming language  — LAD  — FBD  — STL  — SCL  — GRAPH  Know-how protection  • User program protection/password protection • Copy protection • Block protection  Access protection  • Password for display • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit  Dimensions  Width Height	Yes

Pobrano z: https://sterowniki-plc.net/sterownik-plc-simatic-s7-1500-24v-dc-siemens-6es7515-2am00-0ab0