## 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	
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	5 ms
Input current	
Current consumption (rated value)	0.8 A
Inrush current, max.	2.4 A; Rated value
<sup>2</sup> t	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
<ul> <li>integrated (for data)</li> </ul>	3 Mbyte
Load memory	
<ul> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	32 Gbyte

Backup	
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	30 ns
for word operations, typ.	36 ns
for fixed point arithmetic, typ.	48 ns
for floating point arithmetic, typ.	192 ns
CPU-blocks	132 115
	6 000 Plaska (OP, EP, EC, DP) and UPTa
Number of elements (total) DB	6 000; Blocks (OB, FB, FC, DB) and UDTs
Number range	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
• Size, max.	3 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB
FB	
Number range	0 65 535
• Size, max.	500 kbyte
FC	
Number range	0 65 535
• Size, max.	500 kbyte
OB	
<ul> <li>Size, max.</li> </ul>	500 kbyte
<ul> <li>Number of free cycle OBs</li> </ul>	100
<ul> <li>Number of time alarm OBs</li> </ul>	20
<ul> <li>Number of delay alarm OBs</li> </ul>	20
<ul> <li>Number of cyclic interrupt OBs</li> </ul>	20
<ul> <li>Number of process alarm OBs</li> </ul>	50
<ul> <li>Number of DPV1 alarm OBs</li> </ul>	3
<ul> <li>Number of isochronous mode OBs</li> </ul>	1
<ul> <li>Number of technology synchronous alarm OBs</li> </ul>	2
Number of startup OBs	100
<ul> <li>Number of asynchronous error OBs</li> </ul>	4
Number of synchronous error OBs	2
Number of diagnostic alarm OBs	1
Nesting depth	
<ul> <li>per priority class</li> </ul>	24
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
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	any (only inflice by the main memory)
— adjustable	Yes
Data areas and their retentivity	
	540 libutes in tetals escalable estanting assessed for 199
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	conteres, bbo, and torinology add (area). The red
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
	o, o dock memory bit, grouped into one clock memory byte

Data klaska	
Data blocks	Yes
<ul><li>Retentivity adjustable</li><li>Retentivity preset</li></ul>	No
Local data	
per priority class, max.	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	
<ul> <li>Number of subprocess images, max.</li> </ul>	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
Deal	be inserted in total
Rack	20: CDL + 21 modulos
Modules per rack, max.	32; CPU + 31 modules
Number of lines, max.      PtP CM	1
Number of PtP CMs	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
• Туре	Hardware clock
Backup time	6 wk; At 40 °C ambient temperature, typically
Deviation per day, max.	10 s; Typ.: 2 s
Operating hours counter	
Number	16
Clock synchronization	
supported	Yes
• in AS, master	Yes
• in AS, slave	Yes
on Ethernet via NTP	Yes
Interfaces	
Number of PROFINET interfaces	2
1. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X1
Number of ports	2
integrated switch	Yes
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes
Web server	Yes
Media redundancy     PROFINET IO Controller	Yes
PROFINELIO CONTOIIER	

Services	
— PG/OP communication	Yes
— Isochronous mode	Yes
— IRT	Yes
— PROFlenergy	Yes
— 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.	
— of which in line, max.	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
— Updating times	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
	quantity of configured user data
Update time for IRT	
— 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 $\mu s$ of the isochronous OB is decisive
— for send cycle of 500 μs	500 µs to 8 ms
— for send cycle of 1 ms	1 ms to 16 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</li> </ul>	Update time = set "odd" send clock (any multiple of 125 µs: 375 µs, 625
cycles	μs 3 875 μs)
Update time for RT	
— for send cycle of 250 μs	250 µs to 128 ms
— for send cycle of 500 μs	500 µs to 256 ms
— for send cycle of 1 ms	1 ms to 512 ms
— for send cycle of 2 ms	2 ms to 512 ms
<ul> <li>for send cycle of 4 ms</li> </ul>	4 ms to 512 ms
PROFINET IO Device	
PROFINET IO Device Services	
PROFINET IO Device Services — PG/OP communication	Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode	No
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT	No Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy	No Yes Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Shared device	No Yes Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device,	No Yes Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device, max.	No Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.	No Yes Yes
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device, max. 2. Interface Interface types	No Yes Yes Yes 4
PROFINET IO Device Services — PG/OP communication — Isochronous mode — IRT — PROFlenergy — Shared device — Number of IO Controllers with shared device, max. 2. Interface Interface types • RJ 45 (Ethernet)	No Yes Yes 4 Yes; X2
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports	No Yes Yes 4 Yes; X2 1
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch	No Yes Yes 4 Yes; X2
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch	No Yes Yes 4 Yes; X2 1 No
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch         Protocols         • PROFINET IO Controller	No Yes Yes 4 Yes; X2 1 No
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch         Protocols         • PROFINET IO Controller         • PROFINET IO Device	No Yes Yes 4 Yes; X2 1 No No
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch         Protocols         • PROFINET IO Controller         • PROFINET IO Device         • SIMATIC communication	No Yes Yes 4 Yes; X2 1 No No No Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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 Yes Yes 4 Yes; X2 1 No No No Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         2. Interface         Interface types         • RJ 45 (Ethernet)         • Number of ports         • integrated switch         Protocols         • PROFINET IO Controller         • PROFINET IO Device         • SIMATIC communication         • Web server	No Yes Yes 4 Yes; X2 1 No No No Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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	No Yes Yes 4 Yes; X2 1 No No No Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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 Yes Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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 Yes Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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 Yes Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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)         • Autonegotiation         • Autorossing	No Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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)         • IND Protocols         • PROFINET IO Device         • SIMATIC communication         • Open IE communication         • Web server         Interface types         RJ 45 (Ethernet)         • 100 Mbps         • Autonegotiation         • Autocrossing         • Industrial Ethernet status LED	No Yes Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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         • Autoregotiation         • Autorossing         • Industrial Ethernet status LED	No Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes Yes Yes Yes Yes
PROFINET IO Device         Services         — PG/OP communication         — Isochronous mode         — IRT         — PROFlenergy         — Shared device         — Number of IO Controllers with shared device, max.         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)         • Interface types         • Interface types         • IO Obvice         • SIMATIC communication         • Open IE communication         • Undegotiation         • Autonegotiation         • Autocrossing         • Industrial Ethernet status LED	No Yes Yes 4 Yes; X2 1 No No No Yes Yes Yes Yes Yes

Number of connections, max.	192; via integrated interfaces of the CPU and connected CPs / CMs
Number of connections reserved for ES/HMI/web	10 108
<ul> <li>Number of connections via integrated interfaces</li> <li>Number of S7 routing paths</li> </ul>	16
Redundancy mode	10
Media redundancy	
— MRP	Yes; as MRP redundancy manager and/or MRP client; max. number of
	devices in the ring: 50
<ul> <li>— Switchover time on line break, typ.</li> </ul>	200 ms
<ul> <li>— Number of stations in the ring, max.</li> </ul>	50
SIMATIC communication	
S7 routing	Yes
<ul> <li>S7 communication, as server</li> </ul>	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes
<ul> <li>User data per job, max.</li> </ul>	See online help (S7 communication, user data size)
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
<ul> <li>— several passive connections per port, supported</li> </ul>	Yes
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	
	Yes
Equidistance	res
S7 message functions	20
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	600
Number of program alarms	200
<ul> <li>Number of alarms for system diagnostics</li> <li>Number of alarms for motion technology objects</li> </ul>	160
Test commissioning functions	Vec: Parallel online access possible for up to 9 engineering systems
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 8 engineering systems
Status block	Ves: Up to 8 simultaneously (in total across all ES alignets)
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
Single step	Yes; Up to 8 simultaneously (in total across all ES clients) No
Single step Status/control	No
Single step Status/control • Status/control variable	No Yes
Single step Status/control • Status/control variable • Variables	No
Single step Status/control • Status/control variable • Variables • Number of variables, max.	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max.	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Peripheral inputs/outputs
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max.	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Peripheral inputs/outputs
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job Peripheral inputs/outputs 200
Single step Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present	No Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job 200; per job Peripheral inputs/outputs 200 Yes

Traces	
Number of configurable Traces	4; Up to 512 KB of data per trace are possible
Interrupts/diagnostics/status information	
Diagnostics indication LED	
RUN/STOP LED	Yes
• ERROR LED	Yes
MAINT LED	Yes
<ul> <li>Connection display LINK TX/RX</li> </ul>	Yes
Supported technology objects	
Motion Control	Yes
Speed-controlled axis	
<ul> <li>Number of speed-controlled 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>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
<ul> <li>External encoders</li> <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	
PID_Compact	Yes; Universal PID controller with integrated optimization
PID_3Step	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	
Ambient temperature during operation <ul> <li>horizontal installation, min.</li> </ul>	0 °C
<ul><li>horizontal installation, min.</li><li>horizontal installation, max.</li></ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
horizontal installation, min.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header</b>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the
horizontal installation, min.     horizontal installation, max.     vertical installation, min.     vertical installation, max.      configuration / header     configuration / programming / header     Programming language	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> — LAD	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> <b>Know-how protection</b> <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> <li>Password for display</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> <b>Know-how protection</b> <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul> <b>Access protection</b> <ul> <li>Password for display</li> <li>Protection level: Write protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> <b>Know-how protection</b> <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul> <b>Access protection</b> <ul> <li>Password for display</li> <li>Protection level: Write protection</li> <li>Protection level: Read/write protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / programming / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> <b>Know-how protection</b> <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul> <b>Access protection</b> <ul> <li>Protection level: Write protection</li> <li>Protection level: Read/write protection</li> <li>Protection level: Complete protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> configuration / header configuration / programming / header Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> <li>Password for display</li> <li>Protection level: Write protection</li> <li>Protection level: Complete protection</li> <li>Protection level: Complete protection</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> <b>configuration / header configuration / header Programming language</b> <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> <b>Know-how protection</b> <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> <li>Protection level: Write protection</li> <li>Protection level: Write protection</li> <li>Protection level: Complete protection</li> <li>Programming / cycle time monitoring / header</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
<ul> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul> configuration / header configuration / programming / header Programming language <ul> <li>LAD</li> <li>FBD</li> <li>STL</li> <li>SCL</li> <li>GRAPH</li> </ul> Know-how protection <ul> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> <li>Password for display</li> <li>Protection level: Write protection</li> <li>Protection level: Complete protection</li> <li>Protection level: Complete protection</li> <li>programming / cycle time monitoring / header</li> </ul>	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	830 g
last modified:	11/3/2021 🖸

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