SIEMENS

Data sheet

6ES7513-1FL00-0AB0



Spare part SIMATIC S7-1500F, CPU 1513F-1 PN, Central processing unit with work memory 450 KB for program and 1.5 MB for data, 1st interface, PROFINET IRT with 2-port switch, 40 ns bit performance, SIMATIC Memory Card required

General information	
Product type designation	CPU 1513F-1 PN
HW functional status	FS01
Firmware version	V1.8
Product function	
Isochronous mode	Yes; With minimum OB 6x cycle of 500 μs
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V13 SP1 Update 4
Display	
Screen diagonal [cm]	3.45 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
Input current	
Current consumption (rated value)	0.7 A
Inrush current, max.	1.9 A; Rated value
Power	
Infeed power to the backplane bus	10 W
Power consumption from the backplane bus (balanced)	5.5 W
Power loss	
Power loss, typ.	5.7 W
Memory	
SIMATIC memory card required	Yes
Work memory	
• integrated (for program)	450 kbyte
integrated (for data)	1.5 Mbyte
Load memory	
 Plug-in (SIMATIC Memory Card), max. 	32 Gbyte
Backup	
 maintenance-free 	Yes
CPU processing times	
for bit operations, typ.	40 ns
for word operations, typ.	48 ns

for fixed point arithmetic, typ.	64 ns
for floating point arithmetic, typ.	256 ns
CPU-blocks	
Number of elements (total)	2 000; 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.	1.5 Mbyte; For non-optimized block accesses, the max. size of the DB is 64 KB
FB	
Number range	0 65 535
• Size, max.	450 kbyte
FC	
Number range	0 65 535
• Size, max.	450 kbyte
OB	
• Size, max.	450 kbyte
Number of free cycle OBs	100
Number of time alarm OBs	20
Number of delay alarm OBs	20
Number of delay alarm OBs Number of cyclic interrupt OBs	20
 Number of cyclic interrupt OBs Number of process alarm OBs 	50
·	
Number of DPV1 alarm OBs	3
Number of isochronous mode OBs	1
Number of technology synchronous alarm OBs	2
 Number of startup OBs 	100
 Number of asynchronous error OBs 	4
 Number of synchronous error OBs 	2
Number of diagnostic alarm OBs	1
Nesting depth	
 per priority class 	24; Up to 8 possible for F-blocks
Counters, timers and their retentivity	
Counters, timers and their retentivity	2 048
Counters, timers and their retentivity S7 counter	2 048
Counters, timers and their retentivity S7 counter • Number	2 048 Yes
Counters, timers and their retentivity S7 counter • Number Retentivity	
Counters, timers and their retentivity S7 counter • Number Retentivity — adjustable	Yes
Counters, timers and their retentivity S7 counter Number Retentivity adjustable IEC counter Number	
Counters, timers and their retentivity S7 counter Number Retentivity adjustable IEC counter Number Retentivity	Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable	Yes Any (only limited by the main memory)
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times	Yes Any (only limited by the main memory) Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number	Yes Any (only limited by the main memory)
Counters, timers and their retentivity S7 counter Number Retentivity adjustable IEC counter Number Retentivity adjustable S7 times Number Retentivity	Yes Any (only limited by the main memory) Yes 2 048
Counters, timers and their retentivity S7 counter Number Retentivity adjustable IEC counter Number Retentivity adjustable S7 times Number Retentivity adjustable adjustable	Yes Any (only limited by the main memory) Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer	Yes Any (only limited by the main memory) Yes 2 048 Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number	Yes Any (only limited by the main memory) Yes 2 048
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory)
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Adjustable IEC timer Adjustable Data areas and their retentivity	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Retentivity — adjustable IEC timer Retentivity — adjustable Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory)
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Adjustable IEC timer Adjustable Data areas and their retentivity	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Retentivity — adjustable IEC timer Retentivity — adjustable Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers,
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Retentivity — adjustable IEC timer Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max.	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks Retentivity adjustable	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte
Counters, timers and their retentivity S7 counter Number Retentivity — adjustable IEC counter Number Retentivity — adjustable S7 times Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable IEC timer Number Retentivity — adjustable Data areas and their retentivity Retentive data area (incl. timers, counters, flags), max. Flag Size, max. Number of clock memories Data blocks Retentivity adjustable Retentivity preset	Yes Any (only limited by the main memory) Yes 2 048 Yes Any (only limited by the main memory) Yes 128 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 88 KB 16 kbyte 8; 8 clock memory bit, grouped into one clock memory byte

2 048; max. number of modules / submodules 32 kbyte; All inputs are in the process image
32 kbyte; All inputs are in the process image
32 kbyte; All inputs are in the process image
32 kbyte; All outputs are in the process image
8 kbyte
8 kbyte
8 kbyte
8 kbyte
32
20
6; A maximum of 6 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
1
6; A maximum of 6 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
32; CPU + 31 modules
1
the number of connectable PtP CMs is only limited by the number of available slots
Hardware clock
6 wk; At 40 °C ambient temperature, typically
10 s; Typ.: 2 s
16
Yes
Yes
Yes
Yes
4
1
Voc. V1
Yes; X1
2 Vos
Yes
100
Yes
Yes
Yes

D	V 14 00 DD 05 W57 1 1
— Prioritized startup	Yes; Max. 32 PROFINET devices
 Number of connectable IO Devices, max. 	128; In total, up to 256 distributed I/O devices can be connected via PROFIBUS or PROFINET
— Of which IO devices with IRT, max.	64
Number of connectable IO Devices for RT,	128
max.	120
— of which in line, max.	128
 Number of IO Devices that can be 	8
simultaneously activated/deactivated, max.	
Number of IO Devices per tool, max.	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
Update time for IRT	quantity of configured user data
— for send cycle of 250 μs	250 μs to 4 ms; Note: In the case of IRT with isochronous mode, the
ion coma dyolo of 200 pc	minimum update time of 500 µs 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
 With IRT and parameterization of "odd" send 	Update time = set "odd" send clock (any multiple of 125 μ s: 375 μ s, 625
Cycles	μs 3 875 μs)
Update time for RT	250 up to 100 mg
— for send cycle of 250 μs	250 µs to 128 ms
— for send cycle of 500 µs	500 μs to 256 ms 1 ms to 512 ms
— for send cycle of 1 ms	2 ms to 512 ms
for send cycle of 2 msfor send cycle of 4 ms	4 ms to 512 ms
PROFINET IO Device	4 1113 10 312 1113
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes
— Shared device	Yes
 Number of IO Controllers with shared device, 	4
max.	
Interface types	
RJ 45 (Ethernet)	
• 100 Mbps	Yes
 Autonegotiation 	Yes
 Autocrossing 	Yes
Industrial Ethernet status LED	Yes
Protocols	
PROFIsafe	Yes
Number of connections	
Number of connections, max.	128; via integrated interfaces of the CPU and connected CPs / CMs
Number of connections reserved for ES/HMI/web	10
Number of connections via integrated interfaces	88
Number of S7 routing paths Padundancy mode.	16
Redundancy mode Media redundancy	
Media redundancy — MRP	Yes; as MRP redundancy manager and/or MRP client; max. number of
	devices in the ring: 50
Switchover time on line break, typ.	200 ms
— Number of stations in the ring, max.	50
SIMATIC communication	Voc
• S7 communication, as server	Yes
S7 communication, as server S7 communication, as alient	Yes
S7 communication, as client User data per job, may	Yes See online help (\$7 communication, user data size)
User data per job, max. Open IE communication	See online help (S7 communication, user data size)
Opon in communication	

• TCP/IP	Yes
— Data length, max.	64 kbyte
 several passive connections per port, 	Yes
supported	
• 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	100, Ottalidard and door defined pages
MODBUS	Yes; MODBUS TCP
	TOO, INCODES TO
Isochronous mode	Vac
Equidistance	Yes
S7 message functions	
Number of login stations for message functions, max.	32
Program alarms	Yes
Number of configurable program messages, max.	5 000
Number of simultaneously active program alarms	500
Number of program alarms	290
Number of alarms for system diagnostics	100
Number of alarms for motion technology objects	160
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 3 engineering systems
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
	No
Single step	NO
Status/control	V
Status/control variable	Yes
 Variables 	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	
Number of variables, max.— of which status variables, max.	200; per job
 Number of variables, max. — of which status variables, max. — of which control variables, max. 	200; per job 200; per job
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	200; per job
 Number of variables, max. — of which status variables, max. — of which control variables, max. 	
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	200; per job
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing, variables 	200; per job Inputs, outputs
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing, variables Number of variables, max. 	200; per job Inputs, outputs
 Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer 	200; per job Inputs, outputs 200
 Number of variables, max. of which status variables, max. of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer present 	200; per job Inputs, outputs 200 Yes
 Number of variables, max. of which status variables, max. of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. 	200; per job Inputs, outputs 200 Yes 1 000
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. — of which powerfail-proof	200; per job Inputs, outputs 200 Yes 1 000
 Number of variables, max. of which status variables, max. of which control variables, max. Forcing Forcing, variables Number of variables, max. Diagnostic buffer present Number of entries, max. of which powerfail-proof Traces Number of configurable Traces 	200; per job Inputs, outputs 200 Yes 1 000 500
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information	200; per job Inputs, outputs 200 Yes 1 000 500
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED • ERROR LED	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED • ERROR LED • MAINT LED	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED • ERROR LED • MAINT LED • Connection display LINK TX/RX	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED • ERROR LED • MAINT LED	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof Traces • Number of configurable Traces Interrupts/diagnostics/status information Diagnostics indication LED • RUN/STOP LED • ERROR LED • MAINT LED • Connection display LINK TX/RX	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof 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	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof 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	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes Yes Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof 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 • Speed-controlled axis — Number of speed-controlled axes, max.	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof 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 • Speed-controlled axis	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes Yes Yes Yes Yes Yes
Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — of which powerfail-proof 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 • Speed-controlled axis — Number of speed-controlled axes, max.	200; per job Inputs, outputs 200 Yes 1 000 500 4; Up to 512 KB of data per trace are possible Yes Yes Yes Yes Yes Yes Yes Yes Yes

 Synchronized axes (relative gear synchronization) 	
Number of axes, max.	3; Requirement: There must be no other motion technology objects
Estamal accordance	created
External encoders Number of outernal encoders required.	C. Daguiramant. There must be no other mation to charles unbicate
 Number of external encoders, max. 	6; Requirement: There must be no other motion technology objects created
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	
 High-speed counter 	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
 vertical installation, min. 	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	
Programming language	
— LAD	Yes; incl. failsafe
— FBD	Yes; incl. failsafe
— STL	Yes
— SCL	Yes
— GRAPH	Yes
Know-how protection	V
User program protection/password protection	Yes
Copy protection Plack protection	Yes
Block protection Access protection	Yes
Password for display	Yes
Protection level: Write protection	Yes; Specific write protection both for Standard and for Failsafe
Protection level: Read/write protection	Yes
Protection level: Complete protection	Yes
programming / cycle time monitoring / header	
• lower limit	adjustable minimum cycle time
• upper limit	adjustable maximum cycle time
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	430 g
	63

last modified:

11/3/2021