SIEMENS

Data sheet

6ES7516-3FP03-0AB0



SIMATIC S7-1500F, CPU 1516F-3 PN/DP, central processing unit with work memory 3 MB for program and 7.5 MB for data 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS, 6 ns bit performance, SIMATIC Memory Card required ****approvals and certificates according to entry 109817466 at support.industry.siemens.com to be considered! -

General information	
Product type designation	CPU 1516F-3 PN/DP
HW functional status	FS01
Firmware version	V3.0
• FW update possible	Yes
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	Yes; Distributed and central; with minimum OB 6x cycle of 375 μs (distributed) and 1 ms (central)
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V18 (FW V3.0); with older TIA Portal versions configurable as 6ES7516- 3FN02-0AB0
Configuration control	
via dataset	Yes
Display	
Screen diagonal [cm]	6.1 cm
Control elements	
Number of keys	8
Mode buttons	2
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
Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	0.87 A
Current consumption, max.	1.08 A
Inrush current, max.	1.15 A; Rated value
l²t	0.6 A ² ·s
Power	
Infeed power to the backplane bus	12 W
Power consumption from the backplane bus (balanced)	6.7 W
Power loss	
Power loss, typ.	4 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes

Work memory	
Work memory	3 Mbyte
integrated (for program) integrated (for data)	3 Mbyte
integrated (for data)	7.5 Mbyte
Load memory Plug-in (SIMATIC Memory Card), max.	22 Chuto
	32 Gbyte
Backup	Vez
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	6 ns
for word operations, typ.	7 ns
for fixed point arithmetic, typ.	9 ns
for floating point arithmetic, typ.	37 ns
CPU-blocks	
Number of elements (total)	8 000; Blocks (OB, FB, FC, DB) and UDTs
DB	
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.	7.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB
FB	
• Number range	0 65 535
• Size, max.	1 Mbyte
FC	
Number range	0 65 535
• Size, max.	1 Mbyte
OB	
• Size, max.	1 Mbyte
Number of free cycle OBs	100
 Number of time alarm OBs 	20
 Number of delay alarm OBs 	20
 Number of cyclic interrupt OBs 	20; With minimum OB 3x cycle of 250 µs
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	3
 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	
S7 counter	
Number	2 048
Retentivity	
-	Yes
— adjustable	
IEC counter	Any (only limited by the main memory)
Number	Any (only limited by the main memory)
Retentivity	Vee
— adjustable	Yes
S7 times	0.040
• 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
Extended retentive data area (incl. timers, counters, flags), max.	7.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF

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Flag	
• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	o, o clock memory bit, grouped into one clock memory byte
Retentivity adjustable	Yes
	No
Retentivity preset	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	
 Number of subprocess images, max. 	32
Hardware configuration	
Number of distributed IO systems	64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link)
Number of DP masters	
integrated	1
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be
	inserted in total
Number of IO Controllers	
 integrated 	2
• Via CM	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be
Deal	inserted in total
Rack	
Modules per rack, max.	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	3003
Clock	
• Type	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
• to DP, master	Yes
• in AS, master	Yes
• in AS, device	Yes
 on Ethernet via NTP 	Yes
Interfaces	
Interfaces Number of PROFINET interfaces	2
	2 1
Number of PROFINET interfaces	
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface	
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types	1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet)	1 Yes; X1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports	1 Yes; X1 2
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	1 Yes; X1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports	1 Yes; X1 2

	Vaa
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication	Yes; Optionally also encrypted
Web server	Yes
Media redundancy	Yes
PROFINET IO Controller	
Services	
— PG/OP communication	Yes
— Isochronous mode	Yes
— Direct data exchange	Yes; Requirement: IRT and isochronous mode (MRPD optional)
— IRT	Yes
— PROFlenergy	Yes; per user program
— Prioritized startup	Yes; Max. 32 PROFINET devices
 — Number of connectable IO Devices, max. 	256; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET
 — Of which IO devices with IRT, max. 	64
 Number of connectable IO Devices for RT, max. 	256
— of which in line, max.	256
 — Number of IO Devices that can be simultaneously activated/deactivated, max. 	8; in total across all interfaces
- 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 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 375 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 cycles	Update time = set "odd" send clock (any multiple of 125 μs: 375 μs, 625 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
— for send cycle of 4 ms	4 ms to 512 ms
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— IRT	Yes
— PROFlenergy	Yes; per user program
— Shared device	Yes
— Number of IO Controllers with shared device, max.	4
- activation/deactivation of I-devices	Yes; per user program
- Asset management record	Yes; per user program
2. Interface	
Interface types	
• RJ 45 (Ethernet)	Yes; X2
Number of ports	1
integrated switch	No
Protocols	
IP protocol	Yes; IPv4
PROFINET IO Controller	Yes
PROFINET IO Controller PROFINET IO Device	Yes
SIMATIC communication	Yes
Open IE communication Web server	Yes; Optionally also encrypted Yes
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PROFINET IO Controller	
Services	
— PG/OP communication Yes	
— Isochronous mode No	
- Direct data exchange No	
— Prioritized startup No	
 Number of connectable IO Devices, max. 32; In total, up to 1 000 distributed I/O devices can b PROFIBUS or PROFINET 	e connected via AS-i,
- Number of connectable IO Devices for RT, max. 32	
 — of which in line, max. — Number of IO Devices that can be simultaneously 8; in total across all interfaces 	
activated/deactivated, max.	
- Number of IO Devices per tool, max. 8	
— Updating times The minimum value of the update time also depends set for PROFINET IO, on the number of IO devices, configured user data	
Update time for RT	
— for send cycle of 1 ms 1 ms to 512 ms	
PROFINET IO Device	
Services	
— PG/OP communication Yes	
— Isochronous mode No	
- IRT No	
— PROFlenergy Yes; per user program	
- Prioritized startup No	
— Shared device Yes	
- Number of IO Controllers with shared device, max.	
- activation/deactivation of I-devices Yes; per user program	
Asset management record Yes; per user program	
3. Interface	
Interface types	
• RS 485 Yes; X3	
Number of ports	
Protocols	
PROFIBUS DP master Yes	
PROFIBUS DP device No	
SIMATIC communication Yes	
PROFIBUS DP master	
PROFIBUS DP master Number of connections, max. 48; for the integrated PROFIBUS DP interface	
	be connected via AS-i,
 Number of connections, max. max. number of DP devices 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can 	be connected via AS-i,
Number of connections, max. Max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET	be connected via AS-i,
Number of connections, max. Max. number of DP devices Services A8; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services — PG/OP communication Yes	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Equidistance Yes	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Equidistance Isochronous mode Yes	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - PG/OP communication Yes - Equidistance Isochronous mode Yes - activation/deactivation of DP devices Yes Interface types	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - PG/OP communication - Equidistance - Isochronous mode - activation/deactivation of DP devices Yes Interface types RJ 45 (Ethernet)	be connected via AS-i,
 Number of connections, max. Max. number of DP devices Max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Yes Equidistance Isochronous mode Activation/deactivation of DP devices Yes Interface types RJ 45 (Ethernet) 100 Mbps Yes 	be connected via AS-i,
 Number of connections, max. Max. number of DP devices Max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Yes Equidistance Isochronous mode Activation/deactivation of DP devices Yes Interface types RJ 45 (Ethernet) 100 Mbps Autonegotiation Yes 	be connected via AS-i,
 Number of connections, max. Max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Yes Equidistance Isochronous mode Activation/deactivation of DP devices Yes Interface types RJ 45 (Ethernet) 100 Mbps Autonegotiation Yes Yes Yes 	be connected via AS-i,
 Number of connections, max. Max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services PG/OP communication Yes Isochronous mode Yes activation/deactivation of DP devices Interface types RJ 45 (Ethernet) 100 Mbps Autonegotiation Yes Autorossing Industrial Ethernet status LED Yes 	be connected via AS-i,
Number of connections, max. 48; for the integrated PROFIBUS DP interface max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services — PG/OP communication — Equidistance — Equidistance — Isochronous mode — activation/deactivation of DP devices Yes Interface types RJ 45 (Ethernet) 100 Mbps Yes Autonegotiation Yes Autoressing Industrial Ethernet status LED Yes RS 485	be connected via AS-i,
• Number of connections, max.48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINETServices PG/OP communicationYes- EquidistanceYes- Isochronous modeYes- activation/deactivation of DP devicesYesInterface typesRJ 45 (Ethernet)• 100 MbpsYes• AutonegotiationYes• AutorossingYes• Industrial Ethernet status LEDYes• Transmission rate, max.12 Mbit/s	be connected via AS-i,
• Number of connections, max. 48; for the integrated PROFIBUS DP interface • max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - - PG/OP communication Yes - Equidistance Yes - Isochronous mode Yes - activation/deactivation of DP devices Yes Interface types Yes RJ 45 (Ethernet) Yes • 100 Mbps Yes • Autonegotiation Yes • Autoressing Yes • Industrial Ethernet status LED Yes • Transmission rate, max. 12 Mbit/s	be connected via AS-i,
• Number of connections, max. 48; for the integrated PROFIBUS DP interface • max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - - PG/OP communication Yes - Equidistance Yes - lsochronous mode Yes - activation/deactivation of DP devices Yes Interface types - RJ 45 (Ethernet) Yes • Autonegotiation Yes • Industrial Ethernet status LED Yes • Transmission rate, max. 12 Mbit/s Protocols Yes; V2.4 / V2.6	be connected via AS-i,
• Number of connections, max. 48; for the integrated PROFIBUS DP Interface • max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - - PG/OP communication Yes - Equidistance Yes - Isochronous mode Yes - activation/deactivation of DP devices Yes Interface types - RJ 45 (Ethernet) Yes • Autonegotiation Yes • Autorossing Yes • Industrial Ethernet status LED Yes • Transmission rate, max. 12 Mbit/s PROFIsafe Yes; V2.4 / V2.6 Number of connections Yes; V2.4 / V2.6	
• Number of connections, max. 48; for the integrated PROFIBUS DP interface • max. number of DP devices 125; In total, up to 1 000 distributed I/O devices can PROFIBUS or PROFINET Services - - PG/OP communication Yes - Equidistance Yes - activation/deactivation of DP devices Yes - activation/deactivation of DP devices Yes Interface types - RJ 45 (Ethernet) Yes • 100 Mbps Yes • Autonegotiation Yes • Autoressing Yes • Industrial Ethernet status LED Yes • Transmission rate, max. 12 Mbit/s Protocols Yes; V2.4 / V2.6	

 Number of connections via integrated interfaces 	128
Number of S7 routing paths	16
Redundancy mode	
H-Sync forwarding	Yes
Media redundancy	
— Media redundancy	only via 1st interface (X1)
— MRP	Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager; MRP Client
- MRP interconnection, supported	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0
— MRPD	Yes; Requirement: IRT
— Switchover time on line break, typ.	200 ms; For MRP, bumpless for MRPD
- Number of stations in the ring, max.	50
SIMATIC communication	
PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
S7 routing	Yes
Data record routing	Yes
 S7 communication, as server 	Yes
 S7 communication, as client 	Yes
 User data per job, max. 	See online help (S7 communication, user data size)
Open IE communication	
• TCP/IP	Yes
— Data length, max.	64 kbyte
- several passive connections per port, supported	Yes
ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— UDP multicast	Yes; max. 118 multicast circuits
• DHCP	Yes
• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Encryption	Yes; Optional
Web server	
• HTTP	Yes; Standard and user pages
• HTTPS	Yes; Standard and user pages
OPC UA	
Runtime license required	Yes; "Medium" license required
OPC UA Client	Yes; Data Access (registered Read/Write), Method Call
 Application authentication 	Yes
— Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
— User authentication	"anonymous" or by user name & password
- Number of connections, max.	10
 — Number of nodes of the client interfaces, recommended max. 	2 000
 — Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/OPC_I max. 	300
 — Number of elements for one call of OPC_UA_NameSpaceGetIndexList, max. 	20
 — Number of elements for one call of OPC_UA_MethodGetHandleList, max. 	100
 — Number of simultaneous calls of the client instructions for session management, per connection, max. 	1
 Number of simultaneous calls of the client instructions for data access, per connection, max. 	5
- Number of registerable nodes, max.	5 000
 — Number of registerable method calls of OPC_UA_MethodCall, max. 	100
 — Number of inputs/outputs when calling OPC_UA_MethodCall, max. 	20

OPC UA Server	Yes; Data Access (Read, Write, Subscribe), Method Call, Alarms & Condition (A&C), Custom Address Space
 Application authentication 	Yes
— Security policies	available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
— User authentication	"anonymous" or by user name & password
 — GDS support (certificate management) 	Yes
 — Number of sessions, max. 	48
 — Number of accessible variables, max. 	100 000
 — Number of registerable nodes, max. 	20 000
 — Number of subscriptions per session, max. 	50
— Sampling interval, min.	100 ms
— Publishing interval, min.	100 ms
— Number of server methods, max.	50
- Number of inputs/outputs per server method, max.	20
 Number of monitored items, recommended max. 	4 000; for 1 s sampling interval and 1 s send interval
— Number of server interfaces, max.	10 of each "Server interfaces" / "Companion specification" type and 20 of the type "Reference namespace"
 — Number of nodes for user-defined server interfaces. 	30 000
max.	
Alarms and Conditions	Yes
— Number of program alarms	200
- Number of alarms for system diagnostics	100
Further protocols	
MODBUS	Yes; MODBUS TCP
Isochronous mode	
Equidistance	Yes
S7 message functions	
Number of login stations for message functions, max.	64
Program alarms	Yes
Number of configurable program messages, max.	10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH
Number of loadable program messages in RUN, max.	5 000
Number of simultaneously active program alarms	
Number of program alarms	1 000
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
Number of breakpoints	8
Status/control	
Status/control variable	Yes; without fail-safe
Variables	inputs/outputs, bit memories, DBs, peripheral I/Os (without fail-safe), times, counters
Number of variables, max.	
— of which status variables, max.	200; per job
— of which control variables, max.	200; per job
Forcing	
• Forcing	Yes; without fail-safe
• Forcing, variables	peripheral inputs/outputs (without fail-safe)
Number of variables, max.	200
Diagnostic buffer	
• present	Yes
Number of entries, max.	3 200
— of which powerfail-proof	500
Traces	
Number of configurable Traces	4; Up to 512 KB of data per trace are possible
Interrupts/diagnostics/status information	
Diagnostics indication LED	
	Vec
• RUN/STOP LED	Yes

• ERROR LED	Yes
MAINT LED	Yes
STOP ACTIVE LED	Yes
Connection display LINK TX/RX	Yes
Supported technology objects	
Motion Control	Yes; Note: The number of technology objects affects the cycle time of the PLC
	program; selection guide via the TIA Selection Tool
 Number of available Motion Control resources for technology objects 	2 400
 Required Motion Control resources 	
— per speed-controlled axis	40
— per positioning axis	80
— per synchronous axis	160
— per external encoder	80
— per output cam	20
— per cam track	160
— per probe	40
 Positioning axis 	
 — Number of positioning axes at motion control cycle of 4 ms (typical value) 	11
 — Number of positioning axes at motion control cycle of 8 ms (typical value) 	20
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
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
SIL acc. to IEC 61508	SIL 3
Probability of failure (for service life of 20 years and repair time	
- Low demand mode: PFDavg in accordance with	< 2.00E-05
SIL3	
 High demand/continuous mode: PFH in accordance with SIL3 	< 1.00E-09
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-30 °C; No condensation
 horizontal installation, max. 	60 $^\circ\text{C};$ Display: 50 $^\circ\text{C},$ at an operating temperature of typically 50 $^\circ\text{C},$ the display is switched off
 vertical installation, min. 	-30 °C; No condensation
vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
configuration / header	
configuration / programming / header	
Programming language	
— LAD	Yes; incl. failsafe
— FBD	Yes; incl. failsafe
— STL	Yes
— SCL	Yes
— GRAPH	Yes
Know-how protection	
User program protection/password protection	Yes
Copy protection	Yes
	Yes
Block protection Access protection	

 protection of confidential configuration data 	Yes
 Password for display 	Yes
 Protection level: Write protection 	Yes
 Protection level: Read/write protection 	Yes
 Protection level: Write protection for Failsafe 	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	70 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	469 g

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