Data sheet

6ES7516-3AP03-0AB0



SIMATIC S7-1500, CPU 1516-3 PN/DP, central processing unit with 2 MB work memory 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 1516-3 PN/DP
HW functional status	FS01
Firmware version	V3.0
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 6ES7516-3AN02-0AB0
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 A²·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	

• integrated (for program)	2 Mbyte
integrated (for data) integrated (for data)	7.5 Mbyte
Load memory	7.5 Mbyte
Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	02 Object
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 05 505
Number range Size may	0 65 535
• Size, max.	1 Mbyte
FC • Number range	0 65 525
Number range Size, max	0 65 535
• Size, max.	1 Mbyte
• 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
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	
— 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.	

• Size, max.	16 kbyte
Number of clock memories	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
Retentivity adjustable	Yes
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	oz kayte, 7 iii outpute are iii tile process iiilage
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
	o kbyte
per CM/CP	0 khuta
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	20
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
Dools	inserted in total
Rack	22. CDLL 24 modulos
Modules per rack, max.	32; CPU + 31 modules
Number of lines, max. PIP 014	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
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, slave	Yes
on Ethernet via NTP	100
→ OH EUROHIGUVIA NTF	Yes
Interfaces	Yes
Interfaces Number of PROFINET interfaces	
Number of PROFINET interfaces	2
Number of PROFINET interfaces Number of PROFIBUS interfaces	
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface	2
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types	2 1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet)	2 1 Yes; X1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports	2 1 Yes; X1 2
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	2 1 Yes; X1
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch Protocols	2 1 Yes; X1 2 Yes
Number of PROFINET interfaces Number of PROFIBUS interfaces 1. Interface Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	2 1 Yes; X1 2

Yes PROFINET IO Device • 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 Yes; Requirement: IRT and isochronous mode (MRPD optional) - Direct data exchange - IRT - 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 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 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 $250\;\mu\text{s}$ 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 μ s: 375 μ s, 625 μ s ... 3 Update time for RT 250 µs to 128 ms - for send cycle of 250 µs — for send cycle of 500 µs 500 µs to 256 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 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 Yes; IPv4 IP protocol • PROFINET IO Controller Yes PROFINET IO Device Yes • SIMATIC communication Yes • Open IE communication Yes; Optionally also encrypted Web server Yes Media redundancy No

PROFINET IO Controller	
Services	
— PG/OP communication	Yes
— Isochronous mode	No
— Direct data exchange	No
— IRT	No
— PROFlenergy	Yes; per user program
— Prioritized startup	No
 Number of connectable IO Devices, max. 	32; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET
 Number of connectable IO Devices for RT, max. 	32
— of which in line, max.	32
 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 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 Van
— 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
3. Interface	
Interface types	
• RS 485	Yes; X3
 Number of ports 	1
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP slave	No
SIMATIC communication	Yes
PROFIBUS DP master	
Number of connections, max.	48; for the integrated PROFIBUS DP interface
Number of Connections, max. Number of DP slaves, max.	125; In total, up to 1 000 distributed I/O devices can be connected via AS-i,
■ Nullibel Of Dr Sidves, Illax.	PROFIBUS or PROFINET
Services	
— PG/OP communication	Yes
— Equidistance	Yes
•	
— Isochronous mode	Yes
— Activation/deactivation of DP slaves	Yes
Interface types	
RJ 45 (Ethernet)	
• 100 Mbps	Yes
 Autonegotiation 	Yes
 Autocrossing 	Yes
Industrial Ethernet status LED	Yes
RS 485	
Transmission rate, max.	12 Mbit/s
Protocols	
PROFIsafe	No
Number of connections	
	256: via integrated interfaces of the CDLL and connected CDs / CMs
Number of connections, max. Number of connections are an editor. FO (IN) (see high connections).	256; 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 	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	V
• TCP/IP	Yes
— Data length, max.	64 kbyte
— several passive connections per port, supported	Yes
ISO-on-TCP (RFC1006) Data longth, max.	Yes 64 khyto
— Data length, max.■ UDP	64 kbyte
	Yes 2 khyto: 1 472 hytos for LIDB broadcast
— Data length, max. — UDP multicast	2 kbyte; 1 472 bytes for UDP broadcast Yes; max. 118 multicast circuits
DHCP	Yes
• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
• Encryption	Yes; Optional
Web server	res, Optional
• HTTP	Yes; Standard and user pages
• HTTPS	Yes; Standard and user pages
OPC UA	100, Otaliaala alia abbi pagoo
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 authoritication	Yes
Application authentication Security policies	
— 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, max. 	30 000
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 slaves	
Number of simultaneously active program alarms	
Number of simultaneously active program alarms Number of program alarms	1 000
· · · · · · ·	1 000 200
Number of program alarms	
Number of program alarmsNumber of alarms for system diagnostics	200
 Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions	200
 Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects 	200 160
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering)	200 160 Yes; Parallel online access possible for up to 8 engineering systems
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block	200 160 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients)
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step	200 160 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints	200 160 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Status/control	200 160 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8
Number of program alarms Number of alarms for system diagnostics Number of alarms for motion technology objects Test commissioning functions Joint commission (Team Engineering) Status block Single step Number of breakpoints Status/control Status/control variable	200 160 Yes; Parallel online access possible for up to 8 engineering systems Yes; Up to 8 simultaneously (in total across all ES clients) No 8
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Notice Control Motion Control Vers. Notic: The number of Nechnology objects affects the cycle time of the PLC program; selection guide via the 1M Selection fool 2400 **Notice of available Motion Control resources for schronlogy objects **Program Authoric Control resources for schronlogy objects affects the cycle time of the PLC program; selection guide via the 1M Selection fool 2400 **Program Selection guide via the 1M Selection fool 2400 **Program Selection guide via the 1M Selection fool 2400 **Program Selection guide via the 1M Selection fool 2400 **Program Tack 1600 **Program Tack 1600 **Program Tack 1600 **Program Tack 1600 **Program Operation guide via the 1M Selection fool 2400 **Program Operation of program guide via the 1M Selection fool 2400 **Program Selection guide via the 1M Selection fool 2400 **Program Tack 1600 **Program Tack	 Connection display LINK TX/RX 	Yes
Motion Control Vest. Nutr. The number of southockeys objects affects the cycle time of the PLC programs; selection guice via the TTA. Selection Tool		
Number of available Motion Control resources for technology objects - Required Motion Control resources - per speeds controlled asis - per postioning axis - per postioning axis - per outpool com - per outpool positioning axis at motion control cycle of 4 ms (typical value) - Number of positioning axis at motion control cycle of 8 ms (typical value) - Number of positioning axis at motion control cycle of 8 ms (typical value) - Number outpool com - PD, Silep - PD, Compool - PD, Compool - PD, Silep - PD, Temp - Yes, PID controller with integrated optimization for valves - PD, Temp - Yes, PID controller with integrated optimization for temperature - Number outpool com - Number		Yes; Note: The number of technology objects affects the cycle time of the PLC.
technology objects - Required Motion Control resources - per speed controlled axis - per speed controlled axis - per speed controlled axis - per spectronous axis - per spectronous axis - per cuternal erocore - per probe - Positioning axis - Number of positioning axis at motion control cycle of 8 ms (typical value) - Number of positioning axis at motion control cycle - PID_Compact		
Required Motion Control resources — per speed controlled axis — per profesioning axis — per output cam — per grant track — per output cam — per grant track — per probe — Per probe — Per probe — Per probe — Readitioning axis — Number of positioning axes at motion control cycle of 4 ms (fylicial value) — Number of positioning axes at motion control cycle of 8 ms (fylicial value) — Number of positioning axes at motion control cycle of 8 ms (fylicial value) — Number of positioning axes at motion control cycle of 8 ms (fylicial value) — Number of positioning axes at motion control cycle of 8 ms (fylicial value) — PID_Compact — PID_Compact — PID_Compact — PID_Stop — PID_Temp — Yes, PID controller with integrated optimization — PID_Compact — PID_Stop — PID_Temp — Yes, PID controller with integrated optimization for valves — PID_Temp — Yes, PID controller with integrated optimization for valves — PID_Temp — Yes, PID controller with integrated optimization for valves — PID_Compact — PID_Co		2 400
— per speed-controlled axis 0 — per positioning axis 0 — per cotemal ercoder 0 — per coupt cam 2 — per coupt cam 2 — per com track 160 — per poshe 40 • Positioning axis 8 • Number of positioning axes at motion control cycle of 4 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — Number of positioning axes at motion control cycle of 8 ms (typical value) — PID_Compact Yes, Universal PID controller with integrated optimization for valves — PID_Compact Yes, PID controller with integrated optimization for valves — PID_Temp Yes, DID controller with integrated optimization for valves — PID_Temp Yes, DID controller with integrated optimization for valves — PID_Temp Yes, DID controller with integrated optimization for temperature — Number temperature during operation • Notizontal installation, min. 40 °C. No condensation • Notizontal installation, min. 40 °C. Displays 50 °C, at an operating temperature of typically 50 °C, the display is switched off Ambient temperature during storage/transportation • min. 40 °C. Displays 40 °C, at an operating temperature of typically 40 °C, the display is switched off Ambient temperature during storage/transportation • max. 70 °C Ambient demonstration relating to sea level • Installation altitude above sea level, max. 5000 m; Restrictions for installation altitudes > 2000 m; see manual configuration in the adar configuration in the protection Yes — FBD Y		
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- Number of positioning axes at motion control cycle of 8 ms (typical value) Controller • PID_Compact • PID_Compact • PID_Sistep • PID_Temp • Yes, PID controller with integrated optimization for valves • PID_Temp • Yes, PID controller with integrated optimization for valves • PID_Temp Counting and measuring • High-speed counter • Yes Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • horizontal installation, max. • vertical installation, min. • vertical installation and value of v	Number of positioning axes at motion control cycle	11
Controller PID_Compact PID_Compact PID_Sistep PID-Temp P	Number of positioning axes at motion control cycle	20
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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 Ambient conditions Ambient remperature during operation • horizontal installation, min. • horizontal installation, min. • horizontal installation, max. • vertical installation with the protection Password protection • min. • vertical installation attitude above sea level, max. • installation attitude above sea level, max. • installation attitude above sea level, max. • responsibility of the programming language — LAD — FBD — STI. — SCI. — CFC — GRAPH Know-how protection • User program protection/password protection • Yes — GRAPH Know-how protection • User program protection/password protection • Protection level: Write protection • Protection level: Complete protection • Yes • Protection level: Complete protection • Yes • Protection level: Complete protection • Protection level: Complete protection • Protection level: Complete protection • Yes • Protection level: Complete protection • Protection level: Complete protection • Protection level: Mile protection • Protection level: Complete protection • Yes • Protection level: Complete protection • Protection level: Complete protection • Protection level: Complete protection • Yes • User limit • upper limit • Lower limit		Yes; Universal PID controller with integrated optimization
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Counting and measuring		
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display is switched off Ambient temperature during storage/transportation • min. • max. 70 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. • footnot header configuration / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Yes Know-how protection • User program protection/password protection • Block protection • Block protection • Protection of confidential configuration data • Password for display Protection level: Write protection • Protection level: Complete protection • Iower limit • Uoper limit •		
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configuration / programming / header Programming language — LAD Yes — FBD Yes — STL Yes — SCL Yes — CFC Yes — GRAPH Yes Know-how protection • User program protection/password protection Yes • Block protection Yes Block protection • protection of confidential configuration data Yes • Password for display Yes • Protection level: Write protection Yes • Protection level: Read/write protection Yes • Protection level: Complete protection Yes programming / cycle time monitoring / header • lower limit adjustable maximum cycle time • Uses monitoring / header • lower limit adjustable maximum cycle time • Uses maximum cycle time • Uses maximum cycle time • Uses maximum cycle time • User programming / cycle time adjustable maximum cycle time		
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vviour /U mm		70 mm
	vviuui	7 U IIIIII

Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	469 g

last modified: 10/6/2023 🖸