SIEMENS

Data sheet

6ES7516-3AN02-0AB0



SIMATIC S7-1500, CPU 1516-3 PN/DP, central processing unit with 1 MB work memory for program and 5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS, 10 ns bit performance, SIMATIC Memory Card required

General information	
Product type designation	CPU 1516-3 PN/DP
HW functional status	FS01
Firmware version	V2.9
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	V17 (FW V2.9) / V16 (FW V2.8) or higher; with older TIA Portal versions configurable as 6ES7516-3AN01-0AB0
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)	0.85 A
Current consumption, max.	1.1 A
Inrush current, max.	2.4 A; Rated value
l²t	0.02 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.	7 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes
Work memory	

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Extended retentive data area (incl. timers, counters, flags), max. 5 Mbyte; When using PS 6 0W 24/48/60 V DC HF		
Flag	Extended retentive data area (incl. timers, counters, flags), max.	
	Flag	

• 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	
	22 khyte: All inpute are in the presses image
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
Daak	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	
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
• to DP, master	Yes
• in AS, master	Yes
• in AS, slave	Yes
on Ethernet via NTP	Yes
Interfaces	
	2
Number of PROFINET interfaces	2
Number of PROFIBUS interfaces	1
1. Interface	
Interface types	
RJ 45 (Ethernet)	Yes; X1
 Number of ports 	2
 integrated switch 	Yes
Protocols	
IP protocol	Yes; IPv4
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 $\mu s)$
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 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
— 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	
3. Interface	
Interface types	
Interface types • RS 485	Yes; X3
Interface types • RS 485 • Number of ports	Yes; X3 1
Interface types • RS 485 • Number of ports Protocols	1
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master	1 Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave	1 Yes No
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication	1 Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master	1 Yes No Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max.	1 Yes No Yes 48; for the integrated PROFIBUS DP interface
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max.	1 Yes No Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. Services	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. Services — PG/OP communication	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services — PG/OP communication — Equidistance — Isochronous mode	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes
Interface types	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet)	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing	1 Yes A8; for the integrated PROFIBUS DP interface A8; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Interface types	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED RS 485	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED RS 485 • Transmission rate, max.	1 Yes A8; for the integrated PROFIBUS DP interface A8; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes Yes Yes Yes Yes Yes Yes
Interface types	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes
Interface types	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED RS 485 • Transmission rate, max. Protocols PROFIsafe Number of connections	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes No
Interface types	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; in total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes Yes
Interface types • RS 485 • Number of ports Protocols • PROFIBUS DP master • PROFIBUS DP slave • SIMATIC communication PROFIBUS DP master • Number of connections, max. • Number of DP slaves, max. • Number of DP slaves, max. Services - PG/OP communication - Equidistance - Isochronous mode - Activation/deactivation of DP slaves Interface types RJ 45 (Ethernet) • 100 Mbps • Autonegotiation • Autocrossing • Industrial Ethernet status LED RS 485 • Transmission rate, max. Protocols PROFIsafe Number of connections	1 Yes No Yes 48; for the integrated PROFIBUS DP interface 125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET Yes No

• Number of \$7 routing nothe	16
Number of S7 routing paths Redundancy mode	10
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 MRPD 	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0 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
— bata length, max. — several passive connections per port, supported	Yes
ISO-on-TCP (RFC1006) Date length max	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	2 kbyte; 1 472 bytes for UDP broadcast
— UDP multicast	Yes; Max. 5 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
— 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	100
OPC_UA_MethodCall, max. — Number of inputs/outputs when calling OPC_UA_MethodCall, max.	20
OPC UA Server	Yes; Data access (read, write, subscribe), method call, custom address space

Application of the structure	Voo
Application authentication	Yes Available segurity policies: None Pacie129Pac15, Pacie256Pac15
— Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
- 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.	20
— Sampling interval, min.	100 ms
— Publishing interval, min.	200 ms
— Number of server methods, max.	50
 Number of server methods, max. Number of inputs/outputs per server method, max. 	20
 Number of impuls/outputs per server metricul, max. Number of monitored items, recommended max. 	2 000; for 1 s sampling interval and 1 s send interval
 Number of monitored name, recommended max. Number of server interfaces, max. 	10 of each "Server interfaces" / "Companion specification" type and 20 of the
— Number of Server Interfaces, max.	type "Reference namespace"
 — Number of nodes for user-defined server interfaces, max. 	5 000
Alarms and Conditions	Yes
Number of program alarms	200
— Number of program alarms — Number of alarms for system diagnostics	100
Further protocols	
MODBUS	Yes; MODBUS TCP
	res, modbus top
Isochronous mode	Vee
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
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.	
- of which status variables, max.	200; per job
— of which control variables, max.	200; per job
Forcing	
Forcing	Yes
Forcing Forcing, variables	Peripheral inputs/outputs
 Forcing, variables Number of variables, max. 	200
Number of variables, max. Diagnostic buffer	
	Vac
present Number of optrios, max	Yes
Number of entries, max.	3 200
— of which powerfail-proof Traces	500
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
STOP ACTIVE LED	Yes

• Venice of available Advances 198 Motion Control Yes • Number of available Advances for exchanges graded Yes • Number of available Advances 2400 • Per per spectromous asis 80 - per spectromous asis 160 - Number of postering asis at motion control cycle 7 - Number of postering asis at motion control cycle 14 Controller Yes - Per spectromous asis Yes - Per spectromous asis Yes - Per spectromous asis Yes - Number of postering asis at motion control cycle 14 Controller Yes - Pho Compact Yes - Pho Compact Yes - Pho Compact Yes	 Connection display LINK TX/RX 	Yes
Motion Control Ves. Note: The number of herbroky signed alleres the cycle time of the PLC program: selection guess was the TLA. Selection Tool. • Number of available Motion Control resources for technology objects. • Required Motion Control resources for technology objects. 2000 • Per positioning asis #0 90 • per positioning asis #0 • Per object 40 • Per object #0 • Per object #10 • Protocorus asis at motion control oppedie • Pion Compact Ves		
Number of available Motion Control resources for technology objects Por spect-controlled axis Por spect-controller with integrated optimization Por sp		Yes: Note: The number of technology objects affects the cycle time of the DLC
• Number of available Notion Control resources for totombody objects 2.400 • Required Motion Control resources 0 - per perdecontrol data 0 - per perdecontrol data 0 - per perdecontrol data 00 - per perdecontrol data 00 - per output can 00 - per probe 40 • Positioning axis 10 - without of opationing axis at motion control cycle of 4 ms (tyclat value) 7 • PID_Step Yes; Universal PID controller with integrated optimization • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PID controller with integrated optimization for values • PID_Step Yes; PiD controller with integrated optim		
Perspansion Median Control resources Perspansion Median Control resources Perspansion Median Control resources Perspansion Perspective Perspectiv		
- per speek-conclude axis 40 - per synchronous axis 160 - per external encoder 80 - per external encoder 80 - per external encoder 80 - per external encoder 80 - per cart track 160 - per cart	technology objects	
- per particular paris 80 - per synchronous axis 100 - per output cam 20 - per output cam 20 - per an track 180 - per probe 40 Persteining axis 7 - Awneber of posticining axis at motion control cycle of 4 ms (typical value) 7 - Awneber of posticining axis at motion control cycle of 9 ms (typical value) 7 - Wintber of posticining axis at motion control cycle of 9 ms (typical value) 7 - Output and measuring - PiD_Compact Yes; Universal PID controller with integrated optimization integrated optimization for valves - PID_temp Yes; PID controller with integrated optimization integrated optimization for temperature of Controll and measuring - PiD_temp Yes; PID controller with integrated optimization integrated optimization into integrated optimization into integrated optimization into integrated optimization into into integrated optimization into into integrated optimization into integrated optimization into into integrated optimization into into into into into into into	 Required Motion Control resources 	
	— per speed-controlled axis	40
- per output cam per cational encoder per output cam per cational encoder per output cam per cational encoder per output cam per probe per per probe per probe per per probe per per probe per per probe per	— per positioning axis	80
- per output cam 20 - per cam track 160 - per cam track 40 - Postitioning axis 7 - Muther of postitioning area at motion control cycle 7 - Muther of postitioning area at motion control cycle 7 - Muther of postitioning area at motion control cycle 14 - Octorolier 14 - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Temp Yes; PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; Universal PID controlier with integrated optimization for valves - PUD_Compact Yes; - PUD_Compact Yes; - PUD_Compact Yes; - PUD_Co	— per synchronous axis	160
- ber cam track 40 - per probe 40 Postconing axis 40 - Number of postconing axes at motion control cycle of 4 ms (kyclat value) - Number of postconing axes at motion control cycle of 8 ms (kyclat value) - Number of postconing axes at motion control cycle of 9 ms (kyclat value) - Number of postconing axes at motion control cycle of 9D_3Step - PID_Compat - PID_Compat - PID_Step - PID_Compat - PID_Step - PID_s	— per external encoder	80
	— per output cam	20
Positioning axis	— per cam track	160
Number of positioning axes at motion control cycle 7 Number of positioning axes at motion control cycle 14 Controller 14	— per probe	40
Number of positioning axes at motion control cycle 7 Number of positioning axes at motion control cycle 14 Controller 14	Positioning axis	
of 8 ms (typical value) Controller • PID_Compact Yes; Universal PID controller with integrated optimization for valves • PID_Tamp Yes; PID controller with integrated optimization for temperature Counting and measuring Yes; PID controller with integrated optimization for temperature Counting and measuring Yes; PID controller with integrated optimization for temperature Ambient conditions Yes Antibent temperature during operation 60 °C; Display; 50 °C; at an operating temperature of typically 50 °C; the display is switched off • horizontal installation, min. -25 °C; No condensation • vertical installation, max. 40 °C; Display; 40 °C; at an operating temperature of typically 40 °C; the display is switched off • wertical installation, min. -40 °C • wertical installation, max. 5000 m; Restrictions for installation altitudes > 2 000 m, see manual configuration / header - • installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual configuration / header - configuration / header Yes - FaD Yes - Sol, Yes - Sol, Yes - GRAPH Yes		7
• PID_Compact • PID_Step Yes; Universal 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 temperature Counting and measuring • PID-Temp Yes; PID controller with integrated optimization for temperature / PID-Temp Yes; PID controller with integrated optimization for temperature // PID-Temp // Yes; PID-controller with integrated optimization for temperature // PID-Temp // Yes; PID-controller with integrated optimization for temperature // PID-Temp // Yes		14
• PID_Step Yes: PID controller with integrated optimization for valves • PID_Temp Yes: PID controller with integrated optimization for temperature • High-speed counter Yes Amblent temperature during operation -25 °C; No condensation • horizontal installation, min. -25 °C; No condensation • horizontal installation, min. -25 °C; No condensation • vertical installation, max. 60 °C; Display, 50 °C; at an operating temperature of typically 50 °C, the display is switched off • vertical installation, max. -25 °C; No condensation • vertical installation, max. -27 °C; No condensation • vertical installation, max. -27 °C; No condensation • vertical installation, max. -27 °C; No condensation • vertical installation, max. -0 °C • orink -40 °C • nax. 70 °C Anthetemperature during operation relating to sea level -0 °C • nax. 5000 m; Restrictions for installation attitudes > 2 000 m; see manual configuration / header - origination / header Yes - SRL Yes - SRD Yes - SRPH Yes - SRAPH	Controller	
• PID-Temp Yes; PID controller with integrated optimization for temperature Counting and measuring • • Infigh-speed counter Yes Ambient conditions - Ambient conditions - Ambient conditions - • Inforzontal installation, min. -25 °C; No condensation • Inforzontal installation, min. -25 °C; No condensation • vertical installation, min. -25 °C; No condensation • vertical installation, max. 40 °C; Display: 50 °C, at an operating temperature of typically 40 °C, the display is switched off Ambient temperature during storage/transportation -40 °C • inax. 70 °C Altitude during operation relating to sea level 500 m; Restrictions for installation altitudes > 2000 m; see manual ofinfiguration / header - Programming language - - LAD Yes - SCL Yes - GRAPH Yes • lock protection Yes • orgeramming language - - LAD Yes - SCL Yes - SRAPH Yes	PID_Compact	Yes; Universal PID controller with integrated optimization
Counting and measuring Yes Ambient conditions Yes Ambient temperature during operation -25 °C; No condensation horizontal installation, min. obtoint installation, max. do °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off vertical installation, max. do °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off min. -25 °C; No condensation min. -40 °C min. -40 °C min. -40 °C No condensation Mitude 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 Forgramming language -LAD Yes -SCL Yes -SCL Yes Now-how protection Yes Access protection Yes Access protection Yes Protection lev	PID_3Step	Yes; PID controller with integrated optimization for valves
High-speed counter Yes Ambient conditions	PID-Temp	Yes; PID controller with integrated optimization for temperature
High-speed counter Yes Ambient conditions	•	
Ambient conditions Ambient conditions • horizontal installation, min. • horizontal installation, max. • birzontal installation, max. • vertical installation, min. • vertical installation, max. • vertical installation installation, max. • notack • or notack • or notack • or notack		Yes
Ambient temperature during operation -25 °C; No condensation horizontal installation, min. horizontal installation, max. evertical installation and the above seal evel evertical installation relating to seal evel evertical installation relating to seal evel evertical installation relating to header Programming language LAD Yes SCL Yes SCL Yes Scl program protection/password protection Yes Protection evel: Write protection Yes Protection fervial configuration data Yes Protection level: Write protection Yes Protection level: Write protection Yes<		
• horizontal installation, min. -25 °C; No condensation • horizontal installation, max. 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off • vertical installation, max. 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off • 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 -40 °C • max. 70 °C Antibute during operation relating to sea level -0 °C • installation altitude above sea level, max. 5000 m; Restrictions for installation altitudes > 2 000 m, see manual configuration / header - configuration / programming / header - Programming language - - FBD Yes - SCL Yes - GRAPH Yes • Orgoramming protection/password protection Yes • Disck protection Yes • Protection fewel: Write protection Yes • Protection level: Write protection Yes • Protection level: Write protection Yes - SCL Yes • Protection level: Write		
• horizontal installation, max. 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off • vertical installation, mix. -25 °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 -40 °C • min. -40 °C • max. 70 °C Altitude during operation relating to sea level, max. 500 on; Restrictions for installation altitudes > 2 000 m, see manual configuration / header - Programming language - - FBD Yes - STL Yes - SCL Yes - GRAPH Yes Ves - - Block protection Yes - Protection fewei: Write protection Yes - Protection levei: Write protection Yes - Protection levei:		-25 °C' No condensation
display is switched off display is switched off • vertical installation, min. -25 °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 -40 °C • min. -40 °C • max. 70 °C Attitude 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 / beader - Programming language - - FBD Yes - SCL Yes - SCL Yes - GRAPH Yes Ves - - GRAPH Yes • Disck protection/password protection Yes • Disck protection of confidential configuration data Yes • Protection level: Write protection Yes • Protection level: Write protection Yes • Protection level: Complete protection Yes • Protectio		
• 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 -40 °C • max. 70 °C Attuide 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 - renderation / programming / header - Programming language - - LAD Yes - SCL Yes - SCL Yes - GRAPH Yes • User program protection/password protection Yes • Discloping relation of configuration data Yes • Protection of configuration data Yes • Protection of configuration data Yes • Protection levei: Kombele protection Yes • Protection levei: Complete protection Yes • Protection levei: Complete protection Yes • Disk protection Yes • Protection levei: Read/write protection Yes • Protection levei: Complete protection <td></td> <td></td>		
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 / heador - configuration / programming / header - - LAD Yes - FBD Yes - SCL Yes - SCR Yes - GRAPH Yes User program protection/password protection Yes e Book protection Yes e Password for display Yes e Protection levei: Write protection Yes e Protection levei: Read/write protection Yes e Protection levei: Read/write protection	 vertical installation, min. 	-25 °C; No condensation
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 / heador - configuration / programming / header - - LAD Yes - FBD Yes - SCL Yes - SCR Yes - GRAPH Yes User program protection/password protection Yes e Book protection Yes e Password for display Yes e Protection levei: Write protection Yes e Protection levei: Read/write protection Yes e Protection levei: Read/write protection	 vertical installation, max. 	
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● Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual configuration / header Programming language - LAD Yes - FBD Yes - STL Yes - SCL Yes - GRAPH Yes Woser program protection/password protection Yes Opy protection Yes Block protection Yes Protection for of confidential configuration data Yes Protection for display Yes Protection level: Read/write protection Yes Protection level: Complete protection Yes Protection level: Complete protection Yes Protection level: Write protection Yes Protection level: Complete protection Yes Protection level: Read/write protection Yes Protection level: Read/write protection Yes Protection level: Read/write protection Yes Protection level: Complete protection Yes Protection level: Read/write protection Yes Protection level: Complete protection Yes Protection level	• max.	70 °C
configuration / header Programming language -LAD Yes -FBD Yes -FBD Yes -STL Yes -GRAPH Yes Wes program protection/password protection Yes •User program protection/password protection Yes •Block protection Yes •Detection Yes •Block protection Yes •Protection for Yes •Protection Yes •Protection Yes •Protection for Yes •Protection level: Write protection Yes •Protection level: Write protection Yes •Protection level: Complete protection Yes •Prot	Altitude during operation relating to sea level	
configuration / programming / header Programming language - LAD Yes - FBD Yes - STL Yes - SCL Yes - GRAPH Yes Width 70 mm	 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Programming language - LAD Yes - FBD Yes - STL Yes - SCL Yes - GRAPH Yes Know-how protection/password protection Yes Copy protection Yes 0 User program protection/password protection Yes Access protection Yes Protection of confidential configuration data Yes Protection level: Write protection Yes Protection level: Complete protection Yes Protection level: Complete protection Yes Protection level: Complete protection Yes Immansion / vecite immonitoring / header Immansion Uswer limit adjustable minimum cycle time upper limit adjustable maximum cycle time Width 70 mm	configuration / header	
- LADYes- FBDYes- STLYes- SCLYes- GRAPHYesKnow-how protectionYes• User program protection/password protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Protection of confidential configuration dataYes• protection of confidential configuration dataYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Diver limitadjustable minimum cycle time• upper limitadjustable maximum cycle time• Width70 mm	configuration / programming / header	
- FBDYes- STLYes- SCLYes- GRAPHYesMow-how protectionYes- User program protection/password protectionYes- Copy protectionYes- Block protectionYes- Block protectionYes- Protection of confidential configuration dataYes- Protection of confidential configuration dataYes- Protection level: Write protectionYes- Protection level: Write protectionYes- Protection level: Write protectionYes- Protection level: Complete protectionYes- Protection level: Complete protectionYes- InversionsYes- InversionsAdjustable minimum cycle time- Upper limitadjustable maximum cycle time- Width70 mm	Programming language	
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STLYes SCLYes GRAPHYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protection of confidential configuration dataYes• protection of confidential configuration dataYes• protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Iower limitadjustable minimum cycle time• upper limitadjustable maximum cycle time• Uth70 mm	— FBD	Yes
SCL GRAPHYesKnow-how protectionYes•User program protection/password protectionYes•Copy protectionYes•Block protectionYes•Block protectionYes•protection of confidential configuration dataYes•protection for displayYes•Protection level: Write protectionYes•Protection level: Write protectionYes•Protection level: Complete prote		
GRAPHYesKnow-how protectionYes• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Block protectionYes• Access protectionYes• protection of confidential configuration dataYes• Password for displayYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Diver limitadjustable minimum cycle time• upper limitadjustable maximum cycle time• Uter limitadjustable maximum cycle time• Width70 mm		
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• User program protection/password protectionYes• Copy protectionYes• Block protectionYes• Access protectionYes• protection of confidential configuration dataYes• Password for displayYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• programming / cycle time monitoring / headeradjustable minimum cycle time• lower limitadjustable maximum cycle time• upper limitadjustable maximum cycle time• Width70 mm		
• Copy protectionYes• Block protectionYesAccess protectionYes• protection of confidential configuration dataYes• Password for displayYes• Protection level: Write protectionYes• Protection level: Write protectionYes• Protection level: Read/write protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• Protection level: Complete protectionYes• programming / cycle time monitoring / headeradjustable minimum cycle time• upper limitadjustable maximum cycle time• upper limit70 mm	· · ·	Yes
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programming / cycle time monitoring / header • lower limit adjustable minimum cycle time • upper limit adjustable maximum cycle time Dimensions 70 mm	-	
• lower limit adjustable minimum cycle time • upper limit adjustable maximum cycle time Dimensions 70 mm	· · · · ·	res
• upper limit adjustable maximum cycle time Dimensions 70 mm		
Dimensions Width 70 mm		
Width 70 mm		adjustable maximum cycle time
	Dimensions	
Height 147 mm		70 mm
	Height	147 mm

Depth	129 mm
Weights	
Weight, approx.	845 g
last modified:	3/12/2024 🖸

last modified:

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