6ES7518-4FX00-1AC0

Data sheet



SIMATIC S7-1500F, CPU Bundle consisting of: CPU 1518F-4 PN/DP MFP (6ES7518-4FX00-1AB0), including C/C++ Runtime and OPC UA Runtime license, 9 MB work memory for program and 60 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFINET basic services, 4th interface: PROFIBUS, 1 ns bit performance, SIMATIC Memory Card (min. 2 GB) required

General information	
Product type designation	CPU 1518F-4 PN/DP MFP
HW functional status	FS03
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 $125~\mu s$ (distributed) and $1~ms$ (central)
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	V17 (FW V2.9) / V15 (FW V2.5) or higher
Configuration control	
via dataset	Yes
Display	
Screen diagonal [cm]	6.1 cm
Control elements	
Number of keys	6
Mode selector switch	1
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Repeat rate, min.	1/s
Input current	
Current consumption (rated value)	1.7 A
Current consumption, max.	2 A
Inrush current, max.	2.7 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)	35 W
Power loss	
Power loss, typ.	29 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes

Work memory	
integrated (for program)	9 Mbyte
• integrated (for data)	60 Mbyte
integrated (for CPU function library of CPU Runtime)	50 Mbyte; Note: The "CPU function library of the CPU" are C/C++ blocks for the user program that were created using the SIMATIC ODK 1500S or Target 1500S.
Working memory for additional functions	
 Integrated (for C/C++ Runtime application) 	512 Mbyte
available (for Linux runtime application)	1 Gbyte
Load memory	
Plug-in (SIMATIC Memory Card), max.	32 Gbyte; the memory card must have at least 2 GB of space on it
Backup	
maintenance-free	Yes
CPU processing times	
for bit operations, typ.	1 ns
for word operations, typ.	2 ns
for fixed point arithmetic, typ.	2 ns
for floating point arithmetic, typ.	6 ns
CPU-blocks	
Number of elements (total)	20 000; 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.	16 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 Failsafe, two RTGs with one "Cyclic interrupt OB" or one "Free cycle OB" (F-OB) each are possible
 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
•	1
 Number of diagnostic alarm OBs 	•
Number of diagnostic alarm OBs Nesting depth	
	24
Nesting depth	
Nesting depth • per priority class	
Nesting depth • per priority class Counters, timers and their retentivity	
Nesting depth • per priority class Counters, timers and their retentivity S7 counter	24
Nesting depth • per priority class Counters, timers and their retentivity S7 counter • Number	24
Nesting depth • per priority class Counters, timers and their retentivity S7 counter • Number Retentivity — adjustable IEC counter	24 2 048 Yes
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Nesting depth • per priority class Counters, timers and their retentivity S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity	2 048 Yes Any (only limited by the main memory)
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Nesting depth • per priority class Counters, timers and their retentivity S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times	24 2 048 Yes Any (only limited by the main memory) Yes
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Nesting depth • per priority class Counters, timers and their retentivity S7 counter • Number Retentivity — adjustable IEC counter • Number Retentivity — adjustable S7 times	24 2 048 Yes Any (only limited by the main memory) 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.	768 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 700 KB
Extended retentive data area (incl. timers, counters, flags), max.	20 Mbyte; When using PS 6 0W 24/48/60 V DC HF
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	16 384; 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 najto, na outputo di o in tilo processi inage
— Inputs (volume)	32 kbyte; max. 32 KB via X1; max. 8 KB via X2 or X4
Outputs (volume)	32 kbyte; max. 32 KB via X1; max. 8 KB via X2 or X4
per CM/CP	32 RDyte, max. 32 RD via X1, max. 6 RD via X2 of X4
— Inputs (volume)	9 khyto
— Outputs (volume)	8 kbyte
	8 kbyte
Subprocess images	32
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 inserted in total
Rack	00 OPIL : 04
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	
• 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	10 0, 1yp 2 0
Number	16
	10
Clock synchronization	Voc
supported	Yes
• •	Vaa
• to DP, master	Yes
• •	Yes Yes

Interfaces Number of PROFINET interfaces 3 1 1 1 1 1 1 1 1 1
Number of PROFIBUS interfaces
Interface Interface types • RJ 45 (Ethernet) Yes; X1 • Number of ports 2 • integrated switch Yes Profocols • IP protocol • PROFINET IO Controller Yes • SIMATIC communication Yes; Optionally also encrypted • Web server Yes • Media redundancy Yes; MRP Automanager according to IEC 62439-2 Edition 2.0 PROFINET IO Controller Services - PG/OP communication Yes; Optionally also encrypted Yes • Media redundancy Yes; MRP Automanager according to IEC 62439-2 Edition 2.0 PROFINET IO Controller Services - PG/OP communication Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes - Direct data exchange Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes - PROFlenergy Yes; per user program Yes; per user program Yes; Max. 32 PROFINET devices - Simultaneously activated deactivated, max Of which IO devices with IRT, max Of which in line, max Number of connectable IO Devices for RT, max Number of IO Devices that can be simultaneously activated deactivated, max Number of IO Devices per tool, max 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 125 µs 125 µs
R.J. 45 (Ethernet)
• RJ 45 (Ethernet) • Number of ports • integrated switch Protocols • iP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy • PROFINET IO Controller Services - PG/OP communication - Isochronous mode - Direct data exchange - PROFlenergy - Prioritized startup - Number of connectable IO Devices, max Of which IO devices with IRT, max Of which In line, max Number of IO Devices that can be simultaneously activated/deactivated, max Updating times - Ves - V
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• integrated switch Yes Protocols • IP protocol • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy • PROFINET IO Controller Services - PG/OP communication - Isochronous mode - Direct data exchange - Direct data exchange - IRT - PROFIenergy - Prioritized startup - Number of connectable IO Devices, max. - Of which IO devices with IRT, max Number of IO Devices that can be simultaneously activated/deactivated, max Number of IO Devices per tool, max Updating times • IRT - For send cycle of 125 µs - Ves; IPv4 - Yes - Yes - Yes - Yes - Yes - Of which IO devices per tool, max Ten inimum 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
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 • IP protocol • PROFINET IO Controller • PROFINET IO Device • SIMATIC communication • Open IE communication • Web server • Media redundancy POFINET IO Controller POFINET IO Controller Services - PG/OP communication - Isochronous mode - Direct data exchange - PROFIenergy - PROFIenergy - Proirtized startup - Number of connectable IO Devices, max. - Of which IO devices with IRT, max. - Number of connectable IO Devices for RT, max. - Number of IO Devices that can be simultaneously activated/deactivated, max. - Number of IO Devices per tool, max. - Updating times Yes; IPv4 Yes Yes Yes Optionally also encrypted Yes Yes; Optionally also encrypted Yes Yes Yes Yes Yes Yes Yes Requirement: IRT and isochronous mode (MRPD optional) Yes
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Services - PG/OP communication - Isochronous mode - Direct data exchange - Direct data exchange - IRT - PROFlenergy - Prioritized startup - Number of connectable IO Devices, max Of which IO devices with IRT, max Number of connectable IO Devices for RT, max Of which in line, max Of which in line, max Number of IO Devices that can be simultaneously activated/deactivated, max Updating times Services Yes Yes Yes Yes Yes Yes Yes
PG/OP communication Isochronous mode Direct data exchange PROFlenergy PROFlenergy Prioritized startup Number of connectable IO Devices, max. Of which IO devices with IRT, max. Number of connectable IO Devices for RT, max. Of which in line, max. Number of IO Devices that can be simultaneously activated/deactivated, max. Update time for IRT PROFINET Yes Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes Yes Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes Yes Yes Yes; Requirement: IRT and isochronous mode (MRPD optional) Yes Yes Yes Yes Yes Yes Yes Ye
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Update time for IRT — for send cycle of 125 μs 125 μs
— for send cycle of 125 μs
— for send cycle of 187.5 μs 187.5 μs
— for send cycle of 250 μs 250 μs to 4 ms
— for send cycle of 500 μs 500 μs to 8 ms
— for send cycle of 1 ms 1 ms to 16 ms
— for send cycle of 2 ms 2 ms to 32 ms
— for send cycle of 4 ms 4 ms to 64 ms
— With IRT and parameterization of "odd" send Update time = set "odd" send clock (any multiple of 125 μs: 375 μs, 625
cycles μs 3 875 μs) Update time for RT
·
— for send cycle of 250 μs — 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; Minimum send cycle of 250 μs
— PROFlenergy Yes; per user program
— Shared device Yes

max.	
 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.	128; 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. 	128
— of which in line, max.	128
Number of IO Devices that can be	8; in total across all interfaces
simultaneously activated/deactivated, max.	o, 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	quantity of configured user data
— for send cycle of 1 ms	1 ms to 512 ms
PROFINET IO Device	1 110 10 0 12 110
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,	4
max.	
 activation/deactivation of I-devices 	Yes; per user program
Asset management record	Yes; per user program
3. Interface	
Interface types	
• RJ 45 (Ethernet)	Yes; X3
 Number of ports 	1; C/C++ Runtime can also be reached via this port
integrated switch	No
Protocols	
IP protocol	Yes; IPv4
 PROFINET IO Controller 	No
PROFINET IO Device	No
 SIMATIC communication 	Yes
Open IE communication	Yes
Web server	Yes

4. Interface	
Interface types	
• RS 485	Yes; X4
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 DP slaves, max.	125; In total, up to 1 000 distributed I/O devices can be connected via AS-i, 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
• 1000 Mbps	Yes; Only possible at the X3 interface of the CPU 1518
 Autonegotiation 	Yes
 Autocrossing 	Yes
 Industrial Ethernet status LED 	Yes
RS 485	
 Transmission rate, max. 	12 Mbit/s
Protocols	
PROFIsafe	Yes
Number of connections	
Number of connections, max.	384; 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 	320
 Number of S7 routing paths 	64; in total, only 16 S7-Routing connections are supported via PROFIBUS
Redundancy mode	
H-Sync forwarding	Yes
Media redundancy	
— Media redundancy	only via 1st interface (X1)
— MRP	Yes; as MRP redundancy manager and/or MRP client
 MRP interconnection, supported 	Yes; as ring node according to IEC 62439-2 Edition 2.0
— 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	
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; 128 multicast circuits (of which max. 5 via X1)
• DHCP	Yes
-	

• DNS	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Encryption	Yes; Optional
/eb server	
• HTTP	Yes; Standard and user pages
• HTTPS	Yes; Standard and user pages
PC UA	Too, Clarical a circ acci pages
Runtime license required	Yes; "Large" license required
OPC UA Client	Yes
	Yes
— Application authentication	
— Security policies	Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256
User authentication	"anonymous" or by user name & password
— Number of connections, max.	40
 Number of nodes of the client interfaces, max. 	5 000
 Number of elements for one call of OPC_UA_NodeGetHandleList/OPC_UA_ReadList/C 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 per connection (except OPC_UA_ReadList,OPC_UA_WriteList,OPC_UA_M max. 	1
Number of simultaneous calls of the client instructions OPC_UA_ReadList,OPC_UA_WriteList and OPC_UA_MethodCall, 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, custom addresspace
 Application authentication 	Yes
— 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.	64
Number of accessible variables, max.	200 000
Number of registerable nodes, max.	50 000
Number of registerable rodes, max. Number of subscriptions per session, max.	20
Sampling interval, min.	10 ms
	10 ms
— Publishing interval, min.	
 Number of server methods, max. Number of inputs/outputs per server method, 	100 20
Max.	10,000; for 1 a compling interval and 1 a conditional
Number of monitored items, max.	10 000; 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	100
Number of alarms for system diagnostics	50
urther protocols	
	Yes; MODBUS TCP

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	4 000
 Number of alarms for system diagnostics 	1 000
 Number of alarms for motion technology objects 	480
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 10 engineering systems
Status block	Yes; Up to 16 simultaneously (in total across all ES clients)
Single step	No
Number of breakpoints	20
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	1 000
Traces	
Number of configurable Traces	8; 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
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	15 360
Required Motion Control resources	
 Required Motion Control resources per speed-controlled axis 	40
 Required Motion Control resources — per speed-controlled axis — per positioning axis 	40 80
 Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis 	40 80 160
 Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis — per external encoder 	40 80 160 80
 Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis — per external encoder — per output cam 	40 80 160 80 20
 Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis — per external encoder — per output cam — per cam track 	40 80 160 80 20 160
 Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis — per external encoder — per output cam — per cam track — per probe 	40 80 160 80 20
 Required Motion Control resources per speed-controlled axis per positioning axis per synchronous axis per external encoder per output cam per cam track per probe Positioning axis Number of positioning axes at motion control 	40 80 160 80 20 160
 Required Motion Control resources per speed-controlled axis per positioning axis per synchronous axis per external encoder per output cam per cam track per probe Positioning axis Number of positioning axes at motion control cycle of 4 ms (typical value) Number of positioning axes at motion control 	40 80 160 80 20 160 40
 Required Motion Control resources per speed-controlled axis per positioning axis per synchronous axis per external encoder per output cam per cam track per probe Positioning axis Number of positioning axes at motion control cycle of 4 ms (typical value) 	40 80 160 80 20 160 40
Required Motion Control resources — per speed-controlled axis — per positioning axis — per synchronous axis — per external encoder — per output cam — per cam track — per probe Positioning axis — 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) Controller	40 80 160 80 20 160 40 140
 Required Motion Control resources per speed-controlled axis per positioning axis per synchronous axis per external encoder per output cam per cam track per probe Positioning axis 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) 	40 80 160 80 20 160 40

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 repa	ir time of 100 hours)
 Low demand mode: PFDavg in accordance with SIL3 	< 2.00E-05
 High demand/continuous mode: PFH in accordance with SIL3 	< 1.00E-09
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	0 °C
• horizontal installation, max.	60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off
 vertical installation, min. 	0 °C
vertical installation, max.	40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
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
— FBD	Yes
— STL	Yes
— SCL	Yes
— GRAPH	Yes
Know-how protection	
User program protection/password protection	Yes
Copy protection	Yes
Block protection	Yes
Access protection	160
Password for display	Yes
Protection level: Write protection	Yes
Protection level: Read/write protection	Yes
Protection level: Read/write protection Protection level: Complete protection	Yes
programming / cycle time monitoring / header	
• lower limit	adjustable minimum cycle time
• upper limit	adjustable maximum cycle time
Open Development interfaces	asjacasio maximum cyclo umo
• Size of ODK SO file, max.	9.8 Mbyte
Dimensions	o.o magio
Width	175 mm
	1/5 mm 147 mm
Height	
Depth	129 mm
Weights	0.447
Weight, approx.	2 117 g
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last modified:

4/1/2022