SIEMENS

Data sheet

6ES7151-8AB01-0AB0

SIMATIC DP, IM151-8 PN/DP CPU f. ET200S, 192 KB work memory, int. PROFINET interface (with three RJ45 ports) as IO controller, without battery MMC required



General information	
HW functional status	01
Firmware version	V3.2
Engineering with	
 Programming package 	STEP 7 V5.5 or higher
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; against destruction
external protection for power supply lines	2 A min.
(recommendation)	
Mains buffering	
 Mains/voltage failure stored energy time 	5 ms
Input current	
Inrush current, max.	1.8 A; Typical
l²t	0.13 A ^{2.} s
from supply voltage 1L+, max.	352 mA; 426 mA with DP master module

Output current	
for backplane bus (5 V DC), max.	700 mA
Power loss	
Power loss typ.	5.5 W
Memory Work memory	
Work memory integrated	192 kbyte
expandable	No
 Size of retentive memory for retentive data 	64 kbyte
blocks	
Load memory	
• Plug-in (MMC)	Yes
• Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last 	10 у
programming), min.	
Backup	Voo: Engured by SIMATIC Migro Mamori Cord (mointenen-
• present	Yes; Ensured by SIMATIC Micro Memory Card (maintenance- free)
CPU processing times	
for bit operations, typ.	0.06 µs
for word operations, typ. for fixed point arithmetic, typ.	0.12 μs 0.16 μs
for floating point arithmetic, typ.	0.59 µs
CPU-blocks	
Number of blocks (total)	1 024; (DBs, FCs, FBs); the maximum number of loadable blocks can be reduced by the MMC used.
DB	
• Number, max.	1 024; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
• Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	4.004 Must server 0.15 7000
• Number, max.	1 024; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	See S7 200 energing list
• Description	See S7-300 operation list
• Size, max.	64 kbyte
Number of free cycle OBs	1; OB 1
Number of time alarm OBs	1; OB 10
 Number of delay alarm OBs 	2; OB 20, 21

 Number of cyclic interrupt OBs 	4; OB 32, 33, 34, 35
 Number of process alarm OBs 	1; OB 40
 Number of DPV1 alarm OBs 	3; OB 55, 56, 57
 Number of isochronous mode OBs 	1; OB 61; only for PROFINET
 Number of startup OBs 	1; OB 100
 Number of asynchronous error OBs 	6; OB 80, 82, 83, 85, 86, 87 (OB83 only for centralized I/O and PROFINET IO)
 Number of synchronous error OBs 	2; OB 121, 122
Nesting depth	
 per priority class 	16
 additional within an error OB 	4
Counters, timers and their retentivity	
S7 counter	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	Z 0 to Z 7
Counting range	
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Туре	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	
Number	256
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	255
— preset	No retentivity
Time range	
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	
● present	Yes
•Туре	SFB
• Number	Unlimited (limited only by RAM capacity)

Data areas and their retentivity	
Flag	
• Number, max.	256 byte
 Retentivity available 	Yes
 Retentivity preset 	MB 0 to MB 15
 Number of clock memories 	8; 1 memory byte
Data blocks	
 Retentivity adjustable 	Yes; via non-retain property on DB
Retentivity preset	Yes
Local data	
 per priority class, max. 	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
Inputs	2 048 byte
Outputs	2 048 byte
of which distributed	
— Inputs	2 048 byte
— Outputs	2 048 byte
Process image	
 Inputs, adjustable 	2 048 byte
 Outputs, adjustable 	2 048 byte
 Inputs, default 	128 byte
Outputs, default	128 byte
Subprocess images	
 Number of subprocess images, max. 	1; With PROFINET IO, the length of the user data is limited to 1600 bytes
Digital channels	
Inputs	16 336
— of which central	496
Outputs	16 336
— of which central	496
Analog channels	
Inputs	1 021
— of which central	124
Outputs	1 021
— of which central	124
Hardware configuration	
Number of modules per system, max.	63; Centralized
Mounting rail	
 Number of mounting rails that can be used 	1
 Length of mounting rail, max. 	Station width: \leq 1 m or $<$ 2 m

Time of day	
Clock	
 Hardware clock (real-time) 	Yes
 retentive and synchronizable 	Yes
Backup time	6 wk; At 40 °C ambient temperature, typically
 Deviation per day, max. 	10 s; Typ.: 2 s
 Behavior of the clock following POWER-ON 	Clock continues running after POWER OFF
 Behavior of the clock following expiry of backup 	Clock continues to run with the time at which the power failure
period	occurred
Operating hours counter	
• Number	1
 Number/Number range 	0
 Range of values 	0 to 2^31 hours (when using SFC 101)
Granularity	1 h
retentive	Yes; Must be restarted at each restart
Clock synchronization	
supported	Yes
• to MPI, master	No
● to MPI, slave	No
• to DP, master	Yes; With DP master module
• to DP, slave	Yes; With DP master module
• in AS, master	No
• in AS, slave	No
 on Ethernet via NTP 	Yes; As client
Interfaces	
Interfaces/bus type	1x PROFINET (3 RJ45 ports)
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	3; 3 ports (incl. switch)
Number of wireless interfaces	0
1. Interface	
Interface type	PROFINET
Physics	Ethernet

Interface type	PROFINET
Physics	Ethernet
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
Change of IP address at runtime, supported	Yes
Interface types	
 Number of ports 	3; RJ45
 integrated switch 	Yes
Protocols	

 Incr PROFINET IO Controller Yes: Also simultaneously with IO-Device functionality PROFINET CBA Yes: Also simultaneously with IO Controller functionality PROFIBUS DP master No PROFIBUS DP lave No Open IE communication Yes: Via TCP/IP, ISO on TCP, and UDP Web server Yes POINt-to-point connection No PROFIBUS OD communication Yes: Via TCP/IP, ISO on TCP, and UDP Web server Yes: Via TCP/IP, ISO on TCP, and UDP Web server Yes: With DD master module Services PCOOP communication Yes: With DD master module Soft communication Yes: With ID PROFINET IO Open IE communication Yes: With IDP master module Soft communication Yes: With ID PROFINET IO Open IE communication Yes: With IDP ROFINET IO Open IE communication Yes: With IDP ROFINET IO Open IE communication Yes: With IDP ROFINET IO Open IE communication Yes: Via TCP/IP, ISO on TCP, and UDP IRT Yes Shared device Yes Shared device Yes Number of connectable IO Devices, max. Of which in line, max. Attratume and the option Trigh flexibility of which in line, max. Attratume of IO Devices with IRT and the option Trigh flexibility Activation/deactivation of IO Devices for RT, max. Activation/deactivation of IO Devices for RT, max. Activation/deactivation of IO Devices for RT, max. Activation/deactivation of Devices for RT, max. Activation/deactivated on pervise Yes Number of IO	• MPI	No
PROFINET IO DeviceYes: Also simultaneously with IO Controller functionality• PROFIBUS DP masterNo• PROFIBUS DP slaveNo• Open IE communicationYes: Via TOP/IP, ISO on TOP, and UDP• Web serverYes:• Point-to-point connectionNoPROFIDE TO Controller100 Mbit/s; full duplex• Transmission rate, max.100 Mbit/s; full duplex• PROFIDE TO CommunicationYes:• PG/OP communicationYes:• PG/OP communicationYes:• PG/OP communicationYes: With DP master module• S7 communicationYes: With DP master module• S7 communicationYes: Via TOP/IP, ISO on TOP, and UDP• RATYes: Via TOP/IP, ISO on TOP, and UDP• RARPYes: Via TOP/IP, ISO on TOP, and UDP• IRTYes• Number of connectable IO Devices, max.128• Of which IO devices with prioritized startup, max.32• Of which Io line, max.128• Of which In line, max.51• Of which in line, max.51• Number of connectable IO Devices for RT, max.128• Of which in line, max.51• Of which in line, max.128• Of which in line, max.128• Of which in line, max.51• Number of connectable IO Devices for RT, max.128• Numbe		
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Web serverYes• Point-to-point connectionNoPROFINET IO Controller• Transmission rate, max.00 Mbil/s; full duplexServices•• PG/OP communicationYes• PG/OP communicationYes; With DP master module• S7 communicationYes; OB 61; only for PROFINET IO• Open IE communicationYes; Via TOP/IP, ISO on TCP, and UDP• IRTYes• MRPYes• Shared deviceYes• Number of IO devices with prioritized startup, max.128• Of which in line, max.64• Of which in line, max.61• Of which in line, max.128• of which in line, max.128• of which in line, max.128• of which in line, max.61• Oumber of connectable IO Devices for RT, max.128• of which in line, max.61• of which in line, max.128• of which in lin		
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PROFINET IO Controller • Transmission rate, max. 100 Mbit/s; full duplex Services - - Routing Yes - Routing Yes; With DP master module - S7 communication Yes; With DP master module - S7 communication Yes; With DP master module - S7 communication Yes; With DP master module - Sochronous mode Yes; OB 61; only for PROFINET IO - Open IE communication Yes; Vai TCP/IP, ISO on TCP, and UDP - IRT Yes - Shared device Yes - Shared device Yes - Number of IO devices with prioritized 32 startup, max. 64 - Of which Io devices with IRT, max. 64 - of which Io lew max. 61 - Number of IO Devices with IRT and the option "high flexibility" 128 - of which In line, max. 61 - Number of IO Devices for RT, max. 61 - Activation/deactivation of IO Devices Yes - Activation/deactivated/deactivated, max. 128 - Of which In line, max. 128 - Of which In line, max. 128 - Activ		
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	- Device replacement without swap medium	Yes
	— Send cycles	

— Updating time	Minimum value depends on communication share set for PROFINET I/O, on the number of I/O devices, and on the number
— Updating times	of configured user data items. 250 µs to 512 ms (depends on operating mode; for more details, refer to Operating Instructions, "Interface Module IM151-8 PN/DP CPU")
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
— User data consistency, max.	1 024 byte; with PROFINET I/O
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; with loadable FBs
— Isochronous mode	No
— Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP
— IRT	Yes
— MRP	Yes
— PROFlenergy	Yes; With SFB 73 / 74 prepared for loadable PROFlenergy standard FB for I-Device
— Shared device	Yes
— Number of IO Controllers with shared	2
device, max.	
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
— User data per submodule, max.	1 024 byte
PROFINET CBA	
acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	
 Number of connections, max. 	8
 Local port numbers used at the system end 	0, 20, 21, 23, 25, 80, 102, 135, 161, 443, 8080, 34962, 34963, 34964, 65532, 65533, 65534, 65535
2. Interface	
Interface type	External interface via master module 6ES7138-4HA00-0AB0
Physics	RS 485
Isolated	Yes
Power supply to interface (15 to 30 V DC), max.	No
Protocols	

• MPI	No
PROFINET IO Controller	No
PROFINET IO Device	No
• PROFINET CBA	No
 PROFIBUS DP master 	Yes
PROFIBUS DP slave	No
 Open IE communication 	No
Web server	No
PROFIBUS DP master	
 Transmission rate, max. 	12 Mbit/s
 Number of DP slaves, max. 	32; Per station
Services	
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	No
— S7 basic communication	Yes; I blocks only
— S7 communication	Yes
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	No
- SYNC/FREEZE	Yes
— Activation/deactivation of DP slaves	Yes
— Number of DP slaves that can be	8
simultaneously activated/deactivated, max.	
— Direct data exchange (slave-to-slave	Yes
communication)	N.
— DPV1	Yes
Address area	
— Inputs, max.	2 048 byte
— Outputs, max.	2 048 byte
User data per DP slave	
— Inputs, max.	244 byte
— Outputs, max.	244 byte
Protocols	
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
— Number of connections, max.	8
— Data length for connection type 01H, max.	1 460 byte
— Data length for connection type 11H, max.	32 768 byte

- several passive connections per port, supportedYes• ISO-on-TCP (RFC1006)Yes; via integrated PROFINET interface and loadable FBs- Number of connections, max.8- Data length, max.32 768 byte• UDPYes; via integrated PROFINET interface and loadable FBs- Number of connections, max.8- Data length, max.8- Data length, max.1472 byteWeb server1472 byte• User-defined websitesYes• Number of HTTP clients5Media redundancy• Switchover time on line break, typ.200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous operation (application synchronized up to terminal)No
 ISO-on-TCP (RFC1006) Yes; via integrated PROFINET interface and loadable FBs Number of connections, max. Data length, max. 22 768 byte UDP Yes; via integrated PROFINET interface and loadable FBs Number of connections, max. Data length, max. 1472 byte Veb server Supported Ves User-defined websites Number of HTTP clients Sochronous operation (application synchronized up No
- Number of connections, max.8- Data length, max.32 768 byte• UDPYes; via integrated PROFINET interface and loadable FBs- Number of connections, max.8- Data length, max.1 472 byteWeb server1 472 byte• supportedYes• SupportedYes• Number of HTTP clients5Media redundancy• Switchover time on line break, typ.200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous operation (application synchronized upNo
- Data length, max.32 768 byte- Data length, max.Yes; via integrated PROFINET interface and loadable FBs- Number of connections, max.8- Data length, max.1 472 byteWeb serverYes• supportedYes• User-defined websitesYes• Number of HTTP clients5Media redundancy• Switchover time on line break, typ.200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous operation (application synchronized upNo
• UDPYes; via integrated PROFINET interface and loadable FBs- Number of connections, max.8- Data length, max.1 472 byteWeb serverYes• supportedYes• User-defined websitesYes• Number of HTTP clients5Media redundancy200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous operation (application synchronized upNoNo
- Number of connections, max.8- Data length, max.1 472 byteWeb server9• supportedYes• User-defined websitesYes• Number of HTTP clients5Media redundancy200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous operation (application synchronized upNo
Data length, max.1 472 byteWeb serverYes• supportedYes• User-defined websitesYes• Number of HTTP clients5Media redundancy200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous modeIsochronous operation (application synchronized upNo
Web server Yes • supported Yes • User-defined websites Yes • Number of HTTP clients 5 Media redundancy 200 ms; PROFINET MRP • Number of stations in the ring, max. 50
• supportedYes• User-defined websitesYes• Number of HTTP clients5Media redundancy200 ms; PROFINET MRP• Switchover time on line break, typ.200 ms; PROFINET MRP• Number of stations in the ring, max.50Isochronous modeIsochronous operation (application synchronized upNo
• User-defined websites • Number of HTTP clients Media redundancy • Switchover time on line break, typ. • Number of stations in the ring, max. Solution (application synchronized up) No
Number of HTTP clients S Media redundancy Switchover time on line break, typ. 200 ms; PROFINET MRP Number of stations in the ring, max. 50 Isochronous mode Isochronous operation (application synchronized up No
Media redundancy • Switchover time on line break, typ. 200 ms; PROFINET MRP • Number of stations in the ring, max. 50 Isochronous mode Isochronous operation (application synchronized up No
Switchover time on line break, typ. 200 ms; PROFINET MRP Number of stations in the ring, max. 50 Isochronous mode Isochronous operation (application synchronized up No
Number of stations in the ring, max. Sochronous mode Isochronous operation (application synchronized up No
Isochronous mode Isochronous operation (application synchronized up
Isochronous operation (application synchronized up No
to terminal)
Communication functions
PG/OP communication Yes
Data record routing Yes; With DP master module
Global data communication
• supported No
S7 basic communication
• supported Yes; I blocks
• User data per job, max. 76 byte
• User data per job (of which consistent), max. 76 byte
S7 communication
• supported Yes
• as server Yes
as client Yes; via integrated PROFINET interface and loadable FBs
• User data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs
and of the SFCs/FCs of S7 Communication)
PROFINET CBA (at set setpoint communication load)
• Setpoint for the CPU communication load 50 %
Number of remote interconnection partners 32
Number of functions, master/slave 30
• Total of all master/slave connections 1 000
Data length of all incoming connections 4 000 byte
master/slave, max.
• Data length of all outgoing connections 4 000 byte master/slave, max.

Number of device-internal and PROFIBUS	500
interconnections	
 Data length of device-internal und PROFIBUS interconnections, max. 	4 000 byte
 Data length per connection, max. 	1 400 byte
Remote interconnections with acyclic transmission	
 — Sampling frequency: Sampling time, min. 	500 ms
 — Number of incoming interconnections 	100
 — Number of outgoing interconnections 	100
 Data length of all incoming interconnections, max. 	2 000 byte
 Data length of all outgoing interconnections, max. 	2 000 byte
— Data length per connection, max.	1 400 byte
Remote interconnections with cyclic transmission	
— Transmission frequency: Transmission	1 ms
interval, min.	
 Number of incoming interconnections 	200
 — Number of outgoing interconnections 	200
 Data length of all incoming interconnections, max. 	2 000 byte
 Data length of all outgoing interconnections, max. 	2 000 byte
— Data length per connection, max.	450 byte
HMI variables via PROFINET (acyclic)	
 — Number of stations that can log on for HMI variables (PN OPC/iMap) 	3; 2x PN OPC/1x iMap
— HMI variable updating	500 ms
— Number of HMI variables	200
— Data length of all HMI variables, max.	2 000 byte
PROFIBUS proxy functionality	
— supported	Yes
— Number of linked PROFIBUS devices	16
— Data length per connection, max.	240 byte; Slave-dependent
iPAR server	
• supported	Yes
Number of connections	
• overall	12
 usable for PG communication 	11
- reserved for PG communication	1
— adjustable for PG communication, min.	1
— adjustable for PG communication, max.	11
 usable for OP communication 	11

 reserved for OP communication 	1
— adjustable for OP communication, min.	1
— adjustable for OP communication, max.	11
 usable for S7 basic communication 	10
 reserved for S7 basic communication 	0
 — adjustable for S7 basic communication, min. 	0
 — adjustable for S7 basic communication, max. 	10
 usable for S7 communication 	10; with loadable FBs
— adjustable for S7 communication, max.	10
• total number of instances, max.	32
 usable for routing 	4; With DP master module
-	
S7 message functions	
Number of login stations for message functions, max.	12; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes; ALARM_S, ALARM_SC, ALARM_SQ, ALARM_D, ALARM_DQ
simultaneously active Alarm-S blocks, max.	300
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Number of breakpoints Status/control	4
	4 Yes
Status/control	
Status/control • Status/control variable	Yes
Status/control • Status/control variable • Variables	Yes Inputs, outputs, memory bits, DB, times, counters
Status/control • Status/control variable • Variables • Number of variables, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30 30
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30 30
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes I/O
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. Berocing • Forcing, variables • Number of variables, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes I/O
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes I/O 10
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes I/O 10
Status/control • Status/control variable • Variables • Number of variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max.	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 14 Yes I/O 10 Yes 500
Status/control Status/control variable Variables Number of variables, max. — of which status variables, max. — of which control variables, max. Forcing • Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 30 14 Yes I/O 10 Yes 500 No
Status/control Status/control variable Variables Number of variables, max. — of which status variables, max. — of which control variables, max. — of which control variables, max. Forcing • Forcing, variables • Number of variables, max. Diagnostic buffer • present • Number of entries, max. — adjustable — of which powerfail-proof	Yes Inputs, outputs, memory bits, DB, times, counters 30 30 30 14 Yes I/O 10 Yes 500 No

Diagnostics indication LED	
• for maintenance	Yes; MT
• Bus fault BF (red)	Yes; BF-PN
• Group error SF (red)	Yes
 Monitoring 24 V voltage supply ON (green) 	Yes
Bus activity PROFINET (green)	Yes; P1-/P2-/P3-Link
Potential separation between PROFIBUS DP and all other circuit	Yes
components	res
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	500 V DC
Degree and class of protection	
IP degree of protection	IP20
Configuration	
Configuration software	Voc VE E or higher
• STEP 7	Yes; V5.5 or higher
Programming	see instruction list
Command set	8
Nesting levels	
• System functions (SFC)	see instruction list
System function blocks (SFB)	see instruction list
Programming language	Vee
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes; Optional
— CFC	Yes; Optional
— GRAPH	Yes; Optional
— HiGraph®	Yes; Optional
Know-how protection	
User program protection/password protection	Yes
Block encryption	Yes; With S7 block Privacy
Cycle time monitoring	1 ma
• lower limit	1 ms
• upper limit	6 000 ms
• adjustable	Yes
• preset	150 ms
Dimensions	

Width	120 mm; DP master module: 35 mm
Height	119.5 mm
Depth	75 mm
Weights	
Weight, approx.	320 g; DP master module: Approx. 100 g
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