Data sheet 6ES7318-3EL01-0AB0



SIMATIC S7-300 CPU 319-3 PN/DP, Central processing unit with 2 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave 3rd interface Ethernet PROFINET, with 2-port switch, Micro Memory Card required

General information	
Product type designation	CPU 319-3 PN/DP
HW functional status	01
Firmware version	V3.2
Product function	
Isochronous mode	Yes; Via 2nd PROFIBUS DP or PROFINET interface
Engineering with	
 Programming package 	STEP 7 V5.5 or higher
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
external protection for power supply lines (recommendation)	2 A min.
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Repeat rate, min.	1 s
Input current	
Current consumption (rated value)	1 250 mA
Current consumption (in no-load operation), typ.	500 mA
Inrush current, typ.	4 A
l²t	1.2 A²-s
Power loss	
Power loss, typ.	14 W
Memory	
Work memory	
• integrated	2 048 kbyte
expandable	No
Load memory	
• Plug-in (MMC)	Yes
Plug-in (MMC), max.	8 Mbyte
 Data management on MMC (after last programming), min. 	10 a
Backup	
• present	Yes
without battery	Yes
CPU processing times	
for bit operations, typ.	0.004 μs
for word operations, typ.	0.01 µs
for fixed point arithmetic, typ.	0.01 µs
for floating point arithmetic, typ.	0.04 μs

CPU-blocks	
Number of blocks (total)	4 096; (DBs, FCs, FBs); the maximum number of loadable blocks can be
/	reduced by the MMC used.
DB	
• Number, max.	4 096; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	4 096; Number range: 0 to 7999
Size, max.	64 kbyte
FC	
Number, max.	4 096; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
• 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 (OB 35: smallest settable clock pulse = 500 μs)
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
 Number of startup OBs 	1; OB 100
Number of asynchronous error OBs	6; OB 80, 82, 83, 85, 86, 87 (OB83 only for 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	200
• Number	2 048
Retentivity	
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	V
— adjustable	Yes
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	0.040
Number Patentinity	2 048
Retentivity	V
— adjustable	Yes
— preset	No retentivity
Time range	40
— lower limit	10 ms
— upper limit	9 990 s
IEC timer	Von
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	700 kbyte
Flag	
• Size, max.	8 192 byte
Retentivity available	Yes; From MB 0 to MB 8 191
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 adjustable Retentivity preset	Yes
Local data	
per priority class, max.	32 768 byte; Max. 2048 bytes per block
Address area	
I/O address area	
• Inputs	8 192 byte
Outputs	8 192 byte
of which distributed	
— Inputs	8 192 byte
— Outputs	8 192 byte
Process image	
• Inputs	8 192 byte
 Outputs 	8 192 byte
 Inputs, adjustable 	8 192 byte
 Outputs, adjustable 	8 192 byte
 Inputs, default 	256 byte
Outputs, default	256 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	65 536
— of which central	1 024
Outputs	65 536
— of which central	1 024
Analog channels	
• Inputs	4 096
— of which central	256
Outputs	4 096
— of which central	256
Hardware configuration	
Number of DP masters	
• integrated	2
• via CP	4
Number of operable FMs and CPs (recommended)	
• FM	8
• CP, PtP	8
• CP, LAN	10
Rack Racks, max.	4
Modules per rack, max.	8
Time of day	0
Clock	
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
Backup time	6 wk; At 40 °C ambient temperature
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 period	the clock continues at the time of day it had when power was switched off
Operating hours counter	and also contained at the time of day it had when power was switched off
Number	4
Number/Number range	0 to 3
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	Yes
• on MPI, device	Yes
• to DP, master	Yes; With DP slave only slave clock
,	, ,

DD 1 .	V		
• on DP, device	Yes		
• in AS, master	Yes		
• in AS, device	Yes		
on Ethernet via NTP	Yes; As client		
Digital inputs			
Number of digital inputs	0		
Digital outputs			
Number of digital outputs	0		
Analog inputs			
Number of analog inputs	0		
Interfaces	4. O months (assistable DIAC		
Number of PROFINET interfaces	1; 2 ports (switch) RJ45		
Number of RS 485 interfaces Number of RS 422 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP 0		
1. Interface	0		
	Integrated RS 485 interface		
Interface type Isolated	Yes		
Interface types	165		
• RS 485	Yes		
Output current of the interface, max.	150 mA		
Protocols			
• MPI	Yes		
PROFIBUS DP master	Yes		
PROFIBUS DP device	Yes; A DP slave at both interfaces simultaneously is not possible		
Point-to-point connection	No		
MPI			
Transmission rate, max.	12 Mbit/s		
Services			
— PG/OP communication	Yes		
— Routing	Yes		
 Global data communication 	Yes		
 S7 basic communication 	Yes		
— S7 communication	Yes		
 S7 communication, as client 	No; but via CP and loadable FB		
 S7 communication, as server 	Yes		
PROFIBUS DP master			
 Transmission rate, max. 	12 Mbit/s		
max. number of DP devices	124		
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 devices	Yes		
— max. number of DP devices that can be activated/deactivated at the same time — activated at the same time	8		
 — Direct data exchange (slave-to-slave communication) 	Yes; as subscriber		
— DPV1	Yes		
Address area			
— Inputs, max.	8 kbyte		
— Outputs, max.	8 kbyte		
User data per DP device			
— Inputs, max.	244 byte		
— Outputs, max.	244 byte		

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1st interface / PROFIBUS DP device / header	40 M-4/-
Transmission rate, max.	12 Mbit/s
automatic baud rate search	Yes; only with passive interface
 Address area, max. 	32
User data per address area, max.	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; with interface active
 Global data communication 	No
 S7 basic communication 	No
— S7 communication	Yes
 S7 communication, as client 	No
 S7 communication, as server 	Yes; Connection configured on one side only
 Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
 Output current of the interface, max. 	200 mA
Protocols	
• MPI	No
PROFINET IO Controller	No
PROFINET IO Device	No
PROFINET CBA	No
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes; A DP slave at both interfaces simultaneously is not possible
Open IE communication	No
Web server	No
PROFIBUS DP master	
Transmission rate, max.	12 Mbit/s
max. number of DP devices	124
Services	·
— PG/OP communication	Yes
— Routing	Yes
Global data communication	No
Global data communication S7 basic communication	Yes; I blocks only
— S7 basic communication — S7 communication	Yes Yes
S7 communication S7 communication, as client	No
	Yes; Connection configured on one side only
— S7 communication, as server	
EquidistanceIsochronous mode	Yes Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously)
— SYNC/FREEZE	Yes
 activation/deactivation of DP devices max. number of DP devices that can be activated/deactivated at the same time 	Yes 8
Direct data exchange (slave-to-slave communication)	Yes; as subscriber
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
·	O NDYLE
User data per DP device	244 byto
— Inputs, max.	244 byte
— Outputs, max.	244 byte
2nd interface / PROFIBUS DP device / header	

GSD file	The latest GSD file is available at: http://www.siemens.com/profibus-gsd	
 Transmission rate, max. 	12 Mbit/s	
 automatic baud rate search 	Yes; only with passive interface	
 Address area, max. 	32	
User data per address area, max.	32 byte	
Services		
— PG/OP communication	Yes	
— Routing	Yes; with interface active	
 Global data communication 	No	
 S7 basic communication 	No	
— S7 communication	Yes	
 S7 communication, as client 	No	
 S7 communication, as server 	Yes; Connection configured on one side only	
 Direct data exchange (slave-to-slave communication) 	Yes	
— DPV1	No	
Transfer memory		
— Inputs	244 byte	
— Outputs	244 byte	
3. Interface		
Interface type	PROFINET	
Isolated	Yes	
automatic detection of transmission rate	Yes; 10/100 Mbit/s	
Autonegotiation	Yes	
Autocrossing	Yes	
Change of IP address at runtime, supported	Yes	
Interface types		
RJ 45 (Ethernet)	Yes	
Number of ports	2	
• integrated switch	Yes	
Protocols		
• MPI	No	
 PROFINET IO Controller 	Yes; Also simultaneously with I-Device functionality	
PROFINET IO Device	Yes; Also simultaneously with IO Controller functionality	
PROFINET CBA	Yes	
 PROFIBUS DP master 	No	
 PROFIBUS DP device 	No	
Open IE communication	Yes; Via TCP/IP, ISO on TCP, and UDP	
Web server	Yes	
Media redundancy	Yes	
Media redundancy PROFINET IO Controller	Yes	
·	Yes 100 Mbit/s	
PROFINET IO Controller		
PROFINET IO Controller • Transmission rate, max.		
PROFINET IO Controller • Transmission rate, max. Services	100 Mbit/s	
PROFINET IO Controller ■ Transmission rate, max. Services — PG/OP communication	100 Mbit/s Yes	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication	Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously)	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max.	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32	
PROFINET IO Controller ● Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max.	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256	
PROFINET IO Controller ● Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which IO devices with IRT, max.	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256 64	
PROFINET IO Controller • Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which IO devices with IRT, max. — of which in line, max. — Number of IO Devices with IRT and the option "high	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256 64 64	
PROFINET IO Controller ● Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which IO devices with IRT, max. — of which in line, max. — Number of IO Devices with IRT and the option "high flexibility"	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256 64 64 64 256	
PROFINET IO Controller ◆ Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which IO devices with IRT, max. — of which in line, max. — Number of IO Devices with IRT and the option "high flexibility" — of which in line, max.	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256 64 64 64 256	
PROFINET IO Controller ● Transmission rate, max. Services — PG/OP communication — Routing — S7 communication — Isochronous mode — Shared device — Prioritized startup — Number of IO devices with prioritized startup, max. — Number of connectable IO Devices, max. — Of which IO devices with IRT, max. — of which in line, max. — Number of IO Devices with IRT and the option "high flexibility" — of which in line, max. — Number of connectable IO Devices for RT, max.	Yes Yes Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32 Yes; OB 61 - isochronous mode is possible either on DP or PROFINET IO (not simultaneously) Yes Yes 32 256 64 64 64 256	

activated/deactivated, max.	
 — IO Devices changing during operation (partner ports), supported 	Yes
 Number of IO Devices per tool, max. 	8
 Device replacement without swap medium 	Yes
— Send cycles	$250~\mu s, 500~\mu s, 1~ms; 2~ms, 4~ms$ (not in the case of IRT with "high flexibility" option)
— Updating time	250 μs to 512 ms (depending on the operating mode, see Manual "S7-300 CPU 31xC and CPU 31x, technical Data" for more details)
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
 User data consistency, max. 	1 024 byte
PROFINET IO Device	
Services	
— PG/OP communication	Yes
— Routing	Yes
— S7 communication	Yes; with loadable FBs, max. configurable connections: 16, max. number of instances: 32
— Isochronous mode	No
— IRT	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 device, max.	2
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	1 440 byte, 1 of 10 controller with strated device
— Number, max.	64
User data per submodule, max.	1 024 byte
PROFINET CBA	1 024 byte
acyclic transmission	Yes
cyclic transmission	Yes
Open IE communication	103
Number of connections, max.	32
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
Keep-alive function, supported	Yes
Protocols	
PROFIsafe	No
Redundancy mode	
Media redundancy	
 Switchover time on line break, typ. 	200 ms; PROFINET MRP
Number of stations in the ring, max.	50
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	32
 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, supported 	Yes
• ISO-on-TCP (RFC1006)	Yes; via integrated PROFINET interface and loadable FBs
 Number of connections, max. 	32
— Data length, max.	32 768 byte
• UDP	Yes; via integrated PROFINET interface and loadable FBs
 Number of connections, max. 	32
— Data length, max.	1 472 byte
Web server	
• supported	Yes
User-defined websites	Yes
Number of HTTP clients	5
communication functions / header	

PC/OR communication	Voc
PG/OP communication	Yes
Data record routing	res
Global data communication	Voo
• supported	Yes
Number of GD loops, max. Number of GD populate may.	8
Number of GD packets, max.	8
Number of GD packets, transmitter, max.	8
Number of GD packets, receiver, max.	8
Size of GD packets, max. Size of GD packets, fixthis appointment and the second	22 byte
Size of GD packet (of which consistent), max.	22 byte
S7 basic communication	Yes
• supported	
User data per job, max. User data per job (of which consistent) may.	76 byte 76 bytes (with V. SEND or V. DCV): 64 bytes (with V. DUT or V. CET
 User data per job (of which consistent), max. 	76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes; via integrated PROFINET interface and loadable FB or via CP and loadable FB
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)
S5 compatible communication	
• supported	Yes; via CP and loadable FC
communication functions / PROFINET CBA (with set target commu	nication load) / header
 Setpoint for the CPU communication load 	20 %
 Number of remote interconnection partners 	32
 number of master/device functions 	50
 total of all master/device connections 	3 000
 data length of all incoming master/device connections, max. 	24 000 byte
 data length of all outgoing master/device connections, max. 	24 000 byte
 Number of device-internal and PROFIBUS interconnections 	1 000
 Data length of device-internal und PROFIBUS interconnections, max. 	8 000 byte
Data length per connection, max.	1 400 byte
performance data / PROFINET CBA / remote interconnection	/ with acyclic transfer / header
— Sampling interval, min.	200 ms
 Number of incoming interconnections 	100
 Number of outgoing interconnections 	100
 Data length of all incoming interconnections, max. 	3 200 byte
 Data length of all outgoing interconnections, max. 	3 200 byte
Data length per connection, max.	1 400 byte
performance data / PROFINET CBA / remote interconnection	/ with cyclic transfer / header
 Transmission frequency: Transmission interval, min. 	1 ms
 Number of incoming interconnections 	300
 Number of outgoing interconnections 	300
 Data length of all incoming interconnections, max. 	4 800 byte
 Data length of all outgoing interconnections, max. 	4 800 byte
— Data length per connection, max.	450 byte
performance data / PROFINET CBA / HMI variables via PROF	INET / acyclic / header
 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 	600
 Data length of all HMI variables, max. 	9 600 byte
performance data / PROFINET CBA / PROFIBUS proxy function	onality / header
— supported	Yes
 Number of linked PROFIBUS devices 	32
— Data length per connection, max.	240 byte; Slave-dependent
Number of connections	

• overall	32
usable for PG communication	31
- reserved for PG communication	1
adjustable for PG communication, min.	1
adjustable for PG communication, min. — adjustable for PG communication, max.	31
usable for OP communication	31
reserved for OP communication	1
adjustable for OP communication, min.	1
adjustable for OP communication, max.	31
usable for S7 basic communication	30
reserved for S7 basic communication	0
adjustable for S7 basic communication, min.	0
adjustable for S7 basic communication, min. adjustable for S7 basic communication, max.	30
usable for S7 communication	16
reserved for S7 communication	0
adjustable for S7 communication, min.	0
adjustable for S7 communication, min. adjustable for S7 communication, max.	16
•	
total number of instances, max.usable for routing	32 X1 as MPI: max. 10; X1 as DP master: max. 24; X1 as DP slave (active): max.
• usable for fouting	14; X2 as DP master: max. 24; X2 as DP slave (active): max. 14; X3 as PROFINET: 48 max.
S7 message functions	
Number of login stations for message functions, max.	32; Depending on the configured connections for PG/OP and S7 basic communication
Process diagnostic messages	Yes
simultaneously active Alarm_S blocks, max.	300
Test commissioning functions	
Status block	Yes; Up to 2 simultaneously
Single step	Yes
Number of breakpoints	4
Status/control	
Status/control variable	Yes
• Variables	Inputs, outputs, memory bits, DB, times, counters
Number of variables, max.	30
— of which status variables, max.	30
— of which control variables, max.	14
Forcing	Voc
• Forcing	Yes
Forcing, variables Number of variables, may	Inputs, outputs
Number of variables, max. Diagnostic buffer.	10
Diagnostic buffer	Von
• present	Yes
Number of entries, max.	500 No.
— adjustable	No 100
— of which powerfail-proof	100
Number of entries readable in RUN, max.	499 Year From 10 to 400
— adjustable	Yes; From 10 to 499
— preset	10
Service data • can be read out	Yes
Ambient conditions	100
Ambient contentions Ambient temperature during operation	
min.	0 °C
• max.	60 °C
configuration / header	
Configuration software	
• STEP 7	Yes; V5.5 or higher
configuration / programming / header	,
Command set	see instruction list
Nesting levels	8
System functions (SFC)	see instruction list
-,	

 System function blocks (SFB) 	see instruction list		
Programming language			
— LAD	Yes		
— FBD	Yes		
— STL	Yes		
— SCL	Yes		
— CFC	Yes		
— GRAPH	Yes		
— HiGraph®	Yes		
Know-how protection			
 User program protection/password protection 	Yes		
 Block encryption 	Yes; With S7 block Privacy		
Dimensions			
Width	120 mm		
Height	125 mm		
Depth	130 mm		
Weights			
Weight, approx.	1 250 g		
Classifications			
		Version	Classification

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration







Miscellaneous



EMV

For use in hazardous locations





<u>FM</u>







For use in hazardous locations

Marine / Shipping

Miscellaneous

CCC-Ex









Marine / Shipping

Industrial Communication





CCS (China Classification Society)



PROFINET

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