SIEMENS

Data sheet

6ES7317-2AK14-0AB0



SIMATIC S7-300, CPU 317-2 DP, Central processing unit with 1 MB work memory, 1st interface MPI/DP 12 Mbit/s, 2nd interface DP master/slave Micro Memory Card required

General information	
Product type designation	CPU 317-2 DP
HW functional status	01
Firmware version	V3.3
Engineering with	
 Programming package 	STEP 7 as of V5.5 + SP1 or STEP 7 V5.2 + SP1 or higher with HSP 202
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)	870 mA
Current consumption (in no-load operation), typ.	120 mA
Inrush current, typ.	4 A
l²t	1 A ² ·s
Power loss	
Power loss, typ.	4.5 W
Power loss, typ. Memory	4.5 W
	4.5 W
Memory	4.5 W 1 024 kbyte
Memory Work memory	
Memory Work memory • integrated	1 024 kbyte
Memory Work memory • integrated • expandable	1 024 kbyte
Memory Work memory • integrated • expandable Load memory	1 024 kbyte No
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC)	1 024 kbyte No Yes
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming),	1 024 kbyte No Yes 8 Mbyte
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min.	1 024 kbyte No Yes 8 Mbyte
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup	1 024 kbyte No Yes 8 Mbyte 10 a
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup • present	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free)
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup • present • without battery	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free)
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup • present • without battery CPU processing times	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data
Memory Work memory integrated expandable Load memory Plug-in (MMC) Plug-in (MMC), max. Data management on MMC (after last programming), min. Backup present without battery CPU processing times for bit operations, typ.	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup • present • without battery CPU processing times for bit operations, typ. for word operations, typ.	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data 0.025 μs 0.03 μs
Memory Work memory • integrated • expandable Load memory • Plug-in (MMC) • Plug-in (MMC), max. • Data management on MMC (after last programming), min. Backup • present • without battery CPU processing times for bit operations, typ. for word operations, typ. for fixed point arithmetic, typ.	1 024 kbyte No Yes 8 Mbyte 10 a Yes; Guaranteed by MMC (maintenance-free) Yes; Program and data 0.025 μs 0.03 μs 0.04 μs

	reduced by the MMC used.
DB	
Number, max.	2 048; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	2 048; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	2 048; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Number, max.	see instruction 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
Number of startup OBs	1; OB 100
Number of asynchronous error OBs	5; OB 80, 82, 85, 86, 87
Number of asynchronous error OBs	2; OB 121, 122
Nesting depth	2,00121,122
per priority class	16
additional within an error OB	4
Counters, timers and their retentivity	7
S7 counter	
	512
Number Detectivity	512
Retentivity	Yes
— adjustable	Z 0 to Z 7
— preset	
Counting range — lower limit	0
	0
— upper limit	999
IEC counter	Vee
• present	Yes SFB
• Type	
Number	Unlimited (limited only by RAM capacity)
S7 times	540
Number	512
Retentivity	Vee
— adjustable	Yes
— preset	No retentivity
Time range — lower limit	10 ms
— upper limit	9 990 s
IEC timer	Vac
• present	Yes
• Type	SFB
Number Data areas and their retentivity	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	256 kbyte
Flag	4.000 hute
• Size, max.	4 096 byte
Retentivity available	Yes; From MB 0 to MB 4 095
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	8 192 byte
Outputs	8 192 byte
of which distributed	0 102 5910
— Inputs	8 192 byte
— Outputs	8 192 byte
Process image	0 192 byte
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
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 expansion units, max.	3
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	5
Clock	Vaa
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	
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
• on DP, device	Yes

• in AS, master	Yes
• in AS, master • in AS, device	Yes
on Ethernet via NTP	No
Digital inputs	NU
Number of digital inputs	0
Digital outputs	0
Number of digital outputs	0
Analog inputs	0
Number of analog inputs	0
Interfaces	0
Number of PROFINET interfaces	0
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
Number of RS 422 interfaces	0
1. Interface	•
Interface type	Integrated RS 485 interface
Isolated	Yes
Interface types	
• RS 485	Yes
 Output current of the interface, max. 	200 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; Only server, configured on one side
 — 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; Only server, configured on one side
— S7 communication, as client	No
— S7 communication, as server	Yes
— Equidistance	Yes
 — Isochronous mode — SYNC/FREEZE 	No Yes
 — SYNC/FREEZE — activation/deactivation of DP devices 	Yes
max. number of DP devices that can be	8
activated/deactivated at the same time	
 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
1st interface / PROFIBUS DP device / header	

• Transmission rate, max.	12 Mbit/s		
automatic baud rate search			
	Yes; only with passive interface 32		
Address area, max.	32 32 byte		
User data per address area, max. Services	32 Dyte		
— PG/OP communication	Yes		
— Routing	Yes; Only with active interface		
— Global data communication	No		
— S7 basic communication	No		
— S7 communication	Yes; Only server, configured on one side		
- 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 2. Interface	244 byte		
	Integrated DS 195 interface		
Interface type	Integrated RS 485 interface		
Isolated	Yes		
Interface types	N .		
• RS 485	Yes		
Output current of the interface, max.	200 mA		
Protocols			
• MPI	No		
 PROFIBUS DP master 	Yes		
 PROFIBUS DP device 	Yes; A DP slave at both interfaces simultaneously is not possible		
Point-to-point connection	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		
— S7 basic communication	Yes; I blocks only		
- S7 communication	Yes; Only server, configured on one side		
- S7 communication, as client	No; but via CP and loadable FB		
- S7 communication, as server	Yes		
— Equidistance	Yes		
— Isochronous mode	Yes; OB 61		
— SYNC/FREEZE	Yes		
	Yes		
— max. number of DP devices that can be	8		
activated/deactivated at the same time			
— Direct data exchange (slave-to-slave	Yes; as subscriber		
communication)			
— DPV1	Yes		
Address area			
— Inputs, max.	8 192 byte		
— Outputs, max.	8 192 byte		
User data per DP device			
— Inputs, max.	244 byte		
— Outputs, max.	244 byte		
2nd interface / PROFIBUS DP device / header			
• GSD file	The latest GSD file is available on the Internet (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		
1			

PGCUP communication P	Services			
- Rubing Yes: Only with active interface - Global inta continuitation No - SY continuitation as a client Yes: Only server, configured on one side - SY continuitation, as a client No. but via CP and loadable FB - Sy continuitation, as a client Yes - Direct date scharping (silve-lo-date Yes - Direct date scharping (silve-lo-date Yes - Direct date scharping (silve-lo-date Yes - Calputa 244 byte PROFlade No Communication functions / function Yes Calata casa communication Yes - Sing of GD pooles, max. 8 - Number of GD pooles, max. 8 - Number of GD pooles, max. 8 - Sing of GD pooles, max. 7 - Sing of GD pooles, max. 9 <t< td=""><td>— PG/OP communication</td><td>Yes</td></t<>	— PG/OP communication	Yes		
- Global data communication No - S7 basic communication No - S7 communication, as client No but va CP and loadable FB - S7 communication, as server Yes - Direct data exchange (slove-lo-slave communication) Yes - Direct data exchange (slove-lo-slave communication) No - Direct data exchange (slove-lo-slave communication) Yes - Direct data exchange (slove-lo-slave communication) Yes - Direct data exchange (slove-lo-slave communication) Yes - Ordpats 244 bys Protocols Protocols Protocols Yes Obtain coord routing Yes State communication Yes • State of Ob packets, routing,	- Routing	Yes: Only with active interface		
 SP pasks communication SP communication as solvert SP communication, as solvert SP communication 	— Global data communication			
 SP communication, as client SP communication, as sever SP communication, as sever SP communication, as sever Dired table actinange (slow-lo-slave Dired table actinange (slow-lo-slave Dired table actinange (slow-lo-slave Dorub table actinange (slow-lo-slave) Dired table periob (slow-lo-slave) Dired table periob (slow-lo-slave), max. Dired table periob (slow-lo-slave), max. Dired table periob (slow-lo-slave), max. Dired table periob, max. Dired table	- S7 basic communication			
S7 communication, as surver Yes S7 communication, as surver Yes Incid dia contribute (sine-to-slave communication) Yes Inputs 244 byte Outputs Yes Second routing Yes Second routing Yes Second routing Yes Second routing Yes Womber of CD poperstes, max. 8 Womber of CD packets, max. 8 Second routing Yes				
Direct data carbange (size-to-slave communication) Yes DPV1 No Tradefer memoy 244 byte Outputs 244 byte POPOT No Process 244 byte Process 244 byte Process No Process Ves Data record routing Yes Social data communication 8 Number of CD Loops, max. 8 Number of CD packets, memoty, max. 8 Number of CD packets, memoty, max. 8 Size of CD packets, max. 8 Size of CD packets, max. 2 byte Size of CD packets, max. 76 byte Number of CD packets, max. 76 byte Size of CD packets, max. 76 byte Size of CD packet, for max. 78 byte				
communication				
Transfer menory				
	— DPV1	No		
−Oupuls 244 byte Protocols No Communication functions / heador Yes Obta record routing Yes Obta record routing Yes Outa record routing Yes Number of CD packets, max. 8 Number of CD packets, max. 8 Number of CD packets, max. 8 Number of CD packets, max. 22 byte Size of CD packets, freex. 22 byte Size of CD packets, max. 8 • Number of CD packets, max. 8 • Size of CD packets, max. 8 • Size of CD packets, max. 76 byte • User data per job, max. 76 byte • User data per job, max. 76 byte • Size of CD packets, max. 76 byte • supported	Transfer memory			
Protocols No PROFisate No Communication functions / header PROPOP communication PROPOP communication Yes Data record routing Yes Colorations Yes Number of DD packets, max. 8 Number of DD packets, max. 8 Number of CD packets, reserver, max. 8 Size of CD packets (of which consistent), max. 2byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of which consistent), max. 7byte Size of CD packet (of PC communication in the server) Yes Size of CD packet (of PC communication in the server) Yes Size onepatible communication i	— Inputs	244 byte		
PROFisate No communication functions / header PGOP communication PGOP communication Yes Global data communication Yes Global data communication Yes Number of CD packes, max. 8 Number of CD packes, reacts, reacting and the communication 22 byte Size of CD packets, reacts, reacting and the communication 22 byte Size of CD packets, react, reacting and the communication 76 byte Size of CD packets, react, reacting and the communication 76 byte Size of CD packets, reacting and the communication 76 byte Size of CD packets, reacting and the communication 76 byte supported Yes • Supported Yes • Supported Yes • Supported Yes • supported Yes, Via CP and loadable FB • supported Yes, Via CP and loadable FC Number of connections See online help of STEP 7 (khared parameters of the SFBs/FBs and of the SFCs of ST Communication • supported Yes, Via CP and loadable FC Number of connections 31 • usable for PG communi	— Outputs	244 byte		
communication functions / header Yes PGOP communication Yes Clobal accord routing Yes Clobal accord routing Yes Supported Yes Number of CD loops, max. 8 Number of CD packets, max. 8 Number of CD packets, receiver, max. 8 Size of CD packets, therammitter, max. 22 byte Size of CD packets (of which consistent), max. 22 byte Size of CD packets, for which consistent), max. 22 byte Size of CD packet, for which consistent), max. 76 byte Supported Yes • User data per job, max. 76 byte * supported Yes • user data per job, max. 76 byte * supported Yes • as server Yes • as client Yes (Va CP and loadable FB • supported Yes (via CP and loadable FB • usable for PG communication 31 • usable for PG communication 31 - reserved for PG communication, min. 1 - adjustable for PG communication, min. <t< td=""><td>Protocols</td><td></td></t<>	Protocols			
PG/OP communication Yes Data record routing Yes Global data communication Yes • Supported Yes • Number of GD packets, max. 8 • Number of GD packets, transmitter, max. 8 • Size of GD packets, receiver, max. 8 • Size of GD packets, receiver, max. 8 • Size of GD packets, receiver, max. 22 byte • Size of GD packets, max. 22 byte • Size of GD packets, max. 76 byte • User data per job, max. 76 byte • User data per job (of which consistent), max. 76 byte • Size of CD packets, max. 76 byte • Supported Yes • supported Yes • supported Yes • as client Yes; Via CP and loadable FB • See ontimulation Yes (via CP and loadable FB • Supported Yes; via CP and loadable FC Number of GP Gommunication 31 • assile for PG communication 31 • assile for PG communication 31 • assile for PG communication 31 • adjustable for PG communication, min. 1 • adjustable for OP communication, min. 1 • adjustable for OP communication, max. 31 • us	PROFIsafe	No		
Data record routing Yes Global data communication * • supported Yes • Number of GD poperts, transmitter, max. 8 • Number of GD packets, transmitter, max. 8 • Number of GD packets, transmitter, max. 8 • Size of GD packet, transmitter, max. 22 byte 57 communication * • User data per job, max. 76 byte • User data per job (of which consistent), max. 76 byte * Supported Yes • as server Yes • as server Yes • as server Yes • as server Yes • supported Yes • user data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of 57 Communication) • Signoprided Yes; Via CP and loadable FB • usable for PG communication 31 - adjustable for PG communication 1 - adjustable for PG communication 1 - adjustable for PG communication, min. 1 - adjustable for OP communication, max. 31 - reserved for OP communi	communication functions / header			
Global data communication Yes • Number of GD packets, max. 8 • Size of GD packets (of which consistent), max. 22 byte Size of GD packet (of which consistent), max. 22 byte Size of GD packet, for Max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (Yet as a construction) SS compatible communication Yes; Via CP and loadable FB • usable for PG communication 31 - reserved for FG communication 1 - adjustable for PG communication, min. 1 - adjustable for OP communication, min. 1 - adjustable for OP communication, min. 31 - reserved for F T basic communication, min. 31 - adjustable for OP communicati	PG/OP communication	Yes		
Global data communication Yes • Number of GD packets, max. 8 • Size of GD packets (of which consistent), max. 22 byte Size of GD packet (of which consistent), max. 22 byte Size of GD packet, for Max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 84 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte; 76 bytes (Yet as a construction) SS compatible communication Yes; Via CP and loadable FB • usable for PG communication 31 - reserved for FG communication 1 - adjustable for PG communication, min. 1 - adjustable for OP communication, min. 1 - adjustable for OP communication, min. 31 - reserved for F T basic communication, min. 31 - adjustable for OP communicati	Data record routing	Yes		
• supported Yes • Number of GD loops, max. 8 • Number of GD packets, max. 8 • Number of GD packets, max. 8 • Stree of GD packets, reaver, max. 8 • Stree of GD packets, reaver, max. 22 byte • Stree of GD packets, reaver, max. 22 byte • Stree of GD packets, reaver, max. 22 byte • Stree of GD packet, for max. 22 byte • Stree of GD packets, max. 76 byte, 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) • User data per job, max. 76 byte, 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) • Supported Yes • user data per job, max. 76 byte, 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) • supported Yes • user data per job, max. 76 byte, 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) • Stee online help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of S7 Communication) • User data per job, max. 32 • supported Yes: via CP and loadable FC Number of connections 32 • overall 32 • usable for PC communication 1 - adjustable for PC communication, min. 1 - adjustable for OP communication, min. 1				
• Number of GD loops, max. 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, funktion consistent), max. 22 byte SZ basic communication 22 byte SZ basic communication Yes • User data per job, job, max. 76 byte; • User data per job, of of which consistent), max. 76 byte; SZ communication Yes • supported Yes • as server Yes • as server Yes • as server Yes; Via CP and loadable FB • User data per job, max. SFCs/FCs ST Communication • User data per job, max. SFCs/FCs ST Communication • User data per job, max. SFCs/FCs ST Communication • Supported Yes; via CP and loadable FB • usable for PC communication 31 • subable for PC communication, min. 1 - adjustable for PC communication, min. 1 - adjustable for PC communication, min. 1 - adjustable for OP communication, m		Yes		
• 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. 22 byte • Size of GD packet (of which consistent), max. 22 byte ST basic communication 76 byte, 76 byt				
• Number of GD packets, transmitter, max. 8 • Number of GD packets, receiver, max. 8 • Size of GD packets, max. 22 byte Size of GD packet (of which consistent), max. 22 byte Size of GD packet (of which consistent), max. 22 byte Size of GD packet (of which consistent), max. 76 byte; • User data per job, max. 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Size of GD packet (of which consistent), max. 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Size of GD packet (of which consistent), max. 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Size of GD packet (of which consistent), max. 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Size of GD packet (of which consistent), max. 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Size of GD packet (or Communication Yes • use of lot packet (or Communication) Yes • User data per job, max. Size on Illne help of STEP 7 (shared parameters of the SFBs/FBs and of the SFCs/FCs of SY Communication) Size of PG communication 31 • usable for PG communication 31 - reserved for PG communication 3	•			
• Number of GD packets, reactiver, max. 8 • Size of GD packets, max. 22 byte • Size of GD packets, max. 22 byte S7 basic communication Yes • upported Yes • 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 Yes • 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 Yes • 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 Yes • user data per job, max. See online help of STEP 7 (shared parameters of the SFBs/FBs and SFCs/FCS of S7 Communication, 1 • usable for PG communication 31 • usable for PG communication, min. 1 - adjustable for PG communication, min. 1 - adjustable for OP communication, min. 1 - adjustable for S7 basic communication <td>-</td> <td></td>	-			
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		30		
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Process diagnostic messages Yes		20: Depending on the configured corrections for DO/OD and 07 basis		
Process diagnostic messages Yes	Number of login stations for message functions, max.			
	Process diagnostic messages	Yes		
	· · · · · · · · · · · · · · · · · · ·			
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					
Forcing	Yes				
 Forcing, variables 	Inputs, outputs				
Number of variables, max.	10				
Diagnostic buffer					
• present	Yes				
 Number of entries, max. 	500				
— adjustable	No				
— of which powerfail-proof	100; Only the last 100 entries	are retained			
Number of entries readable in RUN, max.	499				
— adjustable	Yes; From 10 to 499				
— preset	10				
Service data					
• can be read out	Yes				
Ambient conditions					
Ambient temperature during operation					
• min.	0°C				
• max.	60 °C				
onfiguration / header					
Configuration software					
• STEP 7	Yes; STEP 7 V5.5 + SP1 or h 203	igher or STEP 7 V5.3 + S	P2 or higher with HSP		
STEP 7 Lite	No				
configuration / programming / header	110				
Command set	see instruction list				
Nesting levels	8				
System functions (SFC)	see instruction list				
System functions (SFC) System function blocks (SFB)	see instruction list				
Programming language	see instruction list				
	Yes				
— FBD	Yes				
— STL	Yes				
— STL — SCL	Yes				
— SCL — CFC					
— GRAPH	Yes				
	Yes				
— HiGraph®	Yes				
Know-how protection	Yaa				
User program protection/password protection	Yes				
Block encryption	Yes; With S7 block Privacy				
Dimensions	40				
Width	40 mm				
Height	125 mm				
Depth	130 mm				
Veights	000				
Weight, approx.	360 g				
Classifications					
		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	3				
General Product App	roval				EMV
Manufacturer Declara-			•	•	•
tion	CE	UK	(U)	<i>ا</i> لایک	
	EG-Konf.	UK CA			
For use in hazardous	locations				
	<u>FM</u>		1505		Miscellaneous
{Ex}		(VL)	IECEX	(Ex)	
ATEX		UL	IECEx	ATEX	
For use in hazard-					
ous locations	Marine / Shipping				
<u>CCC-Ex</u>		14.70 x			
<u>000-EX</u>	(3)		Ĵ&	Lloyds	(3)
	ABS	Care and Car	DNV	URS	
	ABS	BUREAU VERITAS	DNV	D/S	PRS
Marine / Shipping		Industrial Communic	ation		
	CCS (China Classifica-				
(()	tion Society)	00000			
RINA		Profibus			
last modified:		4/7/2	025 🖸		