SIEMENS

Data sheet

6ES7315-2AH14-0AB0



SIMATIC S7-300, CPU 315-2DP Central processing unit with MPI Integr. power supply 24 V DC Work memory 256 KB 2nd interface DP master/slave Micro Memory Card required

General information		
Product type designation	CPU 315-2 DP	
HW functional status	01	
Firmware version	V3.3	
Product function		
Isochronous mode	Yes	
Engineering with		
 Programming package 	STEP 7 V5.5 + SP1 or higher or STEP 7 V5.2 + SP1 or higher with HSP 218	
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)	850 mA	
Current consumption (in no-load operation), typ.	150 mA	
Inrush current, typ.	3.5 A	
l²t	1 A²·s	
Power loss		
Power loss, typ.	4.5 W	
Memory		
Work memory		
 integrated 	256 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; Guaranteed by MMC (maintenance-free)	
without battery	Yes; Program and data	
CPU processing times		
for bit operations, typ.	0.05 µs	
for word operations, typ.	0.09 µs	
for fixed point arithmetic, typ.	0.12 µs	
for floating point arithmetic, typ.	0.45 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	UH KUYIC		
Number, max.	1 024; 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 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	200		
-	Yes		
— adjustable	Z 0 to Z 7		
— preset			
Counting range			
— 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		
— 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			
Retentive data area (incl. timers, counters, flags), max.	128 kbyte		
Flag			
• Size, max.	2 048 byte		
 Retentivity available 	Yes; MB 0 to MB 2 047		
	MB 0 to MB 15		
Retentivity preset	MB 0 to MB 15		
-	MB 0 to MB 15 8; 1 memory byte		

Retentivity adjustable	Vaci via non ratain proporti on DP		
	Yes; via non-retain property on DB		
Retentivity preset Local data	Yes		
per priority class, max.	22 khuta: May, 2 KB par black		
Address area	32 kbyte; Max. 2 KB per block		
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	2 048 byte		
Outputs	2 048 byte		
 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		
Digital channels			
Inputs	16 384		
— of which central	1 024		
Outputs	16 384		
— of which central	1 024		
Analog channels			
Inputs	1 024		
— of which central	256		
Outputs	1 024		
— of which central	256		
Hardware configuration			
Number of expansion units, max.	3		
Number of DP masters			
 integrated 	1		
• via CP	4		
Number of operable FMs and CPs (recommended)			
• FM	8		
• CP, PtP	8		
• CP, LAN	10		
Rack	10		
Racks, max.	4		
Modules per rack, max.	8		
Time of day	0		
	Vec		
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	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	Yes		
• on MPI, device	Yes		

a to DD mostor	Vee: With DD alove only alove alock		
• to DP, master	Yes; With DP slave only slave clock		
• on DP, device	Yes		
• in AS, master	Yes		
• in AS, device	No		
Digital inputs			
Number of digital inputs	0		
Digital outputs			
Number of digital outputs	0		
Analog inputs			
Number of analog inputs	0		
Interfaces			
Number of PROFINET interfaces	0		
Number of RS 485 interfaces	2; MPI and PROFIBUS DP		
Number of RS 422 interfaces	0		
1. Interface			
Interface type	Integrated RS 485 interface		
Isolated	No		
Interface types			
• RS 485	Yes		
Output current of the interface, max.	200 mA		
Protocols			
• MPI	Yes		
PROFIBUS DP master	No		
PROFIBUS DP device	No		
 Point-to-point connection 	No		
MPI			
Transmission rate, max.	187.5 kbit/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		
— S7 communication, as server	Yes		
2. Interface			
Interface type	Integrated RS 485 interface		
Isolated	Yes		
Interface types			
• RS 485	Yes		
 Output current of the interface, max. 			
· · · · · · · · · · · · · · · · · · ·	200 mA		
Protocols	200 mA		
	200 mA No		
Protocols			
Protocols • MPI	No		
Protocols MPI PROFIBUS DP master	No Yes		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device	No Yes Yes		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection	No Yes Yes		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master	No Yes Yes No		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max.	No Yes Yes No 12 Mbit/s		
Protocols MPI PROFIBUS DP master PROFIBUS DP device Point-to-point connection PROFIBUS DP master Transmission rate, max. max. number of DP devices	No Yes Yes No 12 Mbit/s		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max. • max. number of DP devices Services	No Yes Yes No 12 Mbit/s 124; Per station		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max. • max. number of DP devices Services — PG/OP communication	No Yes Yes No 12 Mbit/s 124; Per station Yes		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max. • max. number of DP devices Services - PG/OP communication - Routing	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes		
Protocols MPI PROFIBUS DP master PROFIBUS DP device Point-to-point connection PROFIBUS DP master Transmission rate, max. max. number of DP devices Services — PG/OP communication — Routing — Global data communication	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes Yes No		
Protocols MPI PROFIBUS DP master PROFIBUS DP device Point-to-point connection PROFIBUS DP master Transmission rate, max. max. number of DP devices Services — PG/OP communication — Routing — Global data communication — S7 basic communication	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes No Yes; I blocks only		
Protocols MPI PROFIBUS DP master PROFIBUS DP device Point-to-point connection PROFIBUS DP master Transmission rate, max. max. number of DP devices Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes Yes No Yes; I blocks only Yes; Only server, configured on one side		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max. • max. number of DP devices Services • PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication, as client	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes Yes No Yes; I blocks only Yes; Only server, configured on one side No		
Protocols • MPI • PROFIBUS DP master • PROFIBUS DP device • Point-to-point connection PROFIBUS DP master • Transmission rate, max. • max. number of DP devices Services • PG/OP communication - Routing - Global data communication - S7 basic communication - S7 communication - S7 communication, as client - S7 communication, as server	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes No Yes; I blocks only Yes; Only server, configured on one side No Yes		
Protocols MPI PROFIBUS DP master PROFIBUS DP device Point-to-point connection PROFIBUS DP master Transmission rate, max. max. number of DP devices Services PG/OP communication PG/OP communication Sr basic communication S7 basic communication S7 communication S7 communication, as client S7 communication, as server Equidistance	No Yes Yes No 12 Mbit/s 124; Per station Yes Yes Yes No Yes; I blocks only Yes; Only server, configured on one side No Yes; Only server, configured on one side		

 activation/deactivation of DP devices 	Yes	
— max. number of DP devices that can be	8	
activated/deactivated at the same time	8	
— DPV1	Yes	
Address area		
— Inputs, max.	2 048 byte	
— Outputs, max.	2 048 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 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; 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	
 — Direct data exchange (slave-to-slave 	Yes	
communication)		
— DPV1	No	
Transfer memory		
— Inputs	244 byte	
— Outputs	244 byte	
Protocols		
	Ne	
PROFIsafe	No	
PROFIsafe communication functions / header		
PROFIsafe communication functions / header PG/OP communication	Yes	
PROFIsafe communication functions / header PG/OP communication Data record routing		
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication	Yes Yes	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported	Yes Yes	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max.	Yes Yes Yes 8	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max.	Yes Yes Yes 8 8	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max.	Yes Yes Yes 8 8 8 8	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max.	Yes Yes 8 8 8 8 8 8	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max.	Yes Yes Yes 8 8 8 8 8 8 8 8 8 22 byte	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets (of which consistent), max.	Yes Yes 8 8 8 8 8 8	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication	Yes Yes Yes 8 8 8 8 8 8 8 8 8 22 byte 22 byte	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte 22 byte	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max.	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte 22 byte 22 byte	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte 22 byte	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max.	Yes Yes Yes 8 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication	Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 22 byte 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • user data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • user proted • user data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server)	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client	Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client • User data per job, max.	Yes Yes Yes Yes 8 8 8 8 8 22 byte 22 byte 22 byte 22 byte 22 byte 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported	Yes Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte 22 byte 22 byte 22 byte 76 byte 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET	
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PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported	Yes Yes Yes Yes 8 8 8 8 8 8 8 8 22 byte 22 byte 22 byte 22 byte Yes Yes 76 byte; 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported • supported • user data per job (of which consistent), max.	Yes Yes Yes 8 8 8 8 8 22 byte 22 byte Yes 76 byte 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server	
PROFIsafe communication functions / header PG/OP communication Data record routing Global data communication • supported • Number of GD loops, max. • Number of GD packets, max. • Number of GD packets, transmitter, max. • Number of GD packets, transmitter, max. • Number of GD packets, receiver, max. • Size of GD packets, receiver, max. • Size of GD packets, max. • Size of GD packet (of which consistent), max. S7 basic communication • supported • User data per job, max. • User data per job (of which consistent), max. S7 communication • supported • as server • as client • User data per job, max. • User data per job (of which consistent), max. S5 compatible communication • supported Number of connections • overall	Yes Yes Yes Yes 8 8 8 8 8 8 22 byte 22 byte 22 byte Yes 76 byte 76 bytes (with X_SEND or X_RCV); 64 bytes (with X_PUT or X_GET as server) Yes Yes Yes Yes; Via CP and loadable FB 180 byte; With PUT/GET 240 byte; as server Yes; via CP and loadable FC	

 adjustable for PG communication, max. 	15		
 usable for OP communication 	15		
 reserved for OP communication 	1		
 adjustable for OP communication, min. 	1		
 adjustable for OP communication, max. 	15		
 usable for S7 basic communication 	12		
 reserved for S7 basic communication 	0		
 — adjustable for S7 basic communication, min. 	0		
- adjustable for S7 basic communication, max.	12		
S7 message functions			
Number of login stations for message functions, max.	16; 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			
Forcing	Yes		
 Forcing, variables 	Inputs, outputs		
Number of variables, max.	10		
Diagnostic buffer	10		
	Yes		
present Number of ontrice, max	500		
Number of entries, max.			
— adjustable	No		
— of which powerfail-proof	100; Only the last 100 entries are retained		
Number of entries readable in RUN, max.			
— adjustable	Yes; From 10 to 499		
— preset	10		
Service data			
• can be read out	Yes		
Ambient conditions			
Ambient temperature during operation			
● min.	0°0		
● max.	60 °C		
configuration / header			
Configuration software			
• STEP 7	Yes; V5.2 SP1 or higher with HW update		
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		

40 mm	
125 mm	
130 mm	
Height 125 mm Depth 130 mm Weights	
290 g	
	125 mm 130 mm

last modified:

12/8/2024 🖸