Data sheet

6ES7416-2XP07-0AB0



SIMATIC S7-400, CPU 416-2, Central processing unit with: Work memory 8 MB, (4 MB code, 4 MB data), 1st interface MPI/DP 12 Mbit/s, 2nd interface PROFIBUS DP

General information	
Product type designation	CPU 416-2
HW functional status	01
Firmware version	V7.0
Product function	
 Isochronous mode 	Yes; For PROFIBUS only
Engineering with	
 Programming package 	STEP 7 V5.4 or higher with HSP 261
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	10 μs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	0.9 A
from backplane bus 5 V DC, max.	1.1 A
from backplane bus 24 V DC, max.	300 mA; 150 mA per DP interface
from interface 5 V DC, max.	90 mA; At each DP interface
Power loss	
Power loss, typ.	4.5 W
Power loss, max.	5.5 W
Memory	
Type of memory	RAM
Work memory	
• integrated	8 Mbyte
integrated (for program)	4 Mbyte
integrated (for data)	4 Mbyte
expandable	No
Load memory	
 expandable FEPROM 	Yes; with Memory Card (FLASH)
 expandable FEPROM, max. 	64 Mbyte
integrated RAM, max.	1 Mbyte
 expandable RAM 	Yes; with Memory Card (RAM)
expandable RAM, max.	64 Mbyte
Backup	
• present	Yes
with battery	Yes; all data
without battery	No
Battery	
Backup battery	

 Backup current, typ. 	180 μA; up to 40 °C
 Backup current, max. 	850 μΑ
Backup time, max.	Dealt with in the module data manual with the secondary conditions and the factors of influence
 Feeding of external backup voltage to CPU 	5 V DC to 15 V DC
CPU processing times	
for bit operations, typ.	12.5 ns
for word operations, typ.	12.5 ns
for fixed point arithmetic, typ.	12.5 ns
for floating point arithmetic, typ.	25 ns
CPU-blocks	
DB	
Number, max.	10 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	5 000; Number range: 0 to 7999
• Size, max.	64 kbyte
FC	
Number, max.	5 000; Number range: 0 to 7999
• Size, max.	64 kbyte
ОВ	
 Number, max. 	see instruction list
• Size, max.	64 kbyte
 Number of free cycle OBs 	1; OB 1
 Number of time alarm OBs 	8; OB 10-17
 Number of delay alarm OBs 	4; OB 20-23
 Number of cyclic interrupt OBs 	9; OB 30-38 (shortest cycle that can be set = 500 μs)
 Number of process alarm OBs 	8; OB 40-47
 Number of DPV1 alarm OBs 	3; OB 55-57
 Number of isochronous mode OBs 	4; OB 61-64
 Number of multicomputing OBs 	1; OB 60
 Number of background OBs 	1; OB 90
 Number of startup OBs 	3; OB 100-102
 Number of asynchronous error OBs 	9; OB 80-88
Number of synchronous error OBs	2; OB 121, 122
Nesting depth	
 per priority class 	24
additional within an error OB	2
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	Z 0 to Z 7
Counting range	
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	0.040
• Number	2 048
Retentivity	V
— adjustable	Yes
— lower limit	0
— upper limit	2 047
— preset	No times retentive
Time range	

— lower limit	10 ms
— upper limit	9 990 s
— upper liftiit	0 000 0
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	Offinitilled (infinited offly by IVAIN capacity)
Retentive data area (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	Total working and load memory (with backup battery)
• Size, max.	16 kbyte; Size of bit memory address area
Retentivity available	Yes
Retentivity dvalidate Retentivity preset	MB 0 to MB 15
Number of clock memories	8; in 1 memory byte
Local data	o, in Thiomory byte
adjustable, max.	32 kbyte
• preset	16 kbyte
Address area	TO REST
I/O address area	
• Inputs	16 kbyte
• Outputs	16 kbyte
Process image	10 hbyto
Inputs, adjustable	16 kbyte
Outputs, adjustable	16 kbyte
Inputs, default	512 byte
Outputs, default	512 byte
consistent data, max.	244 byte
Access to consistent data in process image	Yes
Subprocess images	100
Number of subprocess images, max.	15
Digital channels	
• Inputs	131 072
— of which central	131 072
Outputs	131 072
— of which central	131 072
Analog channels	10.0.2
• Inputs	8 192
— of which central	8 192
Outputs	8 192
— of which central	8 192
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	95
Multicomputing	Yes; 4 CPUs max. (with UR1 or UR2)
Interface modules	, ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,
Number of connectable IMs (total), max.	6
Number of connectable IM 460s, max.	6
Number of connectable IM 463s, max.	4; IM 463-2
Number of DP masters	
• integrated	2
• via CP	10; CP 443-5 Extended
• via IM 467	4
Mixed mode IM + CP permitted	No; IM 467 cannot be used jointly with CP 443-5 Ext. or CP 443-1 in PROFINET IO mode
via interface module	0
 Number of pluggable S5 modules (via adapter capsule in central device), max. 	6
Number of IO Controllers	
• integrated	0
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1 types in PROFINET IO mode
Number of operable FMs and CPs (recommended)	

• FM	Limited by number of slots and number of connections
CP, PtP PPOFIRIS and Ethernet CPs	CP 440: Limited by number of slots; CP 441: limited by number of connections
PROFIBUS and Ethernet CPs	14; In total max. 10 CPs as DP master and PROFINET controller, of which up to 10 IMs or CPs as DP master and up to 4 CPs as PROFINET controller
Slots	
required slots	1
Time of day	
Clock	.,
Hardware clock (real-time)	Yes
retentive and synchronizable	Yes
• Resolution	1 ms
Deviation per day (buffered), max.	1.7 s; Power off
Deviation per day (unbuffered), max.	8.6 s; For power On
Operating hours counter • Number	16
	0 to 15
Number/Number rangeRange of values	
-	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
Granularity retentive	1 h Yes
Clock synchronization	100
supported	Yes
• to MPI, master	Yes
• to MPI, slave	Yes
• to DP, master	Yes
• to DP, slave	Yes
• in AS, master	Yes
• in AS, slave	Yes
on Ethernet via NTP	No; Via CP
• to IF 964 DP	No
Time difference in system when synchronizing via	
● MPI, max.	200 ms
Interfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFIBUS DP
Number of RS 485 interfaces	2; Combined MPI / PROFIBUS DP and PROFIBUS DP
	2, Combined WF17 FROFIBOS DF and FROFIBOS DF
1. Interface	2, Collibilied WF1 / FROFIBUS DF and FROFIBUS DF
	MPI/PROFIBUS DP
1. Interface	
1. Interface Interface type	MPI/PROFIBUS DP
1. Interface Interface type Isolated	MPI/PROFIBUS DP
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max.	MPI/PROFIBUS DP Yes
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols	MPI/PROFIBUS DP Yes Yes 150 mA
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI	MPI/PROFIBUS DP Yes Yes 150 mA
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave	MPI/PROFIBUS DP Yes Yes 150 mA
1. Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes
1. Interface Interface type Isolated Interface types • RS 485 • Output current of the interface, max. Protocols • MPI • PROFIBUS DP master • PROFIBUS DP slave MPI • Number of connections	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max.	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services PG/OP communication Routing	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services — PG/OP communication — Routing — Global data communication — S7 basic communication — S7 communication — S7 communication — S7 communication, as client	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication, as client S7 communication, as server	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication Routing S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server PROFIBUS DP master Number of connections, max.	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
Interface Interface type Isolated Interface types RS 485 Output current of the interface, max. Protocols MPI PROFIBUS DP master PROFIBUS DP slave MPI Number of connections Transmission rate, max. Services PG/OP communication Routing Global data communication S7 basic communication S7 communication S7 communication S7 communication, as client S7 communication, as server	MPI/PROFIBUS DP Yes Yes 150 mA Yes Yes Yes Yes Yes 44; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Y

Services	
— PG/OP communication	Yes
PG/OP communication Routing	Yes; S7 routing
-	
— Global data communication	No Yes
— S7 basic communication	
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
— Equidistance	Yes
— Isochronous mode	Yes
— SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes
 — Direct data exchange (slave-to-slave communication) 	Yes
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Inputs, max. — Outputs, max.	2 kbyte
	2 noyle
User data per DP slave	244 buto
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
 Number of connections 	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
 Transmission rate, max. 	12 Mbit/s
 automatic baud rate search 	No
 Address area, max. 	32; Virtual slots
 User data per address area, max. 	32 byte
— of which consistent, max.	32 byte
Services	
— PG/OP communication	Yes; with interface active
— Routing	Yes; with interface active
 Global data communication 	No
 S7 basic communication 	No
— S7 communication	Yes
 — S7 communication, as client 	Yes
 S7 communication, as server 	Yes
 Direct data exchange (slave-to-slave 	No
communication)	
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
2. Interface	
Interface type	PROFIBUS DP
Isolated	Yes
Number of connection resources	32
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
PROFIBUS DP master	
Number of connections, max.	32
Transmission rate, max. Transmission rate, max.	12 Mbit/s
Transmission rate, max.Number of DP slaves, max.	12 Molius 125
	1EU
Services	

— PG/OP communication	Yes
Routing Global data communication	Yes; S7 routing No
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication — S7 communication, as client	Yes
— S7 communication, as circle — S7 communication, as server	Yes
— Equidistance	Yes
Equidistance Isochronous mode	Yes
— SYNC/FREEZE	Yes
Activation/deactivation of DP slaves	Yes
Activation/deactivation of DF slaves Direct data exchange (slave-to-slave)	Yes
communication)	165
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
— User data per DP slave, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
Number of connections	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
Transmission rate, max.	12 Mbit/s
Address area, max.	32
User data per address area, max.	32 byte
— of which consistent, max.	32 byte
Services	
— Routing	Yes; with interface active
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
SIMATIC communication	
S7 routing	Yes
Open IE communication	
• ISO-on-TCP (RFC1006)	Via CP 443-1 and loadable FB
— Data length, max.	1 452 bytes via CP 443-1 Adv.
Web server	
 supported 	No
Isochronous mode	
Equidistance	Yes
Number of DP masters with isochronous mode	2
User data per isochronous slave, max.	244 byte
shortest clock pulse	1 ms; 0.5 ms without use of SFC 126, 127
max. cycle	32 ms
communication functions / header	
PG/OP communication	Yes
 Number of connectable OPs without message processing 	95
 Number of connectable OPs with message processing 	95; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
• supported	Yes
 Number of GD loops, max. 	16
 Number of GD packets, transmitter, max. 	16
 Number of GD packets, receiver, max. 	32
 Size of GD packets, max. 	54 byte
 Size of GD packet (of which consistent), max. 	1 variable
• Size of GD packet (of which consistent), max.	

S7 basic communication	
communication function / S7 basic communication	Yes
 User data per job, max. 	76 byte
User data per job (of which consistent), max.	1 variable
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
 User data per job, max. 	64 kbyte
User data per job (of which consistent), max.	462 byte; 1 variable
S5 compatible communication	
• supported	Yes; Via FC AG_SEND and AG_RECV, max. via 10 CP 443-1 or 443-5
 User data per job, max. 	8 kbyte
 User data per job (of which consistent), max. 	240 byte
Number of simultaneous AG-SEND/AG-RECV orders per	64/64
CPU, max.	
Standard communication (FMS)	V V OD 11 111 ED
• supported	Yes; Via CP and loadable FB
Number of connections	00
• overall	96
usable for PG communication	95
— reserved for PG communication	1
adjustable for PG communication, max.	0
usable for OP communication	95
 reserved for OP communication 	1
 adjustable for OP communication, max. 	0
 usable for S7 basic communication 	94
 reserved for S7 basic communication 	0
 adjustable for S7 basic communication, max. 	0
 usable for S7 communication 	94
 reserved for S7 communication 	0
 adjustable for S7 communication, max. 	0
usable for routing	47
 reserved for routing 	0
— adjustable for routing, max.	0
S7 message functions	
Number of login stations for message functions, max.	95; Max. 95 with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 16 with Alarm, Alarm_8, Alarm_8P, Notify and Notify_8 (e.g. WinCC)
Symbol-related messages	Yes
SCAN procedure	Yes
Program alarms	Yes
Process diagnostic messages	Yes
simultaneously active Alarm-S blocks, max.	1 000; Simultaneously active alarm_S/SQ blocks or alarm_D/DQ blocks
Alarm 8-blocks	Yes
 Number of instances for alarm 8 and S7 communication blocks, max. 	4 000
• preset, max.	600
Process control messages	Yes
Number of archives that can log on simultaneously (SFB 37 AR_SEND)	32
Number of messages	
• overall, max.	1 024
• in 100 ms grid, max.	128
• in 500 ms grid, max.	512
• in 1000 ms grid, max.	1 024
Number of additional values	
with 100 ms grid, max.	1
• with 500, 1000 ms grid, max.	10
Test commissioning functions	
Status block	Yes; Up to 16 simultaneously
Single step	Yes
g	
Number of breakpoints	16

Status/control	V
Status/control variable	Yes; Up to 16 variable tables
Variables	Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters
Number of variables, max.	70; Status/control
Forcing	
Forcing	Yes
 Forcing, variables 	Inputs, outputs, bit memories, peripheral inputs, peripheral outputs
 Number of variables, max. 	512
Diagnostic buffer	
• present	Yes
 Number of entries, max. 	3 200
— adjustable	Yes
— preset	120
Service data	
• can be read out	Yes
tandards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	100
• ATEX	ATEX II 3G Ex nA IIC T4 Gc
mbient conditions	ATEXTI 30 EXTIN IIO 14 00
Ambient temperature during operation	0.00
• min.	0°C
• max.	60 °C
onfiguration / header	
Configuration software	· ·
• STEP 7	Yes
configuration / programming / header	
Command set	see instruction list
Nesting levels	7
 Access to consistent data in process image 	Yes
 System functions (SFC) 	see instruction list
System function blocks (SFB)	see instruction list
Programming language	
— LAD	Yes
	Yes Yes
— LAD	
— LAD — FBD	Yes
— LAD — FBD — STL	Yes Yes
— LAD — FBD — STL — SCL	Yes Yes Yes
— LAD — FBD — STL — SCL — CFC	Yes Yes Yes Yes
— LAD — FBD — STL — SCL — CFC — GRAPH	Yes Yes Yes Yes Yes Yes Yes
— LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph®	Yes Yes Yes Yes Yes Yes Yes
— LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously a	Yes Yes Yes Yes Yes Yes Yes Yes SFC / header
— LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously a — DPSYC_FR	Yes Yes Yes Yes Yes Yes Yes Yes Yes 2; SFC / header 2; SFC 11; per interface
— LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® configuration / programming / number of simultaneously a — DPSYC_FR — D_ACT_DP — RD_REC	Yes Yes Yes Yes Yes Yes Yes Yes Sective SFC / header 2; SFC 11; per interface 8; SFC 12; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC	Yes Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM	Yes Yes Yes Yes Yes Yes Yes Yes Sective SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 58; per interface 8; SFC 55; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD	Yes Yes Yes Yes Yes Yes Yes Yes active SFC / header 2; SFC 11; per interface 8; SFC 12; per interface 8; SFC 59; per interface 8; SFC 58; per interface 1; SFC 57; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - WR_DPARM	Yes Yes Yes Yes Yes Yes Yes Yes SEC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 57; per interface 2; SFC 56; per interface 2; SFC 56; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - WR_DPARM - DPNRM_DG	Yes Yes Yes Yes Yes Yes Yes Yes SEC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 55; per interface 1; SFC 55; per interface 2; SFC 56; per interface 3; SFC 57; per interface 4; SFC 57; per interface 5; SFC 57; per interface 6; SFC 57; per interface 7; SFC 57; per interface 8; SFC 57; per interface 9; SFC 57; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - WR_DPARM - DPNRM_DG - RDSYSST	Yes Yes Yes Yes Yes Yes Yes Yes SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 59; per interface 8; SFC 58; per interface 1; SFC 57; per interface 2; SFC 56; per interface 3; SFC 57; per interface 4; SFC 57; per interface 5; SFC 57; per interface 6; SFC 57; per interface 8; SFC 58; per interface 8; SFC 59; per interface
- LAD - FBD - STL - SCL - CFC - GRAPH - HiGraph® configuration / programming / number of simultaneously a - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - WR_DPARM - DPNRM_DG	Yes Yes Yes Yes Yes Yes Yes Yes Active SFC / header 2; SFC 11; per interface 8; SFC 59; per interface 8; SFC 58; per interface 8; SFC 58; per interface 1; SFC 57; per interface 2; SFC 57; per interface 1; SFC 57; per interface 2; SFC 56; per interface 8; SFC 13; per interface 8; SFC 13; per interface 8; SFC 51 1; SFC 103; per interface

— WRREC	8; SFB 53; per interface, but not more than 32 across all external interfaces
Know-how protection	
 User program protection/password protection 	Yes
 Block encryption 	Yes; With S7 block Privacy
Dimensions	
Width	25 mm
Height	290 mm
Depth	219 mm
Weights	
Weight, approx.	700 g

last modified:

9/7/2023