## **SIEMENS**

## **Data sheet**

## 6AG1414-3EM07-7AB0



SIPLUS S7-400 CPU 414-3 PN/DP based on 6ES7414-3EM07-0AB0 with conformal coating, -25...+70 °C, central processing unit with: work memory 4 MB, (2 MB code, 2 MB data), interfaces 1st interface MPI/DP 12 Mbps, (X1), 2nd interface ETHERNET/PROFINET (X5) 3rd interface IF 964-DP plug-in (IF1)

Figure similar

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General information	
Product type designation	CPU 414-3 PN/DP
HW functional status	01
Firmware version	V7.0
based on	6ES7414-3EM07-0AB0
Product function	
<ul> <li>Isochronous mode</li> </ul>	Yes; Via PROFIBUS DP or PROFINET interface
Engineering with	
<ul> <li>Programming package</li> </ul>	STEP 7 V5.5 or higher with HSP 262
CiR - Configuration in RUN	
CiR synchronization time, basic load	100 ms
CiR synchronization time, time per I/O byte	15 µs
Supply voltage	
Rated value (DC)	Power supply via system power supply
Input current	
from backplane bus 5 V DC, typ.	1.3 A
from backplane bus 5 V DC, max.	1.6 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.	6.5 W
Power loss, max.	8 W
Memory	
Type of memory	RAM
Work memory	
<ul><li>integrated</li></ul>	4 Mbyte
<ul><li>integrated (for program)</li></ul>	2 Mbyte
<ul><li>integrated (for data)</li></ul>	2 Mbyte
• expandable	No
Load memory	
<ul> <li>expandable FEPROM</li> </ul>	Yes; with Memory Card (FLASH)
<ul> <li>expandable FEPROM, max.</li> </ul>	64 Mbyte
<ul><li>integrated RAM, max.</li></ul>	512 kbyte
<ul><li>expandable RAM</li></ul>	Yes; with Memory Card (RAM)
• expandable RAM, max.	64 Mbyte
Backup	
• present	Yes
<ul><li>with battery</li></ul>	Yes; all data
<ul><li>without battery</li></ul>	No

Sattery Sattery	
Backup battery	
Backup current, typ.	180 µA; up to 40 °C
Backup current, max.	850 µA
Backup time, max.	Dealt with in the module data manual with the secondary conditions and the factors of influence
<ul> <li>Feeding of external backup voltage to CPU</li> </ul>	5 V DC to 15 V DC
PU processing times	
for bit operations, typ.	18.75 ns
for word operations, typ.	18.75 ns
for fixed point arithmetic, typ.	18.75 ns
for floating point arithmetic, typ.	37.5 ns
CPU-blocks	
DB	
Number, max.	6 000; Number range: 1 to 16000
• Size, max.	64 kbyte
FB	
Number, max.	3 000; Number range: 0 to 7999
Size, max.	64 kbyte
FC	
Number, max.	3 000; Number range: 0 to 7999
• Size, max.	64 kbyte
OB	
Number, max.	see instruction list
• Size, max.	64 kbyte
<ul> <li>Number of free cycle OBs</li> </ul>	1; OB 1
<ul> <li>Number of time alarm OBs</li> </ul>	4; OB 10-13
Number of delay alarm OBs	4; OB 20-23
Number of cyclic interrupt OBs	4; OB 32, 33, 34, 35 (shortest cycle that can be set = 500 μs)
Number of process alarm OBs	4; OB 40-43
Number of DPV1 alarm OBs	3; OB 55-57
Number of isochronous mode OBs	3; OB 61-63
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	1
Counters, timers and their retentivity	
S7 counter  • Number	2 048
Retentivity	۵ ۷۹۷
— adjustable	Yes
— preset	Z 0 to Z 7
Counting range	20021
— lower limit	0
— upper limit	999
IEC counter	
• present	Yes
• Type	SFB
• Number	Unlimited (limited only by RAM capacity)
S7 times	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
Number	2 048
Retentivity	
— adjustable	Yes
— preset	No times retentive
Time range	
— lower limit	10 ms

IEC timer	
• present	Yes
• Type	SFB
Number	Unlimited (limited only by RAM capacity)
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	Total working and load memory (with backup battery)
Flag	
• Size, max.	8 kbyte; Size of bit memory address area
Retentivity available	Yes
Retentivity preset	MB 0 to MB 15
<ul> <li>Number of clock memories</li> </ul>	8; in 1 memory byte
Local data	
<ul> <li>adjustable, max.</li> </ul>	16 kbyte
• preset	8 kbyte
Address area	
I/O address area	
• Inputs	8 kbyte
<ul><li>Outputs</li></ul>	8 kbyte
Process image	
Inputs, adjustable	8 kbyte
Outputs, adjustable	8 kbyte
• Inputs, default	256 byte
Outputs, default	256 byte
• consistent data, max.	244 byte
Access to consistent data in process image	Yes
Subprocess images	
Number of subprocess images, max.	15
Digital channels	
• Inputs	65 536
— of which central	65 536
Outputs	65 536
— of which central	65 536
Analog channels	03 330
· ·	4.006
• Inputs	4 096
— of which central	4 096
Outputs	4 096
— of which central	4 096
Hardware configuration	
Number of expansion units, max.	21
connectable OPs	63
Multicomputing	Yes; 4 CPUs max. (with UR1 or UR2)
Interface modules	
<ul> <li>Number of connectable IMs (total), max.</li> </ul>	6
<ul> <li>Number of connectable IM 460s, max.</li> </ul>	6
Number of connectable IM 463s, max.	4; IM 463-2
Number of DP masters	
• integrated	1
• via CP	10; CP 443-5 Extended
via IM 467	4
<ul> <li>Mixed mode IM + CP permitted</li> </ul>	No; IM 467 cannot be used jointly with CP 443-5 Ext. or CP 443-1 in
	PROFINET IO mode
• via interface module	1; IF 964-DP
<ul> <li>Number of pluggable S5 modules (via adapter capsule in central device), max.</li> </ul>	6
Number of IO Controllers	
• integrated	1
• via CP	
♥ via Oi	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
<ul><li>► FM</li><li>◆ CP, PtP</li></ul>	Limited by number of slots and number of connections  CP 440: Limited by number of slots; CP 441: Limited by number of slots and

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	2
Time of day	
Clock	Yes
<ul> <li>Hardware clock (real-time)</li> <li>retentive and synchronizable</li> </ul>	Yes
•	1 ms
Resolution     Resolution	
Deviation per day (unbuffered), max.	1.7 s; Power off
Deviation per day (unbuffered), max.  Operating hours counter.	8.6 s; For power On
Operating hours counter	40
Number/Number range	16
Number/Number range     Dangs of values	0 to 15
Range of values	SFCs 2, 3 and 4: 0 to 32767 hours SFC 101: 0 to 2^31 - 1 hours
Granularity	1h
• retentive	Yes
Clock synchronization	V
• supported	Yes
• to MPI, master	Yes
• on MPI, device	Yes
• to DP, master	Yes
• on DP, device	Yes
• in AS, master	Yes
• in AS, device	Yes
on Ethernet via NTP	Yes; As client
• to IF 964 DP	Yes
Time difference in system when synchronizing via	
Ethernet, max.	10 ms
MPI, max.	200 ms
Interfaces	
Interfaces/bus type	1 x MPI/PROFIBUS DP, 1 x PROFINET (2 ports), 1 x PROFIBUS DP (optionally pluggable)
Number of RS 485 interfaces	1; Combined MPI / PROFIBUS DP
Number of other interfaces	1; PROFIBUS DP with IF 964-DP (plug-in option; MLFB: 6ES7964-2AA04-0AB0)
1. Interface	
Interface type	MPI/PROFIBUS DP
Isolated	Yes
Interface types	
• RS 485	Yes
<ul> <li>Output current of the interface, max.</li> </ul>	150 mA
Protocols	
• MPI	Yes
<ul> <li>PROFIBUS DP master</li> </ul>	Yes
PROFIBUS DP device	Yes
MPI	
Number of connections	32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1
Transmission rate, max.	12 Mbit/s
Services	
— PG/OP communication	Yes
— Routing	Yes
Global data communication	Yes
<ul> <li>S7 basic communication</li> </ul>	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
— S7 communication, as server	Yes
PROFIBUS DP master	
Number of connections, max.	16; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1
Transmission rate, max.	12 Mbit/s

<ul> <li>max. number of DP devices</li> </ul>	32
Services	VL
— PG/OP communication	Yes
— 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 devices	Yes
Direct data exchange (slave-to-slave communication)	Yes
— DPV1	Yes
Address area	
— Inputs, max.	2 kbyte
— Outputs, max.	2 kbyte
1st interface / DP master / payload data per DP Device / head	
— user data per DP device, max.	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
<ul> <li>Number of connections</li> </ul>	16
GSD file	http://support.automation.siemens.com/WW/view/en/113652
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
<ul> <li>automatic baud rate search</li> </ul>	No
<ul> <li>Address area, max.</li> </ul>	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)	No
	No No
communication)	
communication) — DPV1	
communication)  — DPV1  Transfer memory	No
communication)  — DPV1  Transfer memory  — Inputs  — Outputs	No 244 byte
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface	No 244 byte 244 byte
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type	No 244 byte 244 byte PROFINET
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface Interface type Isolated	No 244 byte 244 byte PROFINET Yes
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate	No  244 byte 244 byte  PROFINET Yes Yes; Autosensing
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type Isolated automatic detection of transmission rate  Autonegotiation	No  244 byte 244 byte  PROFINET Yes Yes; Autosensing Yes
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type  Isolated  automatic detection of transmission rate  Autonegotiation  Autocrossing	No  244 byte  244 byte  PROFINET  Yes  Yes; Autosensing  Yes  Yes
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type Isolated automatic detection of transmission rate  Autonegotiation	No  244 byte 244 byte  PROFINET Yes Yes; Autosensing Yes
communication)  — DPV1  Transfer memory  — Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported	No  244 byte  244 byte  PROFINET  Yes  Yes; Autosensing  Yes  Yes  Yes  Yes; Assignment by higher-level IO-Controller or by the user program with
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type  Isolated  automatic detection of transmission rate  Autonegotiation  Autocrossing  Change of IP address at runtime, supported	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"
communication)  — DPV1  Transfer memory  — Inputs — Outputs  2. Interface  Interface type  Isolated automatic detection of transmission rate  Autonegotiation  Autocrossing  Change of IP address at runtime, supported  Interface types  • RJ 45 (Ethernet)	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"  Yes
communication)  — DPV1  Transfer memory  — Inputs — Outputs  2. Interface Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported  Interface types  • RJ 45 (Ethernet) • Number of ports	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"  Yes 2
communication)  — DPV1  Transfer memory  — Inputs — Outputs  2. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation  Autocrossing  Change of IP address at runtime, supported  Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"  Yes
communication)  — DPV1  Transfer memory  — Inputs — Outputs  2. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation Autocrossing  Change of IP address at runtime, supported  Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch  Protocols	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"  Yes 2 Yes
communication)  — DPV1  Transfer memory  — Inputs  — Outputs  2. Interface  Interface type Isolated automatic detection of transmission rate Autonegotiation  Autocrossing  Change of IP address at runtime, supported  Interface types  • RJ 45 (Ethernet) • Number of ports • integrated switch	PROFINET Yes Yes; Autosensing Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"  Yes 2

PROFINET CBA	Yes
PROFIBUS DP master	No
PROFIBUS DP device	No
Open IE communication	Yes
Web server	Yes
Point-to-point connection	No
Media redundancy	Yes
PROFINET IO Controller	
Transmission rate, max.	100 Mbit/s
Services	
<ul><li>— PG/OP communication</li></ul>	Yes
<ul> <li>S7 communication</li> </ul>	Yes
<ul> <li>Isochronous mode</li> </ul>	Yes; Only with IRT and the High Performance option
<ul> <li>Shared device</li> </ul>	Yes
<ul> <li>Prioritized startup</li> </ul>	Yes
<ul> <li>Number of IO devices with prioritized startup, max.</li> </ul>	32
<ul> <li>Number of connectable IO Devices, max.</li> </ul>	256
<ul><li>Of which IO devices with IRT, max.</li></ul>	64
— of which in line, max.	64
<ul> <li>Number of IO Devices with IRT and the option "high</li> </ul>	256
flexibility"	
— of which in line, max.	61
<ul> <li>Number of connectable IO Devices for RT, max.</li> </ul>	256
— of which in line, max.	256
<ul> <li>Activation/deactivation of IO Devices</li> </ul>	Yes
<ul> <li>Number of IO Devices that can be simultaneously activated/deactivated, max.</li> </ul>	8
<ul> <li>IO Devices changing during operation (partner ports), supported</li> </ul>	Yes
Number of IO Devices per tool, max.	8; 8 parallel calls of the SFC 12 "D_ACT_DP" possible per line. Max. 32 IO Devices changing during operation (partner ports) are supported
<ul> <li>Device replacement without swap medium</li> </ul>	Yes
— Send cycles	$250~\mu s,500~\mu s,1$ ms, $2$ ms, $4$ ms additionally with IRT with high performance: $250~\mu s$ to $4$ ms in 125 $\mu s$ frame
— Updating time	250 µs to 512 ms; minimum value depends on preset communication share for PROFINET IO, on the number of IO Devices and on the amount of configured user data, see PROFINET system description
Address area	,
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data consistency, max.	1 024 byte
PROFINET IO Device	. 02 . 2,10
Services	
— PG/OP communication	Yes
— S7 communication	Yes
— Isochronous mode	No
— IRT	Yes
Prioritized startup	Yes
— Phonized stanup      — Shared device	Yes
Number of IO Controllers with shared device, max.  Transfer memory.	2
Transfer memory	4.440 hydry Day IO Controller with the read device
— Inputs, max.	1 440 byte; Per IO Controller with shared device
<ul><li>Outputs, max.</li></ul>	1 110 by the Day IO Cantrallar with alarm all devices
Culama dulas	1 440 byte; Per IO Controller with shared device
Submodules	
— Number, max.	64
— Number, max.  — User data per submodule, max.	
Number, max.      User data per submodule, max.  PROFINET CBA	64 1 024 byte
<ul> <li>— Number, max.</li> <li>— User data per submodule, max.</li> <li>PROFINET CBA</li> <li>◆ acyclic transmission</li> </ul>	64 1 024 byte Yes
Number, max.  User data per submodule, max.  PROFINET CBA  • acyclic transmission  • cyclic transmission	64 1 024 byte
Number, max.  User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission  Open IE communication	64 1 024 byte Yes Yes
Number, max User data per submodule, max.  PROFINET CBA  • acyclic transmission • cyclic transmission	64 1 024 byte Yes

Keep-alive function, supported	Yes
3. Interface	
Interface type	Pluggable interface module (IF)
Plug-in interface modules	IF 964-DP (MLFB: 6ES7964-2AA04-0AB0)
Isolated	Yes
automatic detection of transmission rate	No
Interface types	
• RS 485	Yes
Output current of the interface, max.	150 mA
Protocols	
• MPI	No
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes
PROFIBUS DP master	
<ul> <li>Number of connections, max.</li> </ul>	16
<ul> <li>Transmission rate, max.</li> </ul>	12 Mbit/s
max. number of DP devices	96
Services	
— PG/OP communication	Yes
— Routing	Yes; S7 routing
— Global data communication	No
— S7 basic communication	Yes
— 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 devices	Yes
<ul> <li>— Direct data exchange (slave-to-slave communication)</li> </ul>	Yes
— DPV0	Yes
— DPV1	Yes
Address area	
— Inputs, max.	6 kbyte
— Outputs, max.	6 kbyte
User data per DP slave	
<ul> <li>user data per DP device, max.</li> </ul>	244 byte
— Inputs, max.	244 byte
— Outputs, max.	244 byte
— Slots, max.	244
— per slot, max.	128 byte
PROFIBUS DP slave	
<ul> <li>number of possible connections / at the 3rd interface / as DP slave</li> </ul>	16
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
<ul> <li>transfer rate / at the 3rd interface / as DP slave / maximum</li> </ul>	12 Mbit/s
automatic baud rate search	No
<ul> <li>Address area, max.</li> </ul>	32; Virtual slots
<ul> <li>data volume / at the 3rd interface / as DP slave / as user data per address range / maximum</li> </ul>	32 byte
<ul> <li>data volume / at the 3rd interface / as DP slave / as consistent reference data per address range / maximum</li> </ul>	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; with interface active
<ul> <li>Global data communication</li> </ul>	No
<ul> <li>S7 basic communication</li> </ul>	No
— S7 communication	Yes
<ul> <li>S7 communication, as client</li> </ul>	Yes

C7 communication as conver	Von
— S7 communication, as server	Yes
<ul> <li>— Direct data exchange (slave-to-slave communication)</li> </ul>	No
— DPV1	No
Transfer memory	110
— Inputs	244 byte
— Outputs	244 byte
Protocols	244 byte
Redundancy mode	
Media redundancy	
•	200 ms
Switchover time on line break, typ.	50
— Number of stations in the ring, max.	50
SIMATIC communication	Yes
S7 routing  Open IE communication	Tes
TCP/IP	Vacuus interreted DDOCINET interface and leadable EDa
	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.  Data length, may.	62
— Data length, max.	32 kbyte
— several passive connections per port, supported	Yes
• ISO-on-TCP (RFC1006)	Yes; Via integrated PROFINET interface or CP 443-1 Adv. and loadable FBs
Number of connections, max.	62
— Data length, max.	32 kbyte; 1 452 bytes via CP 443-1 Adv.
• UDP	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	62
— Data length, max.	1 472 byte
Web server	
• supported	Yes
<ul> <li>User-defined websites</li> </ul>	Yes
Number of HTTP clients	5
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
<ul> <li>Number of connectable OPs without message processing</li> </ul>	63
Number of connectable OPs with message processing	63; When using Alarm_S/SQ and Alarm_D/DQ
Data record routing	Yes
Global data communication	
<ul><li>supported</li></ul>	Yes
<ul> <li>Number of GD loops, max.</li> </ul>	8
<ul> <li>Number of GD packets, transmitter, max.</li> </ul>	8
<ul> <li>Number of GD packets, receiver, max.</li> </ul>	16
<ul> <li>Size of GD packets, max.</li> </ul>	54 byte
Size of GD packet (of which consistent), max.	1 variable
S7 basic communication	
• supported	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, max.      User data per job (of which consistent), max.	240 byte
Coor data per job (or willon consistent), max.	210 0310

<ul> <li>Number of simultaneous AG-SEND/AG-RECV orders per CPU, max.</li> </ul>	24/24
andard communication (FMS)	
• supported	Yes; Via CP and loadable FB
mmunication functions / PROFINET CBA (with set target commu	· · · · · · · · · · · · · · · · · · ·
Setpoint for the CPU communication load	20 %
Number of remote interconnection partners	32
<ul> <li>number of master/device functions</li> </ul>	150
total of all master/device connections	4 500
data length of all incoming master/device connections,	45 000 byte
max.  • data length of all outgoing master/device connections,	45 000 byte
max.  • Number of device-internal and PROFIBUS	1 000
<ul><li> Data length of device-internal und PROFIBUS</li></ul>	16 000 byte
interconnections, max.	2 000 h.ta
Data length per connection, max.      Data length per connection, max.	2 000 byte
performance data / PROFINET CBA / remote interconnection /	
— Sampling interval, min.	200 ms; Depending on preset communication load, number of interconnections and data length used
Number of incoming interconnections	250
Number of outgoing interconnections	250
Data length of all incoming interconnections, max.	8 000 byte
Data length of all outgoing interconnections, max.	8 000 byte
<ul> <li>— data volume / as user data for remote interconnections / in the case of acyclic transmission / with PROFINET CBA / per connection / maximum</li> </ul>	2 000 byte
performance data / PROFINET CBA / remote interconnection /	with cyclic transfer / header
— Transmission frequency: Transmission interval, min.	1 ms; Depending on preset communication load, number of interconnections and data length used
<ul> <li>Number of incoming interconnections</li> </ul>	300
<ul> <li>Number of outgoing interconnections</li> </ul>	300
<ul> <li>Data length of all incoming interconnections, max.</li> </ul>	4 800 byte
— Data length of all outgoing interconnections, max.	4 800 byte
— data volume / as user data for remote interconnections / with cyclical transfer / with PROFINET CBA / per connection / maximum	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)	2x PN OPC/1x iMap
HMI variable updating	500 ms
— Number of HMI variables	1 000
— Data length of all HMI variables, max.	32 000 byte
performance data / PROFINET CBA / PROFIBUS proxy function	·
— supported	Yes; 32 PROFIBUS slaves max. connectable
Data length per connection, max.	240 byte; Slave-dependent
umber of connections	
• overall	64
usable for PG communication	63
— reserved for PG communication	1
— adjustable for PG communication, max.	0
usable for OP communication	63
— reserved for OP communication	1
— adjustable for OP communication, max.	0
usable for S7 basic communication	62
	0
— reserved for S7 basic communication	
— reserved for S7 basic communication  — adjustable for S7 basic communication, max.	0
— adjustable for S7 basic communication, max.	0 62
<ul><li>— adjustable for S7 basic communication, max.</li><li>• usable for S7 communication</li></ul>	62
<ul> <li>— adjustable for S7 basic communication, max.</li> <li>• usable for S7 communication</li> <li>— reserved for S7 communication</li> </ul>	62 0
<ul> <li>adjustable for S7 basic communication, max.</li> <li>usable for S7 communication</li> <li>reserved for S7 communication</li> <li>adjustable for S7 communication, max.</li> </ul>	62 0 0
<ul> <li>— adjustable for S7 basic communication, max.</li> <li>• usable for S7 communication</li> <li>— reserved for S7 communication</li> </ul>	62 0

with Alarm_S/SQ and Alarm_D/DQ (OPs); max. 8 with Alarm, larm_8P, Notify and Notify_8 (e.g. WinCC)  taneously active alarm_S/SQ blocks or alarm_D/DQ blocks  16 simultaneously
16 simultaneously
16 variable tables
uts, memory bits, DBs, distributed I/Os, timers, counters
control
55111.01
ute hit mamorine distributed 1/0-
uts, bit memories, distributed I/Os
min
nax
nax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tma 95 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) 540 hPa (+3 500 m +5 000 m)
,
incl. condensation / frost (no commissioning in bedewed state), nstallation
3B2 mold, fungus and dry rot spores (with the exception of fauna); on request
T Tra

The complane and solve substances according to EN 50721-3-3  Use or shipset sea — to behippeably active substances according to EN 50721-3-9  In phenically active substances according to EN 50721-3-9  Usage in industrial process featherlogy — to preclain a substances according to EN 50721-3-9  Usage in industrial process featherlogy — Aparts Ceminally active substances acc. In EN 50054-4 — Environmental conditions for process, measuring and control systems acc. to ANSINS-YT-0-4  Roman — Horizon acc. to ANSINS-YT-0-4  Ro		
Use on shipplat sea		Yes; Class 3S4 incl. sand, dust, *
- In birdiogrality widers exbelances according to EN 60721-59 - To chemically active substances according to EN 60721-36 - To mechanically active substances according to EN 60721-36 - To mechanically active substances according to EN 60721-39 - Usage in industrial process technology - Appaint chemically active substances according to EN 6055-44 - Environmental conditions for process, measuring and control systems acc, to ANSINSA-710-4 - Environmental conditions acc, to ANSINSA-710-4 - Environmental conditions acc, to ANSINSA-710-4 - Remark Note regarding classification of environmental conditions acc to EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of the limits of EN 60721-39 disso 3C4 permissible), level College of EN 60721-39 disso 3C		
ono?1-3-6  to technically active substances according to EN 80721-3-6  to mechanically active substances according to EN 80721-3-6  to mechanically active substances according to EN 80721-3-6  Usage in industrial process technology  — Against chemically active substances acc. to EN 80564-4  — Environmental conditions for process, measuring and control systems acc. to EN 80564-4  — Environmental conditions for process, measuring and control systems acc. to EN 80721-3-3 class 3 (excluding trichicrethylene)  Proceedings for printed directly systems acc. to EN 80721-3-3 class 3 (excluding trichicrethylene)  Proceedings for printed directly benefit and ASISIS-7-104  Confinent accent for 80721-3-3 class 3 (excluding trichicrethylene)  Proceedings for printed directly benefit and ASISIS-7-104  **Confinent social to EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding trichicrethylene) benefit according to the limits of EN 80721-3-3 class 3 (excluding tric	·	V 01 000 11 15 1 1 1 1 1 1 1 1 1 1 1 1 1
degree 3).*  to mechanically active substances according to EN (0721-3-6)  Usage in industrial process technology  — Against chemically active substances acc to EN (6864-4)  — Environmental conditions for process, measuring and control systems acc to ANSI/ISA-71 L04  Remark  — Note regarding dissolication of environmental ANSI/ISA-71 L04  Conformal coating  • Coatings for printed circuit board assemblies acc, to EN (1868-4)  • Production against fouling acc, to EN 6064-3  • Military testing according to MIL-1406/862, Amendment 7  • Cualification and Performance of Electrical Insulation programming / header  • Corfiguration and Performance of Electrical Insulation programming / header  • Configuration in programming / header  • System function (SIC)  • System function (SIC)  • System function (SIC)  • System function blocks (SIP)  Programming language  — LAD  — LAD  — LAD  — LAD  — PRD	0 ,	
Experimentally active substances acc. to EN 606544  — Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04  Remark  — Note regarding classification of environmental conditions acc. to EN 60721, EN 606544 and ANSI/SA-71.04  Conformal coating  • Coatings for primed circuit board assemblies acc. to EN 61086  • Protection against fouling acc. to EN 60064-3  • Milliary festing according to MILI-46086C, Amendment 7  • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-Costular Compound for Printed Board Assemblies according to IPC-Costular according to MILI-46086C, Amendment 7  • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-Costular according to MILI-46086C, Amendment 7  • Command set  • STEP 7  • Command set  • Command set  • Command set  • System function blocks (SFB)  Programming language  — LAD  — FBD  — FBD  — FBD  — FBC — STI — Yes  Coffiguration / programming / number of simultaneously active  — CPC — Yes  Coffiguration / programming / number of simultaneously active  — PROV, FR — D, ACT _DP — RD, ACT	,	
- Against chemically active substances act. to EN 60654  - Environmental conditions for process, measuring and control systems act. to ANS/ISA-71.04  Remark  - Note regarding dissilication of environmental conditions act. to EN 60721, EN 60654.4 and ANS/ISA-71.04  - Note regarding dissilication of environmental conditions act. to EN 60721, EN 60654.4 and ANS/ISA-71.04  - Note regarding dissilication of environmental conditions act. to EN 60721, EN 60654.4 and ANS/ISA-71.04  - Note regarding dissilication of environmental conditions act. to EN 60721, EN 60654.4 and ANS/ISA-71.04  - Note of Protection against fouling act. to EN 60664-3  - Military testing according to Mill-140056C, Amendment 77  - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- Configuration of Printed Board Assemblies according to IPC- Configuration (Presented Board Assemblies according to IPC- Configuration (Programming / header  - STEP 7		Yes; Class 6S3 incl. sand, dust; *
O6654-4  Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04  Remark  Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04  Configuration Sacc. to EN 60721, EN 60654-3 and ANSI/SA-71.04  Configuration and Environmental conditions acc. to EN 67086  Coatings for printed circuit board assemblies acc. to EN 67086  Protection against fouling acc. to EN 60684-3  Military testing according to MilL-146086C, Amendment 7  Coalination and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  configuration in Nesder  Configuration in Street  *Yes  Configuration in Ansience of Section and Performance of Section and Per	Usage in industrial process technology	
Fundromental conditions for process, measuring and control systems acc. to ANS/ISA-71.04		Yes; Class 3 (excluding trichlorethylene)
Remark  Note regarding classification of environmental conditions doc. to EN 60721, EN 506544 and ANSI/SA71 0.4  Conformal coating  Coatings for printed circuit board assemblies acc. to EN 6108  Protection against fouling acc. to EN 60664. Annual file of the coating some printed circuit board assemblies acc. to EN 6108  Protection against fouling acc. to EN 60664. Amendment 7  Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Protection and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound for Printed Board Assemblies according to IPC-C-830A  Configuration / Insulating Compound Section Ist Programming Legislating Compound Section Ist Programming Legisla	<ul> <li>Environmental conditions for process, measuring</li> </ul>	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71 o.4  Conformal coating  - Coatings for printed circuit board assemblies acc. to EN 61086  - Protection against fouling acc. to EN 80664-3  - Military testing according to MiL-146058C, Amendment 7  - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- Co430A  configuration / Inseader  Configuration / Inseader  - Command set  - Nesting levels  - Nesting levels  - Ves  - System functions (SPC)  - System function sides (SPB)  - STL  - SCL  - CFC  - GRAPH  - HiGraph®  configuration / programming / number of simultaneously active  - SPC / 12, per interface  - WR, PARM  - PARM, MOD  - PARM - PARM, MOD  - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, MOD - PARM - PARM, SPC 55; per interface - WR, PARM - PARM, SPC 56; per interface - WR, PARM - PAR	Remark	
Costings for printed circuit board assemblies acc. to EN 6108 Protection against fouling acc. to EN 60664-3 Millitary testing according to MIL,1-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / header  Configuration / header  Configuration programming / header  **Command set	conditions acc. to EN 60721, EN 60654-4 and	
### Protection against fouling acc. to EN 60664-3  ### Compound for Printed Board Assemblies according to IPC-  ### Configuration of Printed Board Assemblies according to IPC-  ### Configuration Protection  ### STEP 7  ### Yes  ### Configuration / Programming / header  ### Command set  ### Nesting levels  ### Access to consistent data in process image  ### System functions (SFC)  ### System function blocks (SFB)  ### System function blocks (SFB)  ### Frogramming language  ### CACE ASSEMBLY ASS	Conformal coating	
Protection against fouling acc. to EN 60664-3  Military testing according to Mil.1-46058C, Amendment 7  Qualification and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / header  STEP 7  Configuration / programming / header  Configuration / programming / header  Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / programming / header  Configuration / programming / header  Command set  Nesting levels  Access to consistent data in process image  System functions (SFC)  System functions (SFC)  System function blocks (SFB)  Programming language  LLD  FBD  STI  SCL  CFC  CRAPH  HiGraph®  Configuration / programming / number of simultaneously active SFC / header  DPSYC_FR  D_ACT_DP  RD_REC  WR_REC  WR_REC  WR_REC  WR_PARM  PARM MOD  SSFC 59; per interface  SSFC 59; per interface, but not more than 32 across all external interfaces  Non-whom protection  SUBJECT  V		Yes; Class 2 for high reliability
Military testing according to Mil.1-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-C-430A  configuration / header  Configuration software  **STEP 7  STEP 7  Yes  configuration / programming / header  **Command set** Nesting levels  **Nesting levels  **System functions (SFC)  **System functions list  **Yes  **Yes  **Pass  **Pas		Yes; Type 1 protection
Outsilication and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  Configuration / header  Outsilication and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A  Outsilication and Performance of Electrical Insulating Configuration / Programming / Programming / Programming / Programming / Programming Insulations (SFC)  System function (SFC)  System function blocks (SFB)  Programming language  — LAD  — FBD — STL — Yes — CFC — GRAPH — HiGraph®  Configuration / programming / number of simultaneously active SFC / header  — DFSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_REC — WR_REC — WR_REC — WR_PARM — PARM_MOD — PARM_MOD — PARM_MOD — PARM_MOD — PARM_MOD — PROSPOSST — DP_TOPOL — Configuration / programming / number of simultaneously active SFB / header — PROSPSST — DP_TOPOL — Configuration / programming / number of simultaneously active SFB / header — RDSYSST — DP_TOPOL — Configuration / programming / number of simultaneously active SFB / header — RDREC — WR_PARM — PREC — RDSYSST — DP_TOPOL — SFB / SFB / per interface — WRREC — WRREC — WRREC — RDREC — WRREC	g g	
Compound for Printed Board Assemblies according to IPC-CC-830A  configuration / header  Configuration orthware		
STEP 7 Yes  configuration / programming / header  • Command set • Nesting levels • Nesting levels • System functions (SFC) • System function blocks (SFB)  Programming language  — LAD — FBD — LAD — FBD — Yes — STL — SCL — CFC — GRAPH — HiGraph®  configuration / programming / number of simultaneously active  — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD — WR_DARM — DPNRM_DG — RD_SYSST — DP,TOPOL  configuration / programming / number of simultaneously active  — SFC 13; per interface — WR_DYPOND — SFC 13; per interface — SFC 56; per interface — SFC 56; per interface — WR_DARM — DPNRM_DG — RD_SYSST — DP_TOPOL  configuration / programming / number of simultaneously active  — WR_REC — WR_DYSST — DP_TOPOL  configuration / programming / number of simultaneously active  — WR_REC — SFC 56; per interface — WR_DARM — PARM_MOD — 1; SFC 57; per interface — SFC 56; per interface — RDSYSST — DP_TOPOL  configuration / programming / number of simultaneously active  SFB 52; per interface  WR_REC — WR_REC — SFC 58; per interface — WR_DYSST — DP_TOPOL  configuration / programming / number of simultaneously active  SFB 53; per interface, but not more than 32 across all external interfaces  Know-how protection  • User program protection/password protection  • User program protection page prote	Compound for Printed Board Assemblies according to IPC-	
STEP 7  configuration / programming / header  Command set  Nesting levels  System functions (SFC) System functions (SFB) See instruction list  System functions (SFB) See instruction list  System functions (SFB) See instruction list  Programming language  LAD FBD Yes STL FBD Yes STL Yes SCL FED GRAPH Yes GRAPH Yes HIGraph® Configuration / programming / number of simultaneously active SFC / header  DPSYC_FR DPSYC_FR SEC SFC 12; per interface SFC 55; per interface WR_PARM SFC 56; per interface WR_PARM SFC 56; per interface WR_PARM SFC 56; per interface SFC 56; per interface WR_PARM DPNRM_DG SFC 13; per interface SFC 13; per interface Configuration / programming / number of simultaneously active SFC / SFC 15; per interface WR_PARM SFC 56; per interface WR_PARM SFC 57; per interface WR_PARM SFC 56; per interface WR_PARM DPNRM_DG SFC 13; per interface SFC 51; per interface Configuration / programming / number of simultaneously active SFE / SFC 55; per interface WR_PC SFC 56; per interface WR_PC SFC 57; per interface WR_PC SFC 5	configuration / header	
Command set  Nesting levels  Nesting levels  System functions (SFC)  Sommand set  Nesting levels  System function blocks (SFB)  Programming language  - LAD  - FBD  - STL  - SCL  - OFC  - GRAPH  - HiGraph®  configuration / programming / number of simultaneously active  - DPSYC_FR  - D_ACT_DP  - RDR  - RRM_MOD  - RDNSYSST  - DP_TOPOL  configuration / programming / number of simultaneously active  - SFC 13; per interface  - WR_PARM  - SFC 56; per interface  - WR_DPARM  - DPNRM_DG  - RDSYSST  - DP_TOPOL  configuration / programming / number of simultaneously active  - RDREC  - WR_REC  - WR_DPARM  - PARM_MOD  - WR_DPARM  - DPNRM_DG  - RDSYSST  - DP_TOPOL  configuration / programming / number of simultaneously active  - WR_REC  - WR_REC  - WR_DPARM  - PARM_MOD  - WR_DPARM  - DPNRM_DG  - RDSYSST  - DP_TOPOL  configuration / programming / number of simultaneously active  - WREC  - WRREC  - WRREC  - WRREC  - WRSSS 55; per interface  - WR_DPARM  - DPNRM_DG  - RDSYSST  - DP_TOPOL  configuration / programming / number of simultaneously active  - WREC  - WRREC  -	Configuration software	
Command set  Nesting levels  Access to consistent data in process image  System functions (SFC)  System function blocks (SFB)  Programming language  — LAD  — FBD — STL — PBD — STL — SCL — OFC — GRAPH — HIGraph®  Configuration / programming / number of simultaneously active  — D_ACT_DP — RD REC — WR_REC — WR_PARM — PARM —	• STEP 7	Yes
Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) See instruction list  Programming language	configuration / programming / header	
Access to consistent data in process image System functions (SFC) System function blocks (SFB)  Programming language  - LAD - FBD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Configuration / programming / number of simultaneously active SFC / sper interface - WR_PARM - PARM -	Command set	see instruction list
System functions (SFC) System function blocks (SFB)  Programming language	<ul> <li>Nesting levels</li> </ul>	7
System function blocks (SFB)  Programming language  — LAD — FBD — FBD — STL — SCL — SCL — CFC — Yes — GRAPH — HiGraph® Yes  configuration / programming / number of simultaneously active SFC / header — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_REC — WR_PARM — PARM_MOD — WR_DPARM — PARM_MOD — WR_DPARM — OPNRM_DG — RDSYSST — DP_TOPOL  Configuration / programming / number of simultaneously active SFC / l3; per interface — WR_DPARM — RDSYSST — DP_TOPOL — RDSYSST — RDSYSST — RDSYSST — RDSYEC — WRREC — WRREC — RDSYSST — RDSYEC — WRREC — WRREC — WRREC — WRREC — WRREC — RDSYSST — RDSYSS	<ul> <li>Access to consistent data in process image</li> </ul>	Yes
Programming language	<ul> <li>System functions (SFC)</li> </ul>	see instruction list
— LAD         Yes           — FBD         Yes           — STL         Yes           — SCL         Yes           — CFC         Yes           — GRAPH         Yes           — HiGraph®         Yes           confliguration / programming / number of simultaneously active SFC / header           — DPSYC_FR         2; SFC 11; per interface           — D_ACT_DP         8; SFC 12; per interface           — RD_REC         8; SFC 59; per interface           — WR_PEC         8; SFC 59; per interface           — WR_PARM         8; SFC 59; per interface           — WR_DPARM         2; SFC 56; per interface           — WR_DPARM         2; SFC 56; per interface           — DPNRM_DG         8; SFC 13; per interface           — RDSYSST         8; SFC 31; per interface           — Configuration / programming / number of simultaneously active SFB / header         RDREC           — RDREC         8; SFB 52; per interface, but not more than 32 across all external interfaces           Know-how protection         Yes           • Block encryption         Yes           Width         50 mm	System function blocks (SFB)	see instruction list
- FBD - STL - Yes - SCL - Yes - CFC - Yes - CFC - Yes - GRAPH - Yes - HIGraph® - Yes - HIGraph® - PARM_FEC - WR_PARM - PARM_MOD - PARM_MOD - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - DP_TOPOL - RDSFC - R	Programming language	
- STL - SCL - CFC - CFC - GRAPH - Yes - HiGraph® - Yes  configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR - D_ACT_DP - RD_REC - RD_REC - WR_REC - WR_REC - WR_ARM - PARM_MOD - SFC 55; per interface - WR_DARM - DPNRM_DG - RDPRM - SFC 55; per interface - WR_DARM - DPNRM_DG - SFC 56; per interface - WR_DOD - RDSYSST - DP_TOPOL - RDSYSST - RSFC 51 - DP_TOPOL - RDREC - RDREC - RDREC - RDREC - RDSYSST - RSFC 56; per interface - RDREC - RDREC - RDSYSST - RSFC 51 - SFC 56; per interface - RDREC - RDSYSST - RSFC 51 - SFC 103; per interface - RDREC - WRREC - RDREC - RDREC - WRREC - WREC -	— LAD	Yes
- SCL - CFC - GRAPH - HiGraph® - Yes  configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR - D_ACT_DP - RD_REC - RD_REC - WR_REC - WR_PARM - PARM_MOD - PARM_MOD - SFC 57; per interface - WR_DPARM - DPNRM_DG - SFC 56; per interface - WR_DPARM - DPNRM_DG - SFC 57; per interface - WR_DPARM - SFC 58; per interface - WR_DPARM - SFC 59;	— FBD	Yes
- SCL - CFC - GRAPH - HiGraph® - Yes  configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR - D_ACT_DP - RD_REC - RD_REC - WR_REC - WR_PARM - PARM_MOD - PARM_MOD - SFC 57; per interface - WR_DPARM - DPNRM_DG - SFC 56; per interface - WR_DPARM - DPNRM_DG - SFC 57; per interface - WR_DPARM - SFC 58; per interface - WR_DPARM - SFC 59;	— STL	Yes
- CFC - GRAPH - HiGraph® Yes  configuration / programming / number of simultaneously active SFC / header - DPSYC_FR - D_ACT_DP - S, SFC 12; per interface - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - SFC 59; per interface - WR_DPARM - PARM_MOD - SFC 57; per interface - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - RDFC - RDREC - S; SFB 52; per interface, but not more than 32 across all external interfaces  Know-how protection - User program protection/password protection - Ves; With S7 block Privacy  Dimensions  Width - S0 mm		Yes
- GRAPH - HiGraph® Yes  configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR - D_ACT_DP - RD_REC - RD_REC - WR_PARM - PARM - PARM SFC 55; per interface - WR_DPARM - PARM SFC 56; per interface - WR_DPARM - PARM SFC 57; per interface - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - RDSYSST - RDF_CC - SFB 52; per interface - RDREC - WRREC - WR_BEC - WRDSYSST - RDF_CC - RDSYSST - RDF_CC - RDSYSST - RDF_CC	— CFC	Yes
- HiGraph® Yes  configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR 2; SFC 11; per interface  - D_ACT_DP 8; SFC 12; per interface  - RD_REC 8; SFC 59; per interface  - WR_REC 8; SFC 59; per interface  - WR_PARM 8; SFC 55; per interface  - PARM_MOD 1; SFC 67; per interface  - WR_DPARM 2; SFC 56; per interface  - DPNRM_DG 8; SFC 13; per interface  - RDSYSST 8; SFC 13; per interface  - RDSYSST 8; SFC 51  - DP_TOPOL 1; SFC 103; per interface  configuration / programming / number of simultaneously active SFB / header  - RDREC 8; SFB 52; 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 50 mm		
configuration / programming / number of simultaneously active SFC / header  - DPSYC_FR - D_ACT_DP - 8; SFC 12; per interface - RD_REC - RD_REC - WR_REC - WR_PARM - RS_FC 55; per interface - WR_PARM - PARM_MOD - 1; SFC 57; per interface - WR_DPARM - PARM_DG - WR_DPARM - 2; SFC 56; per interface - DPNRM_DG - RDSYSST - DP_TOPOL - 1; SFC 103; per interface - RDREC - RDREC - RDREC - RDREC - RDREC - WRREC - S; SFB 52; per interface, but not more than 32 across all external interfaces - WRREC - WRREC - WRREC - S; SFB 53; per interface, but not more than 32 across all external interfaces - WRREC - WRO-how protection - User program protection/password protection - Yes - Block encryption - Yes; With S7 block Privacy - Dimensions - Width - 50 mm		
DPSYC_FR D_ACT_DP S; SFC 11; per interface D_ACT_DP S; SFC 22; per interface RD_REC RD_REC S; SFC 59; per interface S; SFC 59; per interface WR_PARM S; SFC 55; per interface WR_PARM S; SFC 55; per interface PARM_MOD S; SFC 57; per interface WR_DPARM S; SFC 56; per interface PDPNRM_DG S; SFC 13; per interface RDSYSST S; SFC 51 DP_TOPOL S; SFC 103; per interface configuration / programming / number of simultaneously active SFB / header RDREC WRREC S; SFB 52; per interface, but not more than 32 across all external interfaces Know-how protection User program protection/password protection Superior Symbol Sym	·	
- D_ACT_DP - RD_REC - RD_REC - WR_REC - WR_PARM - SFC 55; per interface - WR_DPARM - PARM_MOD - 1; SFC 57; per interface - WR_DPARM - SFC 56; per interface - WR_DPARM - SFC 57; per interface - WR_DPARM - SFC 56; per interface - DPNRM_DG - RDSYSST - DP_TOPOL - SFC 103; per interface - RDREC - RDREC - WRREC - SFB 52; per interface, but not more than 32 across all external interfaces - WRREC - WRREC - WRREC - WRREC - WRREC - WRREC - SFB 53; per interface, but not more than 32 across all external interfaces - WRS 57; With S7 block Privacy - SFB With S7 block Privacy - Dimensions - Width - S0 mm		
- RD_REC - WR_REC - WR_PARM - WR_PARM - WR_PARM - WR_DPARM - WR_DP	<del>-</del>	
- WR_REC - WR_PARM - WR_PARM - WR_DARM - PARM_MOD - T; SFC 57; per interface - WR_DPARM - WR_DPARM - U; SFC 56; per interface - DPNRM_DG - RDSYSST - DP_TOPOL - T; SFC 13; per interface - RDREC - RDREC - RDREC - WRREC - WRR		
- WR_PARM - PARM_MOD - PARM_MOD - WR_DPARM - WR_DPARM - WR_DPARM - SFC 55; per interface - WR_DPARM - SFC 56; per interface - WR_DPARM - SFC 57; per interface - SFC 56; per interface - SFC 56; per interface - SFC 13; per interface - RDSYSST - SFC 51 - DP_TOPOL - SFC 103; per interface - RDREC - RDREC - WRREC	_	
- PARM_MOD 1; SFC 57; per interface - WR_DPARM 2; SFC 56; per interface - DPNRM_DG 8; SFC 13; per interface - RDSYSST 8; SFC 51 - DP_TOPOL 1; SFC 103; per interface  configuration / programming / number of simultaneously active SFB / header - RDREC 8; SFB 52; per interface, but not more than 32 across all external interfaces - 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 50 mm		
- WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDREC - RDREC - WRREC - W	_	
- DPNRM_DG - RDSYSST - DP_TOPOL - SFC 103; per interface  configuration / programming / number of simultaneously active SFB / header - RDREC - WRREC - WRREC - WRREC - WRREC - Were program protection/password protection - User program protection/password protection - Block encryption - Block encryption - Storm Mithes - S	_	
- RDSYSST - DP_TOPOL 1; SFC 103; per interface  configuration / programming / number of simultaneously active SFB / header - RDREC - RDREC - WRREC 8; SFB 52; per interface, but not more than 32 across all external interfaces - WRREC 8; SFB 53; per interface, but not more than 32 across all external interfaces  Know-how protection  • User program protection/password protection • Block encryption Yes; With S7 block Privacy  Dimensions  Width 50 mm	_	
- DP_TOPOL 1; SFC 103; per interface  configuration / programming / number of simultaneously active SFB / header  - RDREC 8; SFB 52; per interface, but not more than 32 across all external interfaces  - WRREC 8; SFB 53; per interface, but not more than 32 across all external interfaces  Know-how protection  • User program protection/password protection • Block encryption Yes; With S7 block Privacy  Dimensions  Width 50 mm	——————————————————————————————————————	
configuration / programming / number of simultaneously active SFB / header  — RDREC — WRREC — WRREC — S; SFB 52; per interface, but not more than 32 across all external interfaces  Know-how protection  • User program protection/password protection • Block encryption  Pes; With S7 block Privacy  Dimensions  Width  50 mm		
- RDREC - WRREC 8; SFB 52; per interface, but not more than 32 across all external interfaces 8; SFB 53; per interface, but not more than 32 across all external interfaces  Know-how protection  • User program protection/password protection • Block encryption  Yes Yes; With S7 block Privacy  Dimensions  Width  50 mm	_	
— WRREC  Know-how protection  ● User program protection/password protection  ● Block encryption  Pimensions  Width  8; SFB 53; per interface, but not more than 32 across all external interfaces  Yes  Yes  Yes; With S7 block Privacy  50 mm		
Know-how protection  User program protection/password protection  Block encryption  Yes; With S7 block Privacy  Dimensions  Width  50 mm		
● User program protection/password protection     ▼es     ▼Block encryption      ▼es; With S7 block Privacy  Dimensions  Width  50 mm		ช; ๖ฅ๒ ๖๖; per interface, but not more than 32 across all external interfaces
● Block encryption Yes; With S7 block Privacy  Dimensions  Width 50 mm	·	
Dimensions Width 50 mm		
Width 50 mm		Yes; With S7 block Privacy
Height 290 mm		
	Height	290 mm

Depth	219 mm
Weights	
Weight, approx.	900 g

last modified:

5/29/2024