SIEMENS

Data sheet

6AG1416-3ES07-7AB0



SIPLUS S7-400 CPU 416-3 PN/DP based on 6ES7416-3ES07-0AB0 with conformal coating, -25...+70 °C, central processing unit with: work memory 16 MB, (8 MB code, 8 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

E \$11.11.7.11	
General information	
Product type designation	CPU 416-3 PN/DP
HW functional status	01
Firmware version	V7.0
based on	6ES7416-3ES07-0AB0
Product function	
Isochronous mode	Yes; Via PROFIBUS DP or PROFINET interface
Engineering with	
 Programming package 	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	10 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	
integrated	16 Mbyte
integrated (for program)	8 Mbyte
integrated (for data)	8 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 µA
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
PU 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
ounters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
— 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	
Number	2 048
Retentivity	
— adjustable	Yes
— preset	No times retentive
Time range	
— lower limit	10 ms
— upper limit	9 990 s

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.	16 kbyte; Size of bit memory address area
 Retentivity available 	Yes
Retentivity preset	MB 0 to MB 15
 Number of clock memories 	8; in 1 memory byte
Local data	
adjustable, max.	32 kbyte
• preset	16 kbyte
Address area	
I/O address area	
• Inputs	16 kbyte
• Outputs	16 kbyte
Process image	
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	165
Number of subprocess images, max.	15
Digital channels	15
	131 072
• Inputs	
— of which central	131 072
• Outputs	131 072
— of which central	131 072
Analog channels	
• 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	1
• 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	1; IF 964-DP
Number of pluggable S5 modules (via adapter capsule in	6
central device), max.	
Number of IO Controllers	
	1
• integrated	
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1 types in PROFINET IO mode
• via CP	4; Max. 4 in the central controller; no mixed operation of different CP 443-1 types in PROFINET IO mode
via CP Number of operable FMs and CPs (recommended)	types in PROFINET IO mode
• via CP	

 PROFIBUS and Ethernet CPs 	14; In total max. 10 CPs as DP master and PROFINET controller, of which up
Clata	to 10 IMs or CPs as DP master and up to 4 CPs as PROFINET controller
Slots	
required slots Time of day	2
Clock Hardware clock (real time)	Yes
Hardware clock (real-time) retentive and synchronizable	Yes
retentive and synchronizableResolution	1 ms
Deviation per day (buffered), max.	1.7 s; Power off
 Deviation per day (bulleted), max. Deviation per day (unbuffered), max. 	8.6 s; For power On
Operating hours counter	6.0 S, Full power Off
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 1 h
Granularity retentive	Yes
	res
Clock synchronization	Yes
supported to MPL master.	Yes
• to MPI, master	Yes
on MPI, deviceto DP, master	Yes
	Yes
• on DP, device	Yes
• in AS, master	Yes
• in AS, device	
on Ethernet via NTP to IF 964 DP	Yes; As client
	Yes
Time difference in system when synchronizing via	10 mg
Ethernet, max. MRI may.	10 ms 200 ms
MPI, max. Interfaces	200 IIIS
	1 v MDI/DDOCIDI C DD 1 v DDOCINET /2 ports) 1 v DDOCIDI C DD
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
Output current of the interface, max.	150 mA
Protocols	
• MPI	Yes
PROFIBUS DP master	Yes
PROFIBUS DP device	Yes
MPI	
 Number of connections 	44; If a diagnostics repeater is used on the line, the number of connection
a Transmission rate may	resources on the line is reduced by 1
Transmission rate, max. Services	12 Mbit/s
Services	Voo
— PG/OP communication	Yes
— Routing	Yes
— Global data communication	Yes
— S7 basic communication	Yes
— S7 communication	Yes
— S7 communication, as client	Yes
 S7 communication, as server 	Yes
PROFIBUS DP master	
PROFIBUS DP master ● Number of connections, max.	32; If a diagnostics repeater is used on the line, the number of connection
	32; If a diagnostics repeater is used on the line, the number of connection resources on the line is reduced by 1 12 Mbit/s

max. number of DP devices	32
Services	OL.
— PG/OP communication	Yes
	Yes; S7 routing
— Routing	
— Global data communication	No Voc
— 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
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	
 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	PROFINET
	Yes
Isolated	
Isolated automatic detection of transmission rate	Yes; Autosensing
	Yes; Autosensing Yes
automatic detection of transmission rate	
automatic detection of transmission rate Autonegotiation	Yes
automatic detection of transmission rate Autonegotiation Autocrossing	Yes Yes; Assignment by higher-level IO-Controller or by the user program with
automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported	Yes Yes; Assignment by higher-level IO-Controller or by the user program with
automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types	Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF"
automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet)	Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF" Yes
automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports	Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF" Yes 2
automatic detection of transmission rate Autonegotiation Autocrossing Change of IP address at runtime, supported Interface types • RJ 45 (Ethernet) • Number of ports • integrated switch	Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF" Yes 2
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	Yes Yes; Assignment by higher-level IO-Controller or by the user program with SFB104 "IP_CONF" Yes 2 Yes

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	
— PG/OP communication	Yes
— S7 communication	Yes
 Isochronous mode 	Yes; Only with IRT and the High Performance option
— Shared device	Yes
 Prioritized startup 	Yes
 Number of IO devices with prioritized startup, max. 	32
 Number of connectable IO Devices, max. 	256
 Of which IO devices with IRT, max. 	64
— of which in line, max.	64
 Number of IO Devices with IRT and the option "high flexibility" 	256
— of which in line, max.	61
 Number of connectable IO Devices for RT, max. 	256
— of which in line, max.	256
 Activation/deactivation of IO Devices 	Yes
 Number of IO Devices that can be simultaneously activated/deactivated, max. 	8
 IO Devices changing during operation (partner ports), supported 	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
 Device replacement without swap medium 	Yes
— Send cycles	250 $\mu s,500~\mu s,1$ ms, 2 ms, 4 ms additionally with IRT with high performance: 250 μs to 4 ms in 125 μs 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	·
Services	
— PG/OP communication	Yes
— S7 communication	Yes
— Isochronous mode	No
— IRT	Yes
Prioritized startup	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	2
Transfer memory	
— Inputs, max.	1 440 byte; Per IO Controller with shared device
— Outputs max	1 440 byte: Per IO Controller with shared device
— Outputs, max.	1 440 byte; Per IO Controller with shared device
Submodules	
Submodules — Number, max.	64
Submodules — Number, max. — User data per submodule, max.	
Submodules — Number, max. — User data per submodule, max. PROFINET CBA	64 1 024 byte
Submodules — Number, max. — User data per submodule, max. PROFINET CBA • acyclic transmission	64 1 024 byte Yes
Submodules — Number, max. — User data per submodule, max. PROFINET CBA • acyclic transmission • cyclic transmission	64 1 024 byte
Submodules — Number, max. — User data per submodule, max. PROFINET CBA • acyclic transmission • cyclic transmission Open IE communication	64 1 024 byte Yes Yes
Submodules — 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	
 Number of connections, max. 	32
Transmission rate, max.	12 Mbit/s
max. number of DP devices	125
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
 Direct data exchange (slave-to-slave communication) 	Yes
— DPV0	Yes
— DPV1	Yes
Address area	
— Inputs, max.	8 kbyte
— Outputs, max.	8 kbyte
User data per DP slave	
— 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	
 number of possible connections / at the 3rd interface / as DP slave 	32
• GSD file	http://support.automation.siemens.com/WW/view/en/113652
transfer rate / at the 3rd interface / as DP slave / maximum	12 Mbit/s
automatic baud rate search	No
Address area, max.	32; Virtual slots
data volume / at the 3rd interface / as DP slave / as user data per address range / maximum	32 byte
— data volume / at the 3rd interface / as DP slave / as consistent reference data per address range / maximum	32 byte
Services	
— PG/OP communication	Yes
— Routing	Yes; with interface active
Global data communication	No
 S7 basic communication 	No
— S7 communication	Yes
 S7 communication, as client 	Yes

— S7 communication, as server	Yes
 — Direct data exchange (slave-to-slave communication) 	No
— DPV1	No
Transfer memory	
— Inputs	244 byte
— Outputs	244 byte
Protocols	
Redundancy mode	
Media redundancy	
Switchover time on line break, typ.	200 ms
Number of stations in the ring, max.	50
SIMATIC communication	
• S7 routing	Yes
Open IE communication	
• TCP/IP	Yes; via integrated PROFINET interface and loadable FBs
Number of connections, max.	94
— 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 and loadable FBs
Number of connections, max.	94
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.	94
Data length, max.	1 472 byte
Web server	2,10
• supported	Yes
User-defined websites	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	OE IIIO
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, transmitter, max. Number of GD packets, receiver, max.	32
Size of GD packets, neceiver, max.	54 byte
 Size of GD packets, fliax. 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, max. User data per job (of which consistent), max.	1 variable
S7 communication	. 10.10010
supported	Yes
as server	Yes
as client	Yes
User data per job, max.	64 kbyte
User data per job, max.User data per job (of which consistent), max.	462 byte; 1 variable
Oser data per job (of which consistent), max. S5 compatible communication	TOZ UJIC, I Valiable
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
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CPU, max.	
tandard communication (FMS)	
• supported	Yes; Via CP and loadable FB
ommunication functions / PROFINET CBA (with set target commu	nication load) / header
 Setpoint for the CPU communication load 	20 %
 Number of remote interconnection partners 	32
 number of master/device functions 	150
 total of all master/device connections 	6 000
 data length of all incoming master/device connections, max. 	65 000 byte
 data length of all outgoing master/device connections, max. 	65 000 byte
 Number of device-internal and PROFIBUS interconnections 	1 000
 Data length of device-internal und PROFIBUS interconnections, max. 	16 000 byte
Data length per connection, max.	2 000 byte
performance data / PROFINET CBA / remote interconnection /	with acyclic transfer / header
— Sampling interval, min.	200 ms; Depending on preset communication load, number of interconnection and data length used
 Number of incoming interconnections 	500
 Number of outgoing interconnections 	500
 Data length of all incoming interconnections, max. 	16 000 byte
 Data length of all outgoing interconnections, max. 	16 000 byte
 data volume / as user data for remote interconnections / in the case of acyclic transmission / with PROFINET CBA / per connection / maximum 	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
 Number of incoming interconnections 	300
 Number of outgoing interconnections 	300
 Data length of all incoming interconnections, max. 	4 800 byte
 Data length of all outgoing interconnections, max. 	4 800 byte
 data 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	1 500
— Data length of all HMI variables, max.	48 000 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	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
Number of breakpoints	16
Status/control	
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	70, Status/control
• Forcing	Yes
Forcing, variables	Inputs/outputs, bit memories, distributed I/Os
	512
Number of variables, max. Diagnostic buffer.	512
Diagnostic buffer	V
• present	Yes
Number of entries, max.	3 200
— adjustable	Yes
— preset	120
Service data	
can be read out	Yes
Standards, approvals, certificates	
CE mark	Yes
EAC (formerly Gost-R)	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	-25 °C; = Tmin
• max.	70 °C; = Tmax
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax -10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Use in stationary industrial systems	
to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request

Use on shippint see — to other metally active substances according to EN 60721-3-6 — to one-charically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60721-3-6 — to mechanically active substances according to EN 60564-4 — Environmental conditions for nocess, measuring and control systems acc. to EN 61565-8-7 to 4 — Environmental conditions for Princess in March 1987-1, EN 60864-8 and ANSI/SA7-10 at 1987-1, EN 60864-8		Yes; Class 3S4 incl. sand, dust, *
In biologically active substances according to EN 80721-3-8 to rheminally active substances according to EN 60721-3-9 to mechanically active substances according to EN 60721-3-9 to mechanically active substances according to EN 60721-3-9 Usage in industrial process technology Appaint offerincially active substances according to EN 60954-4 Environmental conditions for process, measuring and control systems acc. to ANSISSAT-10-4 Environmental conditions acc. to ANSISSAT-10-4 Note regarding classification of environmental conditions acc. to EN 60721-3 dissa 3C4 permissible), level 12-3 (sails specially substances acc. to EN 61968) Note regarding classification of environmental conditions acc. to EN 60721-3 dissa 3C4 permissible), level 12-3 (sails specially substances acc. to EN 61968) Note regarding classification of environmental conditions acc. to EN 60721-3 dissa 3C4 permissible), level 12-3 (sails specially substances acc. to EN 61968) Note regarding cancer to BN 60721, EN 60854-3 Milliary stand paccording to Mill-Ho06954, Amendment 7 Outlification and Perdomance of Electrical Insulating Compound for Printed Bland Assemblies according to IPC-6-30A Configuration Insenticy Configuratio		
60721-3-6 — to chemically active substances according to EN 60721-3-8 — to mechanically active substances according to EN 60721-3-8 — to mechanically active substances according to EN 60721-3-8 Usage in industrial process technology — Against chemically active substances acc. to EN 6054-4 — Environmental conditions for process, measuring and control systems acc. to EN 6054-4 — Environmental conditions for process, measuring and control systems acc. to ANSINSA-71-04 Remark. — Note regarding classification of environmental contributions acc. to EN 60721-5-3 disas 3CL permissible); level EC (self sprej) and lovel LSS (sit). Conformal coating. * Coatings for printed circuit board assemblies acc. to EN 61088 • Protection against fouling acc. to EN 60884-3 • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-CC-830A • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Performance of Electrical insulating Compound for Printed Board Assemblies according to IPC-CC-830A • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and active and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Assemblies according to IPC-CC-830A • Protection against fouling acc. to EN 60884-3 • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Assemblies according to IPC-CC-830A • Protection against fouling acc. to EN 60884-3 • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Assemblies according to IPC-CC-830A • Protection against fouling acc. to EN 60884-3 • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Assemblies according to IPC-CC-830A • Protection against fouling acc. to EN 60884-3 • Nillitary testing according to MIL-146086. Amendment 7 • Coatings and Assemblies according to IPC-CC-830A • Nillitary testing ac	·	Voc. Class SP2 mold and fungal apares (avaluding fauna): Class SP2 on
degree 3): to mechanically active substances according to EN (9721-3-6) Usage in industral process technology — Against chemically active substances acc to EN (9654-4) — Environmental conditions for process, measuring and control systems acc to ANSI/93-71.04 Remark — Note regarding disselfication of environmental ANSI/93-71.04 — Note regarding access to the NO721, EN edited-4 and ANSI/93-71.04 — Coartings for printed circuit board assemblies acc to EN 19721, EN edited-4 and ANSI/93-71.04 — Protection against fouling acc. to EN 0068-3 — Milliary testing according to MIL-440/956, Arnendment 7 — Qualification and Performance of Electrical Residenting Compound for Printed Board Assemblies according to IPC-CC-830A — Fig. Coartings and State of Electrical Residenting Compound for Printed Board Assemblies according to IPC-CC-830A — Notes to considered data in process image — Yes Configuration and Performance of Electrical Residenting Compound for Printed Board Assemblies according to IPC-CC-830A — Notes to considered data in process image — Yes Configuration in software — * Organization / programming / header — Configuration and Performance of Electrical Residenting Compound for Printed Board Assemblies according to IPC-CC-830A — Notes to considered data in process image — Yes Configuration in programming / header — Configuration / programming / header — Configuration / programming / header — Configuration / programming / number of simultaneously active SF6 / header — PRORC — PRORC — SFC 11, per interface — WR PARM — PRAM	0 ,	
Usage in industrial process technology Against chemically active substances acc. to EN 60654 Environmental conditions for process, measuring and control systems acc. to ANSINSA-71.04 Remark. Note regarding classification of environmental conditions acc. to EN 60721, EN 608544 and ANSINSA-71.05 Routings for printed circuit board assemblies acc. to EN 61068 Protection against fouling acc. to EN 600644 and ANSINSA-71.05 Environmental conditions acc. to EN 60721, EN 608544 and ANSINSA-71.05 Contings for printed circuit board assemblies acc. to EN 61068 Protection against fouling acc. to EN 60064-3 Miliary testing according to MIL-146058C, Amendment 7 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-Continguation / Header Command set Command set Command set Command set Command set Note regarding classification of environmental security in the set of the security of the secur	,	
Against chemically active substances acc. to EN 60694-4		Yes; Class 6S3 incl. sand, dust; *
G6654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/SA-71.04 Remark — Note regarding dissification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/SA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61968 • Protection against fouling acc. to EN 60664-3 • Milliary testing according to MilL-146856C, Amendment 7 • Coalings for printed circuit board assemblies acc. to EN 61968 • Protection against fouling acc. to EN 60664-3 • Milliary testing according to MilL-146856C, Amendment 7 • Coalings and an Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A • STEP 7 Yes Configuration in Strain • STEP 7 Yes • System function (SFC) • System function (SFC) • System function (SFC) • System function blocks (SFB) — FBD — PRD — SCL — OFC — ORAPH — HiGraph® configuration / programming / number of simultaneously active SFC / header — DPSYC_FR — D_ACT_DP — RD_REC — MR_REC — WR_PARM — PARM	Usage in industrial process technology	
Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Against chemically active substances acc. to EN	Yes; Class 3 (excluding trichlorethylene)
and control systems acc. to ANSI/SA-71.04 Remark - Notor regarding classification of environmental conditions acc. to EN 60721, EN 60054-4 and ANSI/SA-71.04 - Notor regarding classification of environmental conditions acc. to EN 60721, EN 60054-4 and ANSI/SA-71.04 - Conformal coating - Coatings for printed circuit board assemblies acc. to EN 61086 - Protection against fouling acc. to EN 6068-3 - Military testing according to MILL-146058C, Amendment 7 - Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to PC-Co-Bon. - Configuration of Printed Board Assemblies according to PC-Co-Bon. - Configuration Absolute - Command set - STEP 7 - Access to consistent data in process image - Nesting levels - Access to consistent data in process image - System function blocks (SFB) - Programming language - LAD - FBD - STL - SCL - CFC - GRAPH - HGraphib - CRAPH - HGraphib - CRAPH - HGraphib - CRAPH - DACT_DP - RD_REC - WR_REC - WR_REC - WR_REC - WR_REC - WR_REC - WR_PARM - PARM_MOD - WR_DAFAM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - DP_TOPOL - STE Configuration of programming / number of simultaneously active SFC / header - SFC 55, per interface - WR_PARM - DPNRM_DG - RDSYSST - DP_TOPOL - STC Ontinguration / programming / number of simultaneously active SFC / header - SFC 55, per interface - WR-PARM - DPNRM_DG - SFC 103, per interface - WR-PARM - DPNRC - RDSYSST - DP_TOPOL - SFC 57, per interface - WR-REC - WR-PARM - SFC 56, per interface - WR-PARM - SFC 56, per interface - WR-PARM - SFC 57, per interface - WR-PARC - WR-PARM - SFC 57, per interface - WR-PARC - WR-PARM - SFC 57, per interface - WR-PARM -		
Note regarding classification of environmental confidence size. LEN 60721, EN 60654-4 and ANSI/SA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 6108 • Coatings for printed circuit board assemblies acc. to EN 6108 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-146056C, Amendment 7 • Coalification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-330A • Military testing according to MIL-146056C, Amendment 7 • Coalification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-330A configuration / header • STEP 7 Ves Configuration / programming / header • STEP 7 • Nesting levels • Nesting levels • Nesting levels • Nesting levels • Access to consistent data in process image • System function blocks (SFB) • System function blocks (SFB) • System function blocks (SFB) • STL - FBD - FBD - FBD - FBD - FBD - FBD - FRD - FRC - FRAPH - HiGraph® - FRC - DACT OP - REC - WR_REC - PARM - PARM - FRC - WR_REC - WR_PARM - FRC - PARM - FRC - PARM - FRC - PARM - FRAM		concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
conditions acc. to EN 60721, EN 60654-4 and ANSISA-71.04 Conformal coating Continual coating Continual for printed circuit board assemblies acc. to EN 61088 Protection against fouling acc. to EN 80684-3 Military testing according to MiLI-146058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- Costana Configuration Inseader Configuration Forgramming / header Configuration / programming / header Compands et Nesting levels Nesting levels Ves System function (SPC) System function (SPC)	Remark	
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61086 Protection against fouling ace. to EN 80864-3 • Miltary testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- configuration / Peader Configuration / Peader Configuration / Peader • STEP 7 Yes Configuration / Programming / header • Command set • Nesting levels • Nesting levels • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Configuration / programming / number of simultaneously active — SFC / header — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_REC — WR_REC — WR_REC — WR_PARM — DPNRM_DG — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDR		
61086 Protection against fouling ace. to EN 80864-3 • Miltary testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- configuration / Peader Configuration / Peader Configuration / Peader • STEP 7 Yes Configuration / Programming / header • Command set • Nesting levels • Nesting levels • Nesting levels • System functions (SFC) • System function blocks (SFB) Programming language — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Configuration / programming / number of simultaneously active — SFC / header — DPSYC_FR — D_ACT_DP — RD_REC — WR_REC — WR_REC — WR_REC — WR_REC — WR_PARM — DPNRM_DG — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDRC — RDRC — RDRC — RDSYSST — DP_TOPOL — RDRC — RDSYSST — DP_TOPOL — RDRC — RDR		Yes; Class 2 for high reliability
Military testing according to Mil.1-48058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-C-230A configuration / header Configuration software *STEP 7 Yes Configuration / programming / header *Command set *Nesting levels *Access to consistent data in process image *System functions (SFC) *System functions (SFC) *System functions (SFC) *System function blocks (SFB) *Programming language -LAD -FBD -STL -SCL -CFC -GRAPH -HiGraph® -DPSYC_FR -D_ACT_DP -RD_REC -WR_REC -WR_REC -WR_PARM -PARM		
Outsification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-8-30A Configuration / header STEP 7 Yes Configuration software Step 8 Access to consistent data in process image Access to consistent data in process image System functions (SFC) System function blocks (SFB) Frogramming language — LAD — FBD — Yes — STL — Yes — STL — Yes — SCL — CFC — GRAPH — HiGraph® — Configuration / programming / number of simultaneously active — D. ACT_DP — RD_REC — WR_REC — PARM — DPRIVALD — RD — R		
Compound for Printed Board Assemblies according to IPC-CC-330A configuration / header Configuration of Neware		
Configuration software STEP 7 configuration / programming / header Conmand set Nesting levels System functions (SFC) System function blocks (SFB) System function blocks (SFB) Programming language LAD STL SSL SSL SSL SSL SSL SSL SSL SSL SSL	Compound for Printed Board Assemblies according to IPC-	Yes; Conformal coating, Class A
● STEP 7 Yes configuration / programming / header ● Command set ● Nesting levels ● Access to consistent data in process image ● System function (SFC) ● System function blocks (SFB) Programming language — LAD — FBD — LAD — FBD — STL — SCL — CFC — GRAPH — HiGraph® Configuration / programming / number of simultaneously active SFC / header — D_ACT_DP — RD_REC — WR_REC — WR_PARM — PARM_MOD — PARM_MOD — WR_DARAM — DPNRM_DG — RD_SYSST — DP, TOPOL Configuration / programming / number of simultaneously active SFC (56; per interface — WR_DYPOND — SFC (38; SFC (32); per interface — WR_DYPOND — SFC (38; SFC (32); per interface — WR_DARAM — PARM_MOD — SFC (56; per interface — WR_DARAM — DPNRM_DG — DPNRM_DG — RD_SYSST — DP_TOPOL Configuration / programming / number of simultaneously active SFB (32); per interface 8; SFC (32); per interface 8; SFC (32); per interface 8; SFC (33); per interface 9; SFC (33); per interface 10; SFC (33); per interface 11; SFC (33); per interface 12; SFC (33); per interface 13; SFC (33); per interface 14; SFB (32); per interface 15; SFB (32); per interface 16; SFB (32); per interface 17; SFC (33); per interface 18; SFB (32); per interface 19; SFB (32); per interface 10; SFB (32		
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 System functions (SFB) Yes STL STL Yes STL Yes STL Yes STL Yes STL Yes STL SCL SCR		
Command set		Voc
Command set Nesting levels Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language LAD FBD Yes STL Yes STL Yes SCL GRAPH HIGraph® Configuration / programming / number of simultaneously active SFC / see per interface WR_PARM PREC WR_PARM PARM		165
Nesting levels Access to consistent data in process image System function (SFC) System function blocks (SFB) See instruction list Programming language LAD Yes STL Yes STL Yes SCL Yes GRAPH HiGraph® Configuration / programming / number of simultaneously active SFC / header DPSYC_FR RD_ACT_DP RSC SFC 8, SFC 59; per interface WR_PARM PARM SFC 55; per interface WR_PARM PARM SFC 55; per interface WR_DPARM POPNRM_DG RSC 8, SFC 56; per interface WR_DPARM DPNRM_DG RSC 8, SFC 57; per interface SFC 17; per interface WR_DPARM SFC 56; per interface WR_DPARM SFC 57; per interface WR_DPARM SFC 58; per interface WR_DPARM SFC 59; per interface WR_DPARM SFC 56; per interface WR_DPARM SFC 57; per interface WR_DPARM SFC 58; per interface, but not more than 32 across all external interfaces WRREC WRREC WRREC SFB 53; per interface, but not more than 32 across all external interfaces Know-how protection Block encryption Ves: With S7 block Privacy Dimensions Width Dimensions		see instruction list
Access to consistent data in process image System functions (SFC) System function blocks (SFB) Programming language - LAD - FBD - FBD - FBD - STL - SCL - CFC - GRAPH - HiGraph® Configuration / programming / number of simultaneously active SFC / header - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_REC - WR_PARM - PARM - P		
System functions (SFC) System function blocks (SFB) Programming language		
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_PARM - PARM_MOD - WR_DPARM - PARM_MOD - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - DP_TOPOL - RDREC - RDSYSST - RDSYSST - RDSYSST - RDSYSST - RDSYC RS SEC_51 - RSSYC_51		
Programming language - LAD		
— LAD Yes — FBD Yes — STL Yes — SCL Yes — CFC Yes — GRAPH Yes — HiGraph® Yes — DPSYC_FR Yes — 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 57; per interface — PARM_MOD 1; SFC 57; 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 51 — DP_TOPOL 1; SFC 103; per interface configuration / programming / number of simultaneously active SFB / header - RDREC — WRREC 8; SFB 52; per interface, but not more than 32 across all external interfaces Know-how protection Yes • Block encryption Yes; With S7 block Privacy Dimensions	i i	
— FBD Yes — STL Yes — SCL Yes — CFC Yes — GRAPH Yes — HiGraph® Yes configuration / programming / number of simultaneously active SFC / header — DPSYC_FR 2; SFC 11; per interface — D_ACT_DP 8; SFC 52; per interface — RD_REC 8; SFC 59; per interface — WR_REC 8; SFC 58; per interface — WR_PARM 8; SFC 59; per interface — PARM_MOD 1; SFC 57; per interface — WR_DPARM 2; SFC 66; per interface — WR_DPARM 2; SFC 13; per interface — PDFNM_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 Know-how protection Yes • User program protection/password protection Yes; With S7 block Privacy Dimensions		Yes
- STL Yes - SCL Yes - CFC Yes - CFC Yes - GRAPH Yes - HiGraph® Yes - HiGraph® Yes SCOnfiguration / programming / number of simultaneously active SFC / header - DPSYC_FR 2; SFC 11; per interface - D_ACT_DP 8; SFC 12; per interface - PAREC 8; SFC 59; per interface - WR_REC 8; SFC 58; per interface - WR_REC 8; SFC 58; per interface - WR_PARM 8; SFC 55; per interface - WR_PARM 1; SFC 55; per interface - WR_DARM 1; SFC 57; per interface - WR_DARM 2; SFC 56; per interface - WR_DARM 2; SFC 56; per interface - WR_DARM 3; SFC 13; per interface - DPNRM_DG 8; SFC 13; per interface - RDSYSST 8; SFC 51 - DP_TOPOL 1; SFC 103; per interface - 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 - WRREC 8; SFB 53; per interface, but not more than 32 across all external interfaces - Block encryption Yes; With S7 block Privacy		
- SCL - CFC - GRAPH - HiGraph® - HiGraph® - DPSYC_FR - DPSYC_FR - D_ACT_DP - RD_REC - WR_REC - WR_PARM - PARM_MOD - PARM_MOD - WR_DPARM - DPNR_DG - DPNR_DG - RDSYSST - DP_TOPOL - RDSYSST - RSST - RDSYSST - RSST - R		
- CFC - GRAPH - HiGraph® Yes configuration / programming / number of simultaneously active SFC / header - DPSYC_FR - D_ACT_DP - CRD_REC - RD_REC - WR_PARM - PARM - PARM_MOD - PARM_MOD - SFC 55; per interface - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - RDP_TOPOL - RDREC - RSPEC - RSPEC - RSPEC - RSPEC - RSPEC - WR_DPARM - RSPESST - R		
- GRAPH - HiGraph® Yes configuration / programming / number of simultaneously active SFC / header - DPSYC_FR - D_ACT_DP - S, SFC 12; per interface - RD_REC - RD_REC - WR_PEC - WR_PARM - PARM - PARM S, SFC 55; per interface - WR_DPARM - PARM S, SFC 57; per interface - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - RDF_CC - RDF_		
- 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 - WR_DARM 8; SFC 55; per interface - WR_DARM 0D 1; SFC 57; per interface - WR_DARM 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		
configuration / programming / number of simultaneously active SFC / header - DPSYC_FR - D_ACT_DP - RD_REC - RD_REC - WR_REC - WR_PARM - PARM MOD - SFC 55; per interface - WR_DPARM - PARM_MOD - SFC 56; per interface - WR_DPARM - DPNRM_DG - RDSYSST - DP_TOPOL - RDSYSST - RDREC - WRREC - SF 55; per interface - RDREC - SF 56; per interface - RDREC - SF 57; per interface - RDREC - SF 58; per interface - RDREC - RDREC - RDREC - RDREC - SF 56; per interface, but not more than 32 across all external interfaces - RDREC - WRREC - SF 56; per interface - RDREC - RDREC - SF 56; per interface - RDREC - SF 56; per interface - RDREC - SF 56; per interface - RDREC - RDREC - SF 56; per interface - RDREC		
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 58; 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 Systems Yes; With S7 block Privacy Dimensions Width S0 mm	·	
- D_ACT_DP - RB_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 13; per interface - RDP_TOPOL - SFC 103; per interface - RDREC - RDREC - WRREC - SFB 53; per interface, but not more than 32 across all external interfaces - WRREC -		
- RD_REC - WR_REC - WR_PARM - WR_PARM - WR_PARM - PARM_MOD - WR_DPARM - PARM_MOD - WR_DPARM - WR_DP	_	
- WR_REC - WR_PARM - WR_PARM - WR_PARM - WR_DPARM - WR_		
- WR_PARM - PARM_MOD - PARM_MOD - WR_DPARM - WR_DPARM - WR_DPARM - SFC 55; per interface - WR_DPARM - SFC 56; per interface - DPNRM_DG - RDSYSST - DP_TOPOL - RDFOPOL - 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 - RDSYSST - DP_TOPOL - RDREC - RDREC - WRREC - WRRE		
- DPNRM_DG - RDSYSST - DP_TOPOL - SFC 103; per interface configuration / programming / number of simultaneously active SFB / header - RDREC - WRREC - WRREC - WRREC - Wreat - Wese program protection/password protection - User program protection/password protection - Block encryption - Block encryption - Street - With S7 block Privacy - Dimensions - Width - Street - Stre	_	
RDSYSST DP_TOPOL 1; SFC 103; per interface configuration / programming / number of simultaneously active SFB / header 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 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 - 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 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		
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 Pimensions Width Ves Yes; With S7 block Privacy 50 mm		8; SFB 53; 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