

Data sheet CPU 315SN (315-4NE23)

Technical data

Order no.	315-4NE23
Туре	CPU 315SN
General information	
Note	-
Features	Powered by SPEED7 Work memory [KB]: 1.0244.096 Integrated: Ethernet CP343-Lean Interface [RJ45]: Ethernet PG/OP communication Interface [RJ45]: active Ethernet CP343 & PG/OP-communication Interface [RS485]: MPI Interface [RS485]: PROFIBUS master/slave, PtP: ASCII, STX/ETX, 3964(R), USS master, Modbus master/slave SD/MMC card slot with locking, up to 32 modules stackable, programmable with WinPLC7, SIMATIC Manager and TIA Portal
SPEED-Bus	-
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	DC 20.428.8 V
Reverse polarity protection	yes
Current consumption (no-load operation)	270 mA
Current consumption (rated value)	1 A
Inrush current	5 A
² t	0.5 A²s
Max. current drain at backplane bus	2.5 A
Max. current drain load supply	-
Power loss	8.5 W
Load and working memory	
Load memory, integrated	4 MB
Load memory, maximum	4 MB
Work memory, integrated	1 MB
Work memory, maximal	4 MB
Memory divided in 50% program / 50% data	yes
Memory card slot	SD/MMC-Card with max. 2 GB
Hardware configuration	
Racks, max.	4
Modules per rack, max.	8 in multiple-, 32 in a single-rack configuration
Number of integrated DP master	1
Number of DP master via CP	4
Operable function modules	8
Operable communication modules PtP	8
Operable communication modules LAN	8
Status information, alarms, diagnostics	
Status display	yes
Interrupts	no
Process alarm	no

Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	possible
Supply voltage display	green LED
Group error display	red SF LED
Channel error display	none
Command processing times	
Bit instructions, min.	0.01 µs
Word instruction, min.	0.01 µs
Double integer arithmetic, min.	0.01 µs
Floating-point arithmetic, min.	0.06 µs
Timers/Counters and their retentive characteristic	S
Number of S7 counters	512
S7 counter remanence	adjustable 0 up to 512
S7 counter remanence adjustable	C0 C7
Number of S7 times	512
S7 times remanence	adjustable 0 up to 512
S7 times remanence adjustable	not retentive
Data range and retentive characteristic	
Number of flags	8192 Byte
Bit memories retentive characteristic adjustable	adjustable 0 up to 8192
Bit memories retentive characteristic preset	MB0 MB15
Number of data blocks	4095
Max. data blocks size	64 KB
Number range DBs	1 4095
Max. local data size per execution level	1024 Byte
Max. local data size per block	1024 Byte
Blocks	
Number of OBs	23
Maximum OB size	64 KB
Total number DBs, FBs, FCs	-
Number of FBs	2048
Maximum FB size	64 KB
Number range FBs	0 2047
Number of FCs	2048
Maximum FC size	64 KB
Number range FCs	0 2047
Maximum nesting depth per priority class	8
Maximum nesting depth additional within an error OB	4
Time	
Real-time clock buffered	yes
Clock buffered period (min.)	6 w
Type of buffering	Vanadium Rechargeable Lithium Battery
Load time for 50% buffering period	20 h
Load time for 100% buffering period	48 h
Accuracy (max. deviation per day)	10 s
Number of operating hours counter	8

Synchronization via MPIMaster/SlaveSynchronization via Ethernet (NTP)SlaveAddress areas (I/O)Input I/O address areaInput I/O address area8192 ByteOutput I/O address area8192 ByteProcess image adjustableyesInput process image preset256 ByteOutput process image preset256 ByteOutput process image maximal2048 ByteOutput process image maximal2048 ByteDigital inputs65536Digital outputs65536
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Digital inputs 65536 Digital outputs 65536
Digital outputs 65536
Digital inputs central 1024
Digital outputs central 1024
Integrated digital inputs -
Integrated digital outputs -
Analog inputs 4096
Analog outputs 4096
Analog inputs, central 256
Analog outputs, central 256
Integrated analog inputs -
Integrated analog outputs -
Communication functions
PG/OP channel yes
Global data communication yes
Number of GD circuits, max. 8
Size of GD packets, max. 54 Byte
S7 basic communication yes
S7 basic communication, user data per job 76 Byte
S7 communication yes
S7 communication as server yes
S7 communication as client -
S7 communication, user data per job 160 Byte
Number of connections, max. 32
Functionality Sub-D interfaces
Type X2
Type of interface RS485
Connector Sub-D, 9-pin, female
Electrically isolated yes
MPI yes
MP²I (MPI/RS232) -
DP master -
DP slave -
Point-to-point interface -
5V DC Power supply max. 90mA, isolated
24V DC Power supply max. 100mA, non-isolated

Туре	X3
Type of interface	RS485
Connector	Sub-D, 9-pin, female
Electrically isolated	yes
MPI	-
MP²I (MPI/RS232)	-
DP master	yes
DP slave	yes
Point-to-point interface	yes
5V DC Power supply	max. 90mA, isolated
24V DC Power supply	max. 100mA, non-isolated
Functionality MPI	
Number of connections, max.	32
PG/OP channel	yes
Routing	yes
Global data communication	yes
S7 basic communication	yes
S7 communication	yes
S7 communication as server	yes
S7 communication as client	-
Transmission speed, min.	19.2 kbit/s
Transmission speed, max.	12 Mbit/s
Functionality PROFIBUS master	
Number of connections, max.	32
PG/OP channel	yes
Routing	yes
S7 basic communication	yes
S7 communication	yes
S7 communication as server	yes
S7 communication as client	-
Activation/deactivation of DP slaves	yes
Direct data exchange (slave-to-slave communication)	-
DPV1	yes
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Number of DP slaves, max.	124
Address range inputs, max.	8 KB
Address range outputs, max.	8 KB
User data inputs per slave, max.	244 Byte
User data outputs per slave, max.	244 Byte
Functionality PROFIBUS slave	
Number of connections, max.	32
PG/OP channel	yes
Routing	yes
S7 communication	yes
S7 communication as server	yes
S7 communication as client	

DPV1	yes
Transmission speed, min.	9.6 kbit/s
Transmission speed, max.	12 Mbit/s
Automatic detection of transmission speed	-
Transfer memory inputs, max.	244 Byte
Transfer memory outputs, max.	244 Byte
Address areas, max.	32
User data per address area, max.	32 Byte
Functionality RJ45 interfaces	
Туре	X5
Type of interface	Ethernet 10/100 MBit
Connector	RJ45
Electrically isolated	yes
PG/OP channel	yes
Number of connections, max.	4
Productive connections	-
Fieldbus	-
Туре	X8
Type of interface	Ethernet 10/100 MBit
Connector	RJ45
Electrically isolated	yes
PG/OP channel	yes
Number of connections, max.	32
Productive connections	yes
Fieldbus	-
Point-to-point communication	
PtP communication	yes
Interface isolated	yes
RS232 interface	-
RS422 interface	-
RS485 interface	yes
Connector	Sub-D, 9-pin, female
Transmission speed, min.	150 bit/s
Transmission speed, max.	115.5 kbit/s
Transmission speed, max. Cable length, max.	115.5 kbit/s 500 m
Cable length, max.	
Cable length, max. Point-to-point protocol	500 m
Cable length, max. Point-to-point protocol ASCII protocol	500 m yes
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol	500 m yes yes
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol	500 m yes yes
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol	500 m yes yes yes -
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol USS master protocol	500 m yes yes yes - yes
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol USS master protocol Modbus master protocol	500 m yes yes yes - yes yes
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol USS master protocol Modbus master protocol Modbus slave protocol	500 m yes yes - yes yes - yes -
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol USS master protocol Modbus master protocol Modbus slave protocol Special protocols	500 m yes yes - yes yes - yes -
Cable length, max. Point-to-point protocol ASCII protocol STX/ETX protocol 3964(R) protocol RK512 protocol USS master protocol Modbus master protocol Modbus slave protocol Special protocols Ethernet communication CP	500 m yes yes yes - yes yes - -



TCP-connections SEND, RECEIVE, FETCH PASSIV, WRITE PASSIV, Connection of active and passive data handling User data per ICP connection, max. 64 KB ISO-connections SEND, RECEIVE, FETCH PASSIV, WRITE PASSIV, Connection of active and passive data handling User data per ISO connection, max. 8 KB ISO on TCP connections (RFC 1006) SEND, RECEIVE, FETCH PASSIV, WRITE PASSIV, Connection of active and passive data handling User data per ISO on TCP connection, max. 32 KB UDP-connections SEND and RECEIVE User data per UDP connection, max. 2 KB UDP-multicast-connections SEND UDP-multicast-connections SEND Ethernet open communication SEND Number of connections, max. 8 ISO on TCP connection, max. 8 KB USP-connections ative TSEND, TRCV, TCON, TDISCON User data per ISO on TCP connection, max. 8 KB USO on TCP connection, max. 8 KB USO on TCP connection, max. 8 KB User data per ISO on TCP connection, max. 8 KB User data per UDP connection, max. 1460 Byte UDP-connections ative TSEND, TRCV, TCON, TDISCON User data per UDP connection, max. 1400 Byte User data per UDP connection, max. 1400 Byte User data per UDP connection, max. <th></th> <th></th>		
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UD-connections SEND and RECEIVE User data per UDP connection, max. 2 KB UDP-multicast-connections SEND and RECEIVE (max. 8 Multicast groups) UDP-broadcast-connections SEND Ethernet Open communication SEND Number of connections, max. 8 ISO on TCP connection, RFC 1006) TSEND, TRCV, TCON, TDISCON User data per ISD on TCP connection, max. 8 KB TCP-Connections native TSEND, TRCV, TCON, TDISCON User data per ISD on TCP connection, max. 8 KB TCP-Connections native TSEND, TRCV, TCON, TDISCON User data per ISD on TCP connection, max. 8 KB UP-connections native TSEND, TRCV, TCON, TDISCON User data per UDP connection, max. 1460 Byte UDP-connections TUSEND, TURCV User data per UDP connection, max. 1472 Byte Management & diagnosis - Veb based diagnosis - NCM diagnosis - Material PPE Mounting Rail System 300 Mechanical data - User data veight <td< td=""><td>ISO on TCP connections (RFC 1006)</td><td></td></td<>	ISO on TCP connections (RFC 1006)	
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Ethernet open communication Number of connections, max. 8 ISQ on TCP connections (RFC 1006) TSEND, TRCV, TCON, TDISCON User data per ISO on TCP connection, max. 8 KB TCP-Connections native TSEND, TRCV, TCON, TDISCON User data per native TCP connection, max. 8 KB User data per al hoc TCP connection, max. 1460 Byte UDP-connections TUSEND, TURCV UDP-connections TUSEND, TURCV User data per UDP connection, max. 1472 Byte Management & diagnosis - Protocols - Web based diagnosis - NCM diagnosis - Housing Rail System 300 Mechanical data PPE Mounting Rall System 300 Mechanical data - Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Uperating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications <td>UDP-multicast-connections</td> <td>SEND and RECEIVE (max. 8 Multicast groups)</td>	UDP-multicast-connections	SEND and RECEIVE (max. 8 Multicast groups)
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TCP-Connections native TSEND, TRCV, TCON, TDISCON User data per native TCP connection, max. 8 KB User data per ad hoc TCP connection, max. 1460 Byte UDP-connections TUSEND, TURCV User data per UDP connection, max. 1472 Byte Management & diagnosis - Protocols - Web based diagnosis - NCM diagnosis - Housing - Material PPE Mounting Rail System 300 Mechanical data - Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Diperating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications - UL certification yes	ISO on TCP connections (RFC 1006)	TSEND, TRCV, TCON, TDISCON
User data per native TCP connection, max. 8 KB User data per ad hoc TCP connection, max. 1460 Byte UDP-connections TUSEND, TURCV User data per UDP connection, max. 1472 Byte Management & diagnosis - Protocols - Web based diagnosis - NCM diagnosis - Housing - Material PPE Mounting Rail System 300 Mechanical data - Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications -	User data per ISO on TCP connection, max.	8 KB
User data per ad hoc TCP connection, max. 1460 Byte UDP-connections TUSEND, TURCV User data per UDP connection, max. 1472 Byte Management & diagnosis - Protocols - Web based diagnosis - NCM diagnosis - Material PPE Mounting Rail System 300 Mechanical data 20 Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	TCP-Connections native	TSEND, TRCV, TCON, TDISCON
UDP-connectionsTUSEND, TURCVUser data per UDP connection, max.1472 ByteManagement & diagnosis-Protocols-Web based diagnosis-NCM diagnosis-MaterialPPEMountingRail System 300Mechanical data-Dimensions (WxHxD)80 mm x 125 mm x 120 mmNet weight430 gWeight including accessories-Environmental conditions-Operating temperature0 °C to 60 °CStorage temperature-UL certifications-UL certifications-UL certificationyes	User data per native TCP connection, max.	8 KB
User data per UDP connection, max. 1472 Byte Management & diagnosis - Protocols - Web based diagnosis - NCM diagnosis - NCM diagnosis - Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications uses UL certification yes	User data per ad hoc TCP connection, max.	1460 Byte
Management & diagnosis Protocols - Web based diagnosis - NCM diagnosis - NCM diagnosis - Housing - Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Diperating temperature 0 °C to 60 °C Storage temperature 0 °C to 70 °C Certifications yes	UDP-connections	TUSEND, TURCV
Protocols - Web based diagnosis - NCM diagnosis - Housing - Material PPE Mounting Rail System 300 Mechanical data - Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certification yes	User data per UDP connection, max.	1472 Byte
Web based diagnosis - NCM diagnosis - Housing - Material PPE Mounting Rail System 300 Mechanical data - Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications yes	Management & diagnosis	
NCM diagnosis - Housing PPE Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications uss UL certification yes	Protocols	-
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MountingRail System 300Mechanical dataRail System 300Dimensions (WxHxD)80 mm x 125 mm x 120 mmNet weight430 gWeight including accessories-Gross weight-Environmental conditions-Operating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertifications-UL certificationyes	Housing	
Mechanical data Dimensions (WxHxD) 80 mm x 125 mm x 120 mm Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Material	PPE
Dimensions (WxHxD)80 mm x 125 mm x 120 mmNet weight430 gWeight including accessories-Gross weight-Environmental conditions-Operating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsUL certificationUL certificationyes	Mounting	Rail System 300
Net weight 430 g Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification	Mechanical data	
Weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Dimensions (WxHxD)	80 mm x 125 mm x 120 mm
Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Net weight	430 g
Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Weight including accessories	
Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification	Gross weight	-
Storage temperature -25 °C to 70 °C Certifications UL certification UL certification yes	Environmental conditions	
Certifications UL certification yes	Operating temperature	0 °C to 60 °C
UL certification yes	Storage temperature	-25 °C to 70 °C
UL certification yes	Certifications	
		yes
		yes