SIEMENS

Data sheet

6ES7341-1CH02-0AE0



SIMATIC S7-300, CP 341 Communications processor with RS422/485 interface incl. configuration package on CD

Figure similar

General information		
Product type designation	CP 341	
Product function		
Protection function		
Engineering with		
Integrated drive control		
Operating mode		
Operator control and monitoring		
Process images		
User administration		
Alarms		
Recipes/user archives		
Display		
Line display		
Resolution (pixels)		
Control elements		
Input device		
Keyboard fonts		
Touch operation		
Connection type		
Special operator controls		
Frame size/design		
Ergonomics		
Supply voltage		
Rated value (DC)		
• 24 V DC	Yes	
Line frequency		
Mains filter		
Mains buffering		
Load voltage L+		
Digital inputs		
Load voltage 1L+		
Load voltage 2L+		
Load voltage L1		
Auxiliary voltage 1L+, load voltage 2L+		
Input voltage		

Input voltage acc. to VDE		
Input voltage acc. to VDL		
Line frequency		
Input current		
	100 mA	
from supply voltage L+, max.	70 mA	
from backplane bus 5 V DC, max.	70 mA	
Output current		
horizontal installation		
vertical installation		
Encoder supply		
Output current		
5 V encoder supply		
24 V encoder supply		
Additional 24 V encoder supply		
Power loss		
Power loss, typ.	1.6 W	
Power loss, max.	2.4 W	
Memory		
Work memory		
Working memory for additional functions		
Battery		
Design		
CPU-blocks		
DB		
FB		
FC		
Counters, timers and their retentivity		
S7 counter		
IEC counter		
S7 times		
Data areas and their retentivity		
Flag		
Address area		
I/O address area		
of which distributed		
per integrated IO subsystem		
Process image		
Subprocess images		
Digital channels		
Analog channels		
Addressing volume		
Hardware configuration		
Formation of potential groups		
Module exchange		
Interface modules		
Number of DP masters		
Number of IO Controllers		
Number of operable FMs and CPs (recommended)		
Expansion modules		
Rack		
Submodules		
Selection of BaseUnit for connection variants		
PtP CM		
Time of day		
Clock		
Operating hours counter		
Time switching clocks		

Disital insula
Digital inputs
Number of simultaneously controllable inputs
all mounting positions
horizontal installation
Digital input functions, parameterizable
Input voltage
Input current
for 10 k switched contact
Internal preparation time
Input delay (for rated value of input voltage)
for standard inputs
for interrupt inputs
Encoder connection
Connection method
Digital outputs
Digital output functions, parameterizable
Control supply voltage
Switching capacity of the outputs
Load resistance range
Trend key points E
Output voltage
Output current Output delay with resistive load
Parallel switching of two outputs
Switching frequency
Total current of the outputs
horizontal installation
Total current of the outputs (per group)
all mounting positions
horizontal installation
vertical installation
Total current of the outputs (per module)
all mounting positions
horizontal installation
Pulse output (passive)
Frequency output
Relay outputs
Integrated high-speed cams
Analog inputs
Input ranges
Measuring range
Input ranges (rated values), voltages
Input ranges (rated values), currents
Input ranges (rated values), thermocouples
Input ranges (rated values), resistance thermometer
Input ranges (rated values), resistors
Input ranges (rated values), strain gauges (full bridges)
Thermocouple (TC)
Characteristic linearization
Analog outputs
Output ranges, voltage
Output ranges, current
Connection of actuators
Load impedance (in rated range of output)
Analog value generation for the inputs
Integration and conversion time/resolution per channel
Analog value generation for the outputs

Integration and conversion time/resolution per channel		
Encoder		
Connection of signal encoders		
Connectable encoders		
Incremental encoder		
Encoder signals, incremental encoder (symmetrical)		
Encoder signals, incremental encoder (asymmetrical)		
Encoder signals, absolute encoder (SSI)		
Encoder signals, IEPE		
Drive axis		
EC motor		
Errors/accuracies		
Operational error limit in overall temperature range		
Basic error limit (operational limit at 25 °C)		
Power electronics		
Control of heating elements		
Load connection type		
Setpoint input		
Heating power		
Interfaces		
Number of interfaces		
	1; Isolated 0.3 kbit/s	
Transmission rate, min.	0.3 KDI/S 115.2 kbit/s	
Transmission rate, max. Video interfaces	115.2 NUI/5	
Touch interfaces		
PROFIBUS DP		
PROFIBUS PA		
Supports protocol for PROFINET IO		
PROFINET functions		
Industrial Ethernet		
Point-to-point connection		
Cable length, max.	1 200 m	
supported printers	Serial printers	
Connector type	15-pin sub D socket	
Integrated protocol driver		
— 3964 (R)	Yes; not with RS 485	
— ASCII	Yes	
— RK 512	Yes; not with RS 485	
Telegram length, max.		
— 3964 (R)	4 096 byte	
— ASCII	4 096 byte	
— RK 512	4 096 byte	
Transmission rate, RS 422/485		
— with 3964 (R) protocol, max.	115.2 kbit/s	
— with ASCII protocol, max.	115.2 kbit/s	
— with printer driver, max.	115.2 kbit/s	
— with RK 512 protocol, max.	115.2 kbit/s	
ET-Connection		
EtherNet/IP		
AS-Interface		
WLAN		
1. Interface		
Interface types		
Protocols		
MPI		
PROFIBUS DP master		

Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
Open IE communication
CAN
BACnet
2. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
Services
Update time for IRT
PROFINET IO Device
Services
PROFINET CBA
3. Interface
Interface types
Protocols
PROFIBUS DP master
Services
PROFIBUS DP slave
PROFINET IO Controller
PROFINET IO Device
Services
PROFINET CBA
4. Interface
Interface types
Protocols
PROFIBUS DP master
PROFINET IO Controller
Interface types
RJ 45 (Ethernet)
RS 232
RS 485
RS 422
USB port
Protocols
Protocols (USB)
Protocols (Ethernet) WEB characteristics
Protocols (terminal link) Number of connections
PROFINET IO Device
Redundancy mode
SIMATIC communication
EtherNet/IP
Services
Updating times
Redundancy mode
Open IE communication

Web server
PROFIBUS DP
PROFIBOS DP
DALI
Integrated protocols
Freeport
3964 (R)
OPC UA
Communication functions
Global data communication
S7 basic communication
S7 communication
LOGO! communication
S5 compatible communication
Standard communication (FMS)
PROFINET CBA (at set setpoint communication load)
Remote interconnections with acyclic transmission
Remote interconnections with cyclic transmission
iPAR server
Number of connections
Test commissioning functions
Status/control
Forcing
Diagnostic buffer
Interrupts/diagnostics/status information
Alarms
Integrated Functions
Monitoring functions
Safety monitoring functions
Counting functions
Load cell
Position detection
Control technology
Step-by-step controllers
Pulse generator
Measuring functions
Operating mode for measured value acquisition
Measuring range
Accuracy
Measuring inputs for voltage
Measuring inputs for voltage
Measuring inputs for current (Rog. or I/U converter)
Error limits
Counter
Counting mode
External gate counters
Counter input 5 V
Counter input 24 V
Drive interface
Signal Input
Potential separation
Potential separation digital inputs
Potential separation digital outputs
Potential separation analog inputs
Potential separation analog outputs
Potential separation channels
Potential separation valve outputs

Potential congration counter		
Potential separation counter		
Potential separation controller		
EMC		
Interference immunity against discharge of static electricity	C 11	
Interference immunity against high-frequency electromagnetic	c fields	
Interference immunity to cable-borne interference		
Interference immunity against voltage surge		
Interference immunity against conducted variable disturbance	e induced by high-frequency fields	
Interference immunity to magnetic fields		
Emission of radio interference acc. to EN 55 011		
Emission of radio interference acc. to EN 55 022		
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
Highest safety class achievable for safety-related tripping of standard modules		
Highest safety class achievable for deactivated dark test		
Use in hazardous areas		
Marine approval		
Ambient conditions		
Free fall		
Ambient temperature during operation		
• min.	0°C	
• max.	00 °C	
Operation (vertical installation)		
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Air pressure acc. to IEC 60068-2-13		
Vibrations		
Shock testing		
Resistance		
Coolants and lubricants		
Fire resistance		
Pollutant concentrations		
Hardware requirement		
Processor		
Graphic		
Operating systems		
pre-installed operating system		
Runs under operating system		
Software		
Preinstalled		
Software functions		
Multi-user system		
Runtime software		
Runtime		
Block		
 FB length in RAM, max. 	6 100 byte; Data communication, sending and receiving	
Adjustable parameters		
Configuration		
Configuration		
Configuration software		
Script languages (Runtime)		
Programming		
Programming language		
Configuration examples		
Software libraries		
Know-how protection		

Character sets Transfer (upload/download)	
3 screw-type terminals: L+, M, GND	
40 mm	
125 mm	
125 mm 120 mm	
120 mm	
120 mm	

last modified:

12/19/2020 🖸