SIEMENS

COMMUNICATIONSPROCESSOR CP342-5 FO FOR CONNECTING SIMATIC S7-300 TO PROFIBUS, DP, S5-COMPATIBLE PG/OP AND S7 COMMUNICATION

Transmission rate

Transfer rate	
• at the 1st interface / acc. to PROFIBUS	9.6 kbit/s ... 12 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	0
Number of electrical connections	
• for power supply	1
Number of optical interfaces / at the 1st interface / acc. to PROFIBUS	2
Design of the optical interface / at the 1st interface / acc. to PROFIBUS	Duplex socket
Type of electrical connection	
• for power supply	4-pole terminal block

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1 / from backplane bus	5 V
Supply voltage	24 V
Supply voltage / external	24 V
Relative positive tolerance / for DC / at 24 V	20 %
Relative negative tolerance / for DC / at 24 V	15 %
Consumed current	
• from backplane bus / for DC / at 5 V / typical	0.15 A
• from external supply voltage / for DC / at 24 V / typical	0.25 A
Active power loss	6 W

Permitted ambient conditions

Ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weight

Module format	Compact module
Width	40 mm
Height	125 mm
Depth	120 mm
Net weight	0.3 kg
Mounting type	
• S7-300 rail mounting	Yes

Product properties, functions, components / general

Number of units	
• per CPU / maximum	4
Cable length	
• for PCF FOC / maximum	300 m
• for POF FOC / maximum	50 m

Performance data / open communication

Number of possible connections / for open communication / by means of SEND/RECEIVE blocks	
• maximum	16
Amount of data	
• as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum	240 byte

Performance data / PROFIBUS DP

Service / as DP master	
• DPV0	Yes
Number of DP slaves / on DP master / usable	124
Amount of data	
• of the address area of the inputs / as DP master / total	2160 byte
• of the address area of the outputs / as DP master / total	2160 byte
• of the address area of the inputs / per DP slave	244 byte

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• of the address area of the outputs / per DP slave	244 byte
• of the address area of the diagnostic data / per DP slave	240 byte
Service / as DP slave	
• DPV0	Yes
Amount of data	
• of the address area of the inputs / as DP slave / total	240 byte
• of the address area of the outputs / as DP slave / total	240 byte

Performance data / S7 communication

Number of possible connections / for S7 communication	
• maximum	16

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	
• without DP / maximum	32
• with DP / maximum	28

Performance data / telecontrol

Protocol / is supported	
• TCP/IP	No

Product functions / management, configuration

Configuration software	
• required	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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