SIEMENS

Data sheet **6GK7342-5DF00-0XE0**

product type designation	CP 342-5 FO

Communications processor CP 342-5 FO for connection of SIMATIC S7-300 to PROFIBUS DP, S5-compatible, PG/OP and S7 communication

transfer 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
supply voltage / external / at DC / rated value	24 V
relative positive tolerance / at DC / at 24 V	20 %
relative negative tolerance / at DC / at 24 V	15 %
consumed current	
● from backplane bus / at DC / at 5 V / typical	0.15 A
● from external supply voltage / at DC / at 24 V / typical	0.25 A
power loss [W]	6 W
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 weights	
module format	Compact module

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width	40 mm
height	125 mm
depth	120 mm
net weight	0.3 kg
fastening method	
● S7-300 rail mounting	Yes

product features, product functions, product components / general

number of units	
● per CPU / maximum	4
wire 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
data volume	
● 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 / operable	124
data volume	
● of the address range of the inputs / as DP master / total	2160 byte
● of the address range of the outputs / as DP master / total	2160 byte
● of the address range of the inputs / per DP slave	244 byte
● of the address range of the outputs / per DP slave	244 byte
● of the address range of the diagnostic data / per DP slave	240 byte
service / as DP slave	
● DPV0	Yes
data volume	
● of the address range of the inputs / as DP slave / total	240 byte
● of the address range 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, engineering

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

standards, specifications, approvals / hazardous environments

certificate of suitability / CCC / for hazardous zone according to GB standard	Yes

further information / internet-Links

Internet-Link	

● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● 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/industry/infocenter
● 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

security information

security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)

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