SIEMENS

Data sheet

6GK7342-5DA03-0XE0

product type designation

CP 342-5

Communications processor CP 342-5 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		
• at the 1st interface / acc. to PROFIBUS	1	
for power supply	1	
type of electrical connection		
• at the 1st interface / acc. to PROFIBUS	9-pin Sub-D socket (RS485)	
• 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 / external	24 V	
supply voltage / external / at DC / rated value	24 V	
relative positive tolerance / at DC / at 24 V	20 %	

consumed current • from backplane bus / at DC / at 5 V / typical • from external supply voltage / at DC / at 24 V / typical power loss [Vf] ambient conditions ambient temperature • during operation • during storage • during transport • during transport • during fransport • at 25 °C / vithout condensation / during operation / maximum protection class IP design, dimensions and weights module format width 40 mm height 125 mm depth net weight 120 mm net weight • at 26 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format vidth 40 mm height 125 mm depth net weight 9.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum 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 • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP	relative negative tolerance / at DC / at 24 V	15 %	
In from external supply voltage / at DC / at 24 V / typical power loss [W] Implication of the sum	consumed current		
typical power loss [W] smbient conditions ambient temperature during storage during storage during transport et 25 °C / without condensation / during operation / maximum protection class IP less module format compact module 57-300 single width width height 125 mm depth 120 mm net weight product features, product functions, product components / general number of units per CPU / maximum amount of data as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum amount of DP slaves on DP master / usable are of the address area of the inputs / as DP master of the address area of the inputs / as DP master of the address area of the inputs / as DP master of the address area of the outputs / as DP 2160 byte	• from backplane bus / at DC / at 5 V / typical	0.15 A	
ambient conditions ambient temperature • during operation • during storage • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width 40 mm height 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP 2160 byte		0.25 A	
ambient temperature • during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP relative humidity relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP relative humidity relative humidity relative humidity • at 25 °C / without condensation / during operations and weights relative humidity re	power loss [W]	6.75 W	
during operation during storage during transport during transport during transport eld uring transpor	ambient conditions		
during storage during transport during transport relative humidity at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format Compact module S7-300 single width width height depth net weight 120 mm net weight 120 mm net weight o.3 kg product features, product functions, product components / general number of units per CPU / maximum amount of data as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data as user data / PROFIBUS DP service / as DP master DPV0 rumber of DP slaves on DP master / usable of the address area of the inputs / as DP master / total of the address area of the outputs / as DP as 124 240 byte	ambient temperature		
• during transport • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format Compact module S7-300 single width width 40 mm height 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 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 of the address area of the outputs / as DP 2160 byte	during operation	0 60 °C	
relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP IP20 design, dimensions and weights module format Compact module \$7-300 single width width 40 mm height 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open 16 communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 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 2160 byte	during storage	-40 +70 °C	
at 25 °C / without condensation / during operation / maximum protection class IP design, dimensions and weights module format width height depth 125 mm depth 120 mm net weight 20 mm net weight product features, product functions, product components / general number of units per CPU / maximum amount of data as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master DPV0 number of DP slaves on DP master / usable of the address area of the inputs / as DP master / total of the address area of the outputs / as DP at 25 °C / without condensation / IP20 IP20 LP20	 during transport 	-40 +70 °C	
operation / maximum protection class IP design, dimensions and weights module format	relative humidity		
design, dimensions and weights module format Width A 0 mm height 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP master / total		95 %	
module format width width 40 mm height depth 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	protection class IP	IP20	
module format width width 40 mm height depth 125 mm depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	design, dimensions and weights		
height depth 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum 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 2160 byte		Compact module S7-300 single width	
depth net weight 120 mm net weight 0.3 kg product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	width	40 mm	
net weight product features, product functions, product components / general number of units • per CPU / maximum 4 performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	height	125 mm	
product features, product functions, product components / general number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP respectively as DP master / total • of the address area of the outputs / as DP 2160 byte	depth	120 mm	
number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	net weight	0.3 kg	
per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data	product features, product functions, product components / general		
performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP definition of the address area of the outputs / as DP 2160 byte	product features, product functions, product compo	nents / general	
number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP 2160 byte		nents / general	
communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	number of units		
blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 Tyes number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP master / total • of the address area of the outputs / as DP 240 byte	number of units • per CPU / maximum		
as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master DPV0 number of DP slaves on DP master / usable amount of data of the address area of the inputs / as DP master / total of the address area of the outputs / as DP 240 byte	number of units • per CPU / maximum performance data / open communication	4	
communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP of the address area of the outputs / as DP 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE	4	
service / as DP master • DPV0 Number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	4	
DPV0 Yes number of DP slaves on DP master / usable amount of data of the address area of the inputs / as DP master / total of the address area of the outputs / as DP 2160 byte 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE	16	
number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP	16	
 on DP master / usable amount of data of the address area of the inputs / as DP master / total of the address area of the outputs / as DP 2160 byte 	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP	4 16 240 byte	
amount of data • of the address area of the inputs / as DP master / total • of the address area of the outputs / as DP 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0	4 16 240 byte	
 of the address area of the inputs / as DP 2160 byte master / total of the address area of the outputs / as DP 2160 byte 	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0	4 16 240 byte	
master / total • of the address area of the outputs / as DP 2160 byte	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves	16 240 byte Yes	
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable	16 240 byte Yes	
master / total	number of units • per CPU / maximum performance data / open communication number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum amount of data • as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum performance data / PROFIBUS DP service / as DP master • DPV0 number of DP slaves • on DP master / usable amount of data • of the address area of the inputs / as DP	16 240 byte Yes 124	

• of the address area of the inputs / per DP slave	244 byte
 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, en	gineering
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 TIA Selection Tool	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net

to website: Selector TIA Selection Tool
 to website: Industrial communication
 to website: Industry Mall
 http://www.siemens.com/simatic-net
 https://mall.industry.siemens.com

to website: Information and Download Center
 to website: Image database
 http://www.siemens.com/industry/infocenter
 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

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