



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 %
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]	6.75 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 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	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 • of the address range of the outputs / as DP master / total • of the address range of the inputs / per DP slave • of the address range of the outputs / per DP slave • of the address range of the diagnostic data / per DP slave	2160 byte 2160 byte 244 byte 244 byte 240 byte
service / as DP slave • DPV0	Yes
data volume • of the address range of the inputs / as DP slave / total • of the address range of the outputs / as DP slave / total	240 byte 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 • with DP / maximum	32 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 • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax 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,

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