

### 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	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul>	9.6 kbit/s ... 12 Mbit/s
interfaces	
number of interfaces / acc. to Industrial Ethernet	0
number of electrical connections	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul>	1
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	1
type of electrical connection	
<ul style="list-style-type: none"> <li>at the 1st interface / acc. to PROFIBUS</li> </ul>	9-pin Sub-D socket (RS485)
<ul style="list-style-type: none"> <li>for power supply</li> </ul>	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	
<ul style="list-style-type: none"> <li>from backplane bus / at DC / at 5 V / typical</li> </ul>	0.15 A
<ul style="list-style-type: none"> <li>from external supply voltage / at DC / at 24 V / typical</li> </ul>	0.25 A
power loss [W]	6.75 W
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	0 ... 60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
relative humidity	
<ul style="list-style-type: none"> <li>at 25 °C / without condensation / during operation / maximum</li> </ul>	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
<b>product features, product functions, product components / general</b>	
number of units • per CPU / maximum	4
<b>performance data / open communication</b>	
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
<b>performance data / PROFIBUS DP</b>	
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
<b>performance data / S7 communication</b>	
number of possible connections / for S7 communication • maximum	16
<b>performance data / multi-protocol mode</b>	
number of active connections / with multi-protocol mode • without DP / maximum	32
• with DP / maximum	28
<b>performance data / telecontrol</b>	
protocol / is supported • TCP/IP	No
<b>product functions / management, configuration, engineering</b>	
configuration software • required	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher
<b>standards, specifications, approvals / hazardous environments</b>	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
<b>further information / internet-Links</b>	
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	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	

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security information

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**last modified:**

1/24/2021 