

### 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 %

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

#### product features, product functions, product components / general

number of units	
<ul style="list-style-type: none"> <li>• per CPU / maximum</li> </ul>	4

#### performance data / open communication

number of possible connections / for open communication / by means of SEND/RECEIVE blocks / maximum	16
amount of data	
<ul style="list-style-type: none"> <li>• as user data per connection / for open communication / by means of SEND/RECEIVE blocks / maximum</li> </ul>	240 byte

#### performance data / PROFIBUS DP

service / as DP master	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
number of DP slaves	
<ul style="list-style-type: none"> <li>• on DP master / usable</li> </ul>	124
amount of data	
<ul style="list-style-type: none"> <li>• of the address area of the inputs / as DP master / total</li> </ul>	2160 byte
<ul style="list-style-type: none"> <li>• of the address area of the outputs / as DP master / total</li> </ul>	2160 byte

<ul style="list-style-type: none"> <li>• of the address area of the inputs / per DP slave</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address area of the outputs / per DP slave</li> </ul>	244 byte
<ul style="list-style-type: none"> <li>• of the address area of the diagnostic data / per DP slave</li> </ul>	240 byte
service / as DP slave	
<ul style="list-style-type: none"> <li>• DPV0</li> </ul>	Yes
amount of data	
<ul style="list-style-type: none"> <li>• of the address area of the inputs / as DP slave / total</li> </ul>	240 byte
<ul style="list-style-type: none"> <li>• of the address area of the outputs / as DP slave / total</li> </ul>	240 byte

#### performance data / S7 communication

number of possible connections / for S7 communication	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	16

#### performance data / multi-protocol mode

number of active connections / with multi-protocol mode	
<ul style="list-style-type: none"> <li>• without DP / maximum</li> </ul>	32
<ul style="list-style-type: none"> <li>• with DP / maximum</li> </ul>	28

#### performance data / telecontrol

protocol / is supported	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	No

#### product functions / management, configuration, engineering

configuration software	
<ul style="list-style-type: none"> <li>• required</li> </ul>	STEP 7 V5.1 SP2 or higher / STEP 7 Professional V12 (TIA Portal) or higher

#### further information / internet-Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### security information

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