

### Product type designation

### CP 343-5

COMMUNICATIONSPROCESSOR CP343-5 FOR CONNECTING  
SIMATIC S7-300 TO PROFIBUS, FMS, S5-COMPATIBLE PG/OP  
AND S7 COMMUNICATION 12 MBAUD, SINGLE-WIDTH



### Transmission 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
- for power supply

1

1

#### Type of electrical connection

- at the 1st interface / acc. to PROFIBUS
- for power supply

9-pin Sub-D socket (RS485)

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 <ul style="list-style-type: none"> <li>• from backplane bus / at DC / at 5 V / typical</li> <li>• from external supply voltage / at DC / at 24 V / typical</li> </ul> | 0.15 A<br>0.25 A |
| Power loss [W]                                                                                                                                                                         | 5 W              |

#### Permitted ambient conditions

|                                                                                                                                                |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | 0 ... 60 °C<br>-40 ... +70 °C<br>-40 ... +70 °C |
| Relative humidity / at 25 °C / without condensation / during operation / maximum                                                               | 95 %                                            |
| Protection class IP                                                                                                                            | IP20                                            |

#### Design, dimensions and weight

|                                                                                        |                                    |
|----------------------------------------------------------------------------------------|------------------------------------|
| Module format                                                                          | Compact module S7-300 single width |
| Width                                                                                  | 40 mm                              |
| Height                                                                                 | 125 mm                             |
| Depth                                                                                  | 120 mm                             |
| Net weight                                                                             | 0.3 kg                             |
| Mounting type <ul style="list-style-type: none"> <li>• S7-300 rail mounting</li> </ul> | Yes                                |

#### Product properties, functions, 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 / FMS functions

|                                                                                                                                                            |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Number of possible connections / for FMS connection / maximum                                                                                              | 16                   |
| Amount of data / of the variables <ul style="list-style-type: none"> <li>• for READ job / maximum</li> <li>• for WRITE and REPORT job / maximum</li> </ul> | 237 byte<br>233 byte |
| Number of variables <ul style="list-style-type: none"> <li>• Configurable from server to FMS partner</li> </ul>                                            | 256                  |

- Loadable from server to FMS partner

256

#### 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

48

#### Performance data / telecontrol

Protocol / is supported

- TCP/IP

No

Configuration software

- required

STEP 7 V5.1 SP3 or higher and NCM S7 for PROFIBUS

#### Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET 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/snst>

<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, 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)

last modified:

10/21/2016