# SIEMENS

**Data sheet**                                                   **6GK7342-5DF00-0XE0**

| product type designation | CP 342-5 FO |
|---|---|
| | - - spare part - - communications processor CP 342-5 FO for connection of SIMATIC S7-300 to PROFIBUS DP, S5-compatible, PG/OP and S7 communication. |

| transfer rate | |
|---|---|
| transfer rate | |
| ● at the 1st interface / according to PROFIBUS | 9.6 kbit/s ... 12 Mbit/s |
| **interfaces** | |
| number of interfaces / according to Industrial Ethernet | 0 |
| number of electrical connections | |
| ● for power supply | 1 |
| type of electrical connection | |
| ● 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 | 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 | |
| ● 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 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 |
| width | 40 mm |
| height | 125 mm |
| depth | 120 mm |
| net weight | 0.3 kg |
| fastening method | |
| ● S7-300 rail mounting | Yes |
| **product features, product functions, product components / general** | |

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| | |
|---|---|
| number of units | |
| ● per CPU / maximum | 4 |
| wire length | |
| ● for PCF FOC / maximum | 300 m |
| ● for POF FOC / maximum | 50 m |
| **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 | 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 |
| **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, engineering** | |
| 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 web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, |

subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

## Approvals / Certificates

### General Product Approval

| CE EG-Konf. | Declaration of Conformity | UK CA | CCC | EAC | UL |
|---|---|---|---|---|---|

| General Product Approval | For use in hazardous locations | | | | Maritime application |
|---|---|---|---|---|---|
| RCM | ATEX | IECEx | CCC-Ex | UL | PRS |

### Environment

Confirmation

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