

Product type designation

**SIPLUS S7-1200 CM 1242-5**  
SIPLUS S7-1200CM 1242-5 -25...+55 °C with conformal coating  
based on 6GK7242-5DX30-0XE0 . Communication module CM  
1242-5, for connecting S7-1200 to PROFIBUS as DP Slave module



Figure similar

| 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                                 | 0                          |
| Type of electrical connection                      |                            |
| • at the 1st interface / acc. to PROFIBUS          | 9-pin Sub-D socket (RS485) |
| Supply voltage, current consumption, power loss    |                            |
| Type of voltage / of the supply voltage            | DC                         |
| Supply voltage / 1 / from backplane bus            | 5 V                        |
| Consumed current                                   |                            |
| • from backplane bus / at DC / at 5 V / typical    | 0.15 A                     |
| Power loss [W]                                     | 0.75 W                     |

## Ambient conditions

|                                                                                                                                                        |                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature                                                                                                                                    |                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                                                                                     | -25 ... +55 °C                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>for vertical installation / during operation</li> </ul>                                                         | -25 ... +45 °C                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>for horizontally arranged busbars / during operation</li> </ul>                                                 | -25 ... +55 °C                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>in horizontal mounting position / during operation</li> </ul>                                                   | 55 ... -25 °C                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>during storage and transport</li> </ul>                                                                         | 70 ... -40 °C                                                                                                                                                                                                    |
| Installation altitude / at height above sea level / maximum                                                                                            | 5000 m                                                                                                                                                                                                           |
| Ambient condition / relating to ambient temperature - air pressure - installation altitude                                                             | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity                                                                                                                                      |                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>with condensation / acc. to IEC 60068-2-38 / maximum</li> </ul>                                                 | 100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation                                                                                                  |
| Chemical resistance / to commercially available cooling lubricants                                                                                     | Yes; incl. airborne diesel and oil droplets                                                                                                                                                                      |
| Resistance to biologically active substances                                                                                                           |                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> </ul>                                                                      | Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request                                                                                                                                    |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>                                                                      | Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)                                                                                                                                                 |
| Resistance to chemically active substances                                                                                                             |                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> </ul>                                                                      | Yes; Class 3C4 (RH < 75 %) incl. salt spray in accordance with EN 60068-2-52 (Severity 3). The supplied plug covers must remain in place on the unused interfaces during operation.                              |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>                                                                      | Yes                                                                                                                                                                                                              |
| Resistance to mechanically active substances                                                                                                           |                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-3</li> </ul>                                                                      | Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.                                                                                      |
| <ul style="list-style-type: none"> <li>conformity acc. to EN 60721-3-6</li> </ul>                                                                      | Yes; Class 6S3 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.                                                                                      |
| Coating / for equipped printed circuit board / acc. to EN 61086                                                                                        | Yes; Class 2 for high availability                                                                                                                                                                               |
| Type of coating / protection against pollution according to EN 60664-3                                                                                 | Yes; Protection of the type 1                                                                                                                                                                                    |
| Type of test / of the coating / acc. to MIL-I-46058C                                                                                                   | Yes; Coating discoloration during service life possible                                                                                                                                                          |
| Product conformity / of the coating / Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies acc. to IPC-CC-830A | Yes; Conformal coating, class A                                                                                                                                                                                  |
| Protection class IP                                                                                                                                    | IP20                                                                                                                                                                                                             |
| Module format                                                                                                                                          | Compact module S7-1200 single width                                                                                                                                                                              |
| Width                                                                                                                                                  | 30 mm                                                                                                                                                                                                            |

|                           |          |
|---------------------------|----------|
| Height                    | 100 mm   |
| Depth                     | 75 mm    |
| Net weight                | 0.115 kg |
| Mounting type             |          |
| • 35 mm DIN rail mounting | Yes      |
| • S7-300 rail mounting    | No       |
| • wall mounting           | Yes      |

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

|                     |   |
|---------------------|---|
| Number of units     |   |
| • per CPU / maximum | 3 |

#### Performance data / PROFIBUS DP

|                                                           |          |
|-----------------------------------------------------------|----------|
| Service / as DP slave                                     |          |
| • DPV0                                                    | Yes      |
| • DPV1                                                    | Yes      |
| Amount of data                                            |          |
| • of the address area of the inputs / as DP slave / total | 240 byte |

#### Performance data / PROFINET CBA

|                         |    |
|-------------------------|----|
| Protocol / is supported |    |
| • TCP/IP                | No |

#### Product functions / management, configuration, engineering

|                        |                              |
|------------------------|------------------------------|
| Configuration software |                              |
| • required             | STEP 7 Basic V11.0 or higher |

#### Further information / Internet-Links

|                                                   |                                                                                                               |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Internet-Link                                     |                                                                                                               |
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                                         |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                           |
| • to website: Industry Mall                       | <a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a> |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>     |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>                       |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                           |
| • to website: Industry Online Support             | <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>                     |

#### 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 comprehensive industrial security concept. Siemens products and solutions undergo continuous development with this factor in mind. 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. Products used from other manufacturers should also be taken into account here. You can find more information on Industrial Security at <http://www.siemens.com/industrialsecurity>. To stay informed about product updates as they occur, sign up for our product-specific newsletter. You can find more information on this at <http://support.automation.siemens.com>. Version 3.4  
14.11.2013- Siemens AG, I IA L CG, Nuremberg

**last modified:**

11/15/2019