# **SIEMENS**

## **Data sheet**

## 6GK7242-5DX30-0XE0

#### product type designation



### CM 1242-5

communications module CM 1242-5; for connection of SIMATIC S7-1200 to PROFIBUS as DP slave module.

transfer rate
Interfaces  number of interfaces / according to Industrial Ethernet number of electrical connections  • at the 1st interface / according to PROFIBUS  • for power supply  type of electrical connection  • at the 1st interface / according to PROFIBUS  • for power supply  type of electrical connection  • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / 1 / from backplane bus  consumed current  • from backplane bus / at DC / at 5 V / typical  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum  0  0  0  0  0  0  0  0  0  0  0  0  0
number of interfaces / according to Industrial Ethernet number of electrical connections  • at the 1st interface / according to PROFIBUS  • for power supply  type of electrical connection  • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / 1 / from backplane bus  consumed current  • from backplane bus / at DC / at 5 V / typical  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum
number of electrical connections  • at the 1st interface / according to PROFIBUS  • for power supply  type of electrical connection  • at the 1st interface / according to PROFIBUS  • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / 1 / from backplane bus  consumed current  • from backplane bus / at DC / at 5 V / typical  power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  relative humidity  • at 25 °C / without condensation / during operation / maximum
<ul> <li>at the 1st interface / according to PROFIBUS</li> <li>for power supply</li> <li>type of electrical connection</li> <li>at the 1st interface / according to PROFIBUS</li> <li>9-pin Sub-D socket (RS485)</li> </ul> supply voltage, current consumption, power loss type of voltage / of the supply voltage <ul> <li>supply voltage / 1 / from backplane bus</li> <li>from backplane bus / at DC / at 5 V / typical</li> <li>from backplane bus / at DC / at 5 V / typical</li> <li>power loss [W]</li> <li>ambient conditions</li> </ul> ambient temperature <ul> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>elduring transport</li> <li>et 25 °C / without condensation / during operation / maximum</li> </ul> 95 %
• for power supply type of electrical connection • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum
type of electrical connection     • at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current      • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature      • for vertical installation / during operation     • for horizontally arranged busbars / during operation     • during storage     • during transport  relative humidity     • at 25 °C / without condensation / during operation / maximum  9-pin Sub-D socket (RS485)  5 V  0.15 A 0.75 W  0.15 A 0.75
at the 1st interface / according to PROFIBUS  supply voltage, current consumption, power loss  type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current     • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature     • for vertical installation / during operation     • for horizontally arranged busbars / during operation     • during storage     • during transport relative humidity     • at 25 °C / without condensation / during operation / maximum  9 DC  015 A 0.75 W  045 °C 045 °C -4045 °C -40+70 °C -40+70 °C -40+70 °C -40+70 °C
type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum  DC  S V  O.15 A  O.75 W  O.75 W  O 45 °C  O 45 °C  O 55 °C  -40 +70 °C  -40 +70 °C  -95 %
type of voltage / of the supply voltage supply voltage / 1 / from backplane bus consumed current  • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum  DC  5 V  0 45 °C  0 45 °C  0 45 °C  0 45 °C  -40 +70 °C  -40 +70 °C  95 %
supply voltage / 1 / from backplane bus consumed current  • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport • during transport  relative humidity • at 25 °C / without condensation / during operation / maximum  5 V  015 A  0.75 W  0 45 °C  0 45 °C  0 55 °C  -40 +70 °C  95 %
consumed current  • from backplane bus / at DC / at 5 V / typical power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport • during transport • at 25 °C / without condensation / during operation / maximum  0 45 °C  -40 +70 °C  -40 +70 °C  95 %
from backplane bus / at DC / at 5 V / typical power loss [W]      ambient conditions  ambient temperature     for vertical installation / during operation     for horizontally arranged busbars / during operation     during storage     during transport     during transport     at 25 °C / without condensation / during operation / maximum      for vertical installation / during operation     o 45 °C     o 45 °C     -40 +70 °C     -40 +70 °C     relative humidity     at 25 °C / without condensation / during operation / maximum      for vertical installation / during operation / oper
power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport • during transport relative humidity • at 25 °C / without condensation / during operation / maximum  0 45 °C 0 45 °C -40 +70 °C -40 +70 °C  95 %
ambient conditions  ambient temperature  • for vertical installation / during operation • for horizontally arranged busbars / during operation • during storage • during transport • during transport  • at 25 °C / without condensation / during operation / maximum   0 45 °C  0 45 °C  -40 +70 °C  -40 +70 °C  95 %
ambient temperature  • for vertical installation / during operation  • for horizontally arranged busbars / during operation  • during storage  • during transport  • during transport  • at 25 °C / without condensation / during operation / maximum   0 45 °C  0 45 °C  -40 +70 °C  -40 +70 °C  95 %
<ul> <li>for vertical installation / during operation</li> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>0 45 °C</li> <li>0 55 °C</li> <li>-40 +70 °C</li> <li>95 %</li> </ul>
<ul> <li>for horizontally arranged busbars / during operation</li> <li>during storage</li> <li>during transport</li> <li>during transport</li> <li>40 +70 °C</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>95 %</li> </ul>
<ul> <li>during storage</li> <li>during transport</li> <li>eduring transport</li> <li>40 +70 °C</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>95 %</li> </ul>
<ul> <li>during transport</li> <li>relative humidity</li> <li>at 25 °C / without condensation / during operation / maximum</li> <li>-40 +70 °C</li> <li>95 %</li> </ul>
relative humidity  • at 25 °C / without condensation / during operation / 95 % maximum
• at 25 °C / without condensation / during operation / 95 % maximum
maximum
protection class IP IP20
design, dimensions and weights
module format Compact module S7-1200 single width
width 30 mm
height 100 mm
depth 75 mm
net weight 0.115 kg
fastening method
• 35 mm top hat DIN rail mounting
• 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 data volume • of the address range of the inputs / as DP slave / 240 byte • of the address range of the outputs / as DP slave / 240 byte total performance data / telecontrol protocol / is supported • TCP/IP Nο product functions / management, configuration, engineering configuration software STEP 7 Basic/Professional standards, specifications, approvals / hazardous environments certificate of suitability / CCC / for hazardous zone Yes according to GB standard further information / internet-Links Internet-Link • to web page: selection aid TIA Selection Tool http://www.siemens.com/tia-selection-tool • to website: Industrial communication http://www.siemens.com/simatic-net • to website: Industry Mall https://mall.industry.siemens.com • to website: Information and Download Center http://www.siemens.com/industry/infocenter

http://automation.siemens.com/bilddb http://www.siemens.com/cax

https://support.industry.siemens.com

#### security information

• to website: Image database

to website: CAx-Download-Manager

• to website: Industry Online Support

security information

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