

product type designation



Figure similar

SIPLUS S7-1200 CM 1242-5

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

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	
• at the 1st interface / according to PROFIBUS	1
• for power supply	0
type of electrical connection	
• at the 1st interface / according 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	
• for vertical installation / during operation	-25 ... +45 °C
• for horizontally arranged busbars / during operation	-25 ... +55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °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	
• with condensation / according to IEC 60068-2-38 / maximum	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	
• conformity according to EN 60721-3-3	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
resistance to chemically active substances	
• conformity according to EN 60721-3-3	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.
• conformity according to EN 60721-3-6	Yes

resistance to mechanically active substances	
conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust. The supplied plug covers must remain in place over the unused interfaces during operation.
conformity according to EN 60721-3-6	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 / according 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 / according 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 according to IPC-CC-830A	Yes; Conformal coating, class A
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	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
data volume	
of the address range of the inputs / as DP slave / total	240 byte
performance data / telecontrol	
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 web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	http://www.siemens.com/industrial-controls/mall
to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
to website: Image database	http://automation.siemens.com/bilddb
to website: CAX-Download-Manager	http://www.siemens.com/cax
to website: Industry Online Support	http://support.automation.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. 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 protective measures (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. You can find more information on Industrial Security at http://www.siemens.com/industrialsecurity . In order to keep yourself informed about product updates, we recommend subscribing to 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

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