SIEMENS

Data sheet

product type designation

6AG2243-5DX30-1XE0

SIPLUS S7-1200 CM 1243-5 RAIL

SIPLUS S7-1200 CM 1243-5 T1 RAIL -25 ... +55°C T1 with 70°C for 10 min with conformal coating based on 6GK7243-5DX30-0XE0 . Communication module CM 1243-5 for connecting S7-1200 to PROFIBUS as DP master 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 	1
type of electrical connection	
• at the 1st interface / acc. to PROFIBUS	9-pin Sub-D socket (RS485)
• for power supply	3-pole terminal block
supply voltage, current consumption, power loss	
type of voltage / of the supply voltage	DC
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	20 %
consumed current	
 from external supply voltage / at DC / at 24 V / typical 	0.1 A
power loss [W]	2.4 W
ambient conditions	
ambient temperature	
 during operation 	-25 +55 °C
 during storage 	-40 +70 °C
during transport	-40 +70 °C
installation altitude / at height above sea level / maximum	2000 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)
relative humidity	
• with condensation / acc. to IEC 60068-2-38 /	100 %; RH including condensation/frost (no commissioning when
maximum	condensation is present), horizontal installation
chemical resistance / to commercially available	Yes; incl. airborne diesel and oil droplets
cooling lubricants	
resistance to biologically active substances	
 conformity acc. to EN 60721-3-3 	Yes; Class 3B2 mold and fungal spores (excluding fauna), Class 3B3 on request
• conformity acc. to EN 60721-3-5	Yes; Class 5B2 mold and fungal spores (excluding fauna), Class 5B3 on request
resistance to chemically active substances	
 conformity acc. 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 acc. to EN 60721-3-5	Yes; Class 5C3 (RH < 75 %) incl. salt spray in accordance with EN 50155 (ST2). The supplied plug covers must remain in place over the unused interfaces during operation.
resistance to mechanically active substances	
• conformity acc. 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 acc. to EN 60721-3-5	Yes; Class 5S3 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 coating / for electronic devices in railway applications acc. to EN 50155	Yes; Protective coating of the Class PC2 according to EN 50155:2018
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	
design, dimensions and weights		
module format	Compact module S7-1200 single width	
width	30 mm	
height	100 mm	
depth	75 mm	
net weight	0.134 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	1	
performance data / PROFIBUS DP		
service / as DP master		
• DPV1	Yes	
number of DP slaves		
on DP master / usable	16	
amount of data		
 of the address area of the inputs / as DP master / total 	512 byte	
 of the address area of the outputs / as DP master / total 	512 byte	
 of the address area of the inputs / per DP slave 	244 byte	
 of the address area of the outputs / per DP slave 	244 byte	
 of the address area of the diagnostic data / per DP slave 	240 byte	
service / as DP slave		
• DPV0	No	
• DPV1	No	
performance data / S7 communication		
number of possible connections / for S7 communication		
• maximum	8; max. 4 connections to other S7 stations	
 with PG connections / maximum 	1	
 with PG/OP connections / maximum 	3	



performance data / multi-protocol mode			
number of active connections / with multi-protocol			
mode			
 without DP / maximum 	8		
• with DP / maximum	8		
performance data / telecontrol			
protocol / is supported			
• TCP/IP	No		
product functions / management, configuration, eng	product functions / management, configuration, engineering		
configuration software			
required	#NO_DATA		
standards, specifications, approvals			
certificate of suitability / fire protection in accordance	Yes; Railway vehicles - Documentation on request		
with EN 45545-2			
railway application			
certificate of suitability / railway application in	Yes; EMC for railway vehicles		
accordance with EN 50121-3-2			
certificate of suitability / railway application in accordance with EN 50121-4	Yes; EMC for signal and telecommunication equipment		
certificate of suitability / railway application in	Yes; Railway applications - Overvoltage category OV2 pollution		
accordance with EN 50124-1	degree PD2 rated impulse voltage UNi = 0.5 kVUNm = DC 24		
certificate of suitability / railway application in accordance with EN 50125-1	Yes; Railway vehicles - See ambient conditions		
certificate of suitability / railway application in accordance with EN 50125-2	Yes; Fixed-electrical installations - see ambient conditions		
certificate of suitability / railway application in accordance with EN 50125-3	Yes; Signal and telecommunications equipment - see Ambient conditions vibrations and shocks: Application point outside the		
	rails (distance 1 m to 3 m from rail)		
certificate of suitability / railway application in accordance with EN 50155	Yes; Railway vehicles - temperature class T1, horizontal mounting position, salt spray class ST3		
certificate of suitability / railway application in accordance with EN 61373	Yes; Railway vehicles - Vibrations and shocks Category 1 Class A/B		
further information / internet-Links			
Internet-Link			
• to website: Selector TIA Selection Tool	http://www.siemens.com/snst		
• 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		
• to website: Image database	http://automation.siemens.com/bilddb		
 to website: CAx Download Manager 	http://www.siemens.com/cax		
• to website: Industry Online Support	https://support.industry.siemens.com		
security information			

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