# **SIEMENS**

### **Data sheet**

## 6GK7243-5DX30-0XE0

#### product type designation



#### CM 1243-5

communications module CM 1243-5 for connection of SIMATIC S7-1200 to PROFIBUS as DP Master module; PG/OP communication; S7 communication.

transfer rate  • at the 1st interface / according to PROFIBUS  • at the 1st 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  • for power supply  3-pole terminal block  supply voltage, current consumption, power loss  type of voltage / of the supply voltage supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V  consumed current  • from external supply voltage / 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 / 20 %  consumed current  • from external supply voltage / at DC / at 24 V / 20 %  consumed current  • for vertical installation / during operation • for horizontally arranged busbars / during operation • for horizontally arranged busbars / during operation • during storage • during torage • during transport  relative humidity • at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  module format  width height  Compact module S7-1200 single width  30 mm  height	transfer rate		
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 • for power supply 3-pole terminal block  supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / 20 % consumed current • from external supply voltage / at DC / at 24 V / 20 %  ambient conditions  ambient temperature • for vertical installation / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format width  O do compact module S7-1200 single width width  O do compact module S7-1200 single width width	transfer rate		
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 • for power supply 3-pole terminal block  supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V 20 % relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 V / typical power loss [W]  ambient conditions  ambient temperature • for vertical installation / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format width  1 0  DC 24 V 20 % 20 % 2.4 W 20 % 2.5 °C 3.1 A 4.0 45 °C 4.0 470 °C 4.0	<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9.6 kbit/s 12 Mbit/s	
number of electrical connections	interfaces		
at the 1st interface / according to PROFIBUS  for power supply  type of electrical connection  at the 1st interface / according to PROFIBUS  for power supply  supply voltage, current consumption, power loss  type of voltage / of the supply voltage  supply voltage / external  supply voltage / external  supply voltage / external  supply voltage / external / at DC / rated value  relative positive tolerance / at DC / at 24 V  relative negative tolerance / at DC / at 24 V  consumed current  from external supply voltage / at DC / at 24 V  typical  power loss [W]  ambient conditions  ambient temperature  for vertical installation / during operation  during storage  during storage  during ransport  relative humidity  at 25 °C / without condensation / during operation / maximum  protection class IP  design, dimensions and weights  1  DC  sub-D socket (RS485)  3-pole terminal block  DC  24 V  20 %  consumed current  24 V  20 %  consumed current  0.11 A  typical  0.12 A  0.1 A  typical  0.13 °C  40 +70 °C  40 +70 °C  40 +70 °C  compact module S7-1200 single width  width  compact module S7-1200 single width	number of interfaces / according to Industrial Ethernet	0	
• for power supply type of electrical connection • at the 1st interface / according to PROFIBUS • for power supply supply voltage, current consumption, power loss type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 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 protection class IP  design, dimensions and weights  module format width  1 the 1st interface / RS485) 3 -pole terminal block  9 C  9 0 W  9 0	number of electrical connections		
type of electrical connection	<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	1	
• at the 1st interface / according to PROFIBUS     • for power supply     * are power supply  supply voltage, current consumption, power loss  type of voltage / of the supply voltage     supply voltage / external	<ul><li>for power supply</li></ul>	1	
• for power supply  supply voltage, current consumption, power loss  type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current • from external supply voltage / at DC / at 24 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 protection class IP  design, dimensions and weights  module format width  Compact module S7-1200 single width width	type of electrical connection		
type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current  • from external supply voltage / at DC / at 24 V / typical power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format width  DC  24 V 20 %  20 %  2.4 W  20 %  2.4 W  2.4 W  2.4 W  2.4 W  2.5 °C  40 45 °C  40 470 °C  40 +70 °C  40 +70 °C  40 +70 °C  Compact module S7-1200 single width width	<ul> <li>at the 1st interface / according to PROFIBUS</li> </ul>	9-pin Sub-D socket (RS485)	
type of voltage / of the supply voltage supply voltage / external supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative 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 power loss [W]  ambient conditions  ambient temperature  • for vertical installation / during operation • during storage • during transport relative humidity • at 25 °C / without condensation / during operation / maximum protection class IP  design, dimensions and weights  module format width  Compact module S7-1200 single width width  Compact module S7-1200 single width width	• for power supply	3-pole terminal block	
supply voltage / external	supply voltage, current consumption, power loss		
supply voltage / external / at DC / rated value relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current  • from external supply voltage / at DC / at 24 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 protection class IP  design, dimensions and weights  module format width  24 V 20 % consumed current 21 % consumed current 21 % consumed current 22 % consumed current	type of voltage / of the supply voltage	DC	
relative positive tolerance / at DC / at 24 V relative negative tolerance / at DC / at 24 V consumed current  • from external supply voltage / at DC / at 24 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 protection class IP  design, dimensions and weights  module format width  20 % 20 %  20 %  20 %  21	supply voltage / external	24 V	
relative negative tolerance / at DC / at 24 V consumed current  • from external supply voltage / at DC / at 24 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 protection class IP  design, dimensions and weights  module format width  20 %  0.1 A  0.1 A  1.24 W  2.4 W  2.4 W  2.4 W  2.4 W  2.5 °C  1.70 °C  2.6 C  2.70 °C  2.70 °C	supply voltage / external / at DC / rated value	24 V	
consumed current  • from external supply voltage / at DC / at 24 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  protection class IP  design, dimensions and weights  module format width  0.1 A  0.1 A	relative positive tolerance / at DC / at 24 V	20 %	
from external supply voltage / at DC / at 24 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  protection class IP  design, dimensions and weights  module format width  0.1 A  0.1 A  0.1 A  0.1 A  0.1 A  1.2 W  2.4 W  2.4 W  2.5 °C  0 45 °C  -40 +70 °C  -40 +70 °C  1.2 P20  4.2 P20  4.3 P20  4.3 P20  4.4 P20  5.4 P20  6.5 P2  6.5 P2  6.7 P20  6	relative negative tolerance / at DC / at 24 V	20 %	
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 protection class IP  design, dimensions and weights  module format width  2.4 W  2.4 W  2.4 W  2.4 W  2.4 W  2.4 W  4. **C  0 45 °C  4. **C			
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 protection class IP  design, dimensions and weights  module format width  2.4 W  2.4 W  2.4 W  2.4 W  2.4 W  2.6 °C  3.7 °C  40 +70 °C  40 +70 °C  1P20  40 +70 °C  50 %  60 maximum  Figure 1  Figure 2  Compact module S7-1200 single width Figure 3  Somm		0.1 A	
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 protection class IP  design, dimensions and weights  module format width  0 45 °C 0 45 °C 0 +70 °C -40 +70 °C  1 +70 °C  1 +70 °C  2 +70 °C  4 +70 °C  Compact module S7-1200 single width 30 mm		0.4144	
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  protection class IP  design, dimensions and weights  module format width  O 45 °C  O 55 °C  -40 +70 °C  -40 +70 °C  IP20  Compact module S7-1200 single width 30 mm		2.4 VV	
for vertical installation / during operation         of or horizontally arranged busbars / during operation         of during storage         of during transport			
for horizontally arranged busbars / during operation     during storage     during transport     during operation / g5 %     maximum     protection class IP     design, dimensions and weights      module format     width     during operation / gc     during transport     durin	·	0 45.00	
<ul> <li>during storage         <ul> <li>during transport</li> <li>40 +70 °C</li> </ul> </li> <li>relative humidity         <ul> <li>at 25 °C / without condensation / during operation / maximum</li> <li>protection class IP</li> <li>IP20</li> </ul> </li> <li>design, dimensions and weights         <ul> <li>module format</li> <li>Compact module S7-1200 single width</li> <li>30 mm</li> </ul> </li> </ul>			
during transport     relative humidity         • at 25 °C / without condensation / during operation / maximum     protection class IP      design, dimensions and weights  module format			
relative humidity  • at 25 °C / without condensation / during operation / 95 % maximum protection class IP IP20  design, dimensions and weights  module format Compact module S7-1200 single width width 30 mm	· · ·		
at 25 °C / without condensation / during operation / maximum  protection class IP  IP20  design, dimensions and weights  module format Compact module S7-1200 single width width  width  Compact module S7-1200 single width		-40 +70 C	
maximum protection class IP  design, dimensions and weights  module format width  Compact module S7-1200 single width 30 mm	•	05.0/	
protection class IP IP20  design, dimensions and weights  module format Compact module S7-1200 single width 30 mm		95 %	
design, dimensions and weights  module format width  Compact module S7-1200 single width 30 mm		IP20	
module format Compact module S7-1200 single width width 30 mm	design, dimensions and weights		
width 30 mm		Compact module S7-1200 single width	
height 100 mm		·	
HOIGHT.	height	100 mm	
depth 75 mm	<u> </u>		
net weight 0.134 kg	•	0.134 kg	
fastening method			
• 35 mm top hat DIN rail mounting  Yes	_	Yes	
• S7-300 rail mounting No	• S7-300 rail mounting	No	

wall mounting	Yes
product features, product functions, product components	
number of units	
• per CPU / maximum	3
performance data / PROFIBUS DP	
service / as DP master	
• DPV1	Yes
number of DP slaves	00
on DP master / operable  data volume	32
of the address range of the inputs / as DP master /	512 byte
total	
<ul> <li>of the address range of the outputs / as DP master / total</li> </ul>	512 byte
<ul> <li>of the address range of the inputs / per DP slave</li> </ul>	244 byte
<ul> <li>of the address range of the outputs / per DP slave</li> </ul>	244 byte
<ul> <li>of the address range of the diagnostic data / per DP</li> </ul>	240 byte
slave 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, engineeri	ng
configuration software	
required	STEP 7 Basic/Professional
standards, specifications, approvals / hazardous environments	
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes
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     to website: Information and Download Center	https://mall.industry.siemens.com 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	
security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions,
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