## **SIEMENS**

## **Data sheet**

6ES7972-0BB12-0XA0

## product type designation

product description



## **PROFIBUS** connector

PROFIBUS bus connector, RS 485, screw, with programming port, 90°

SIMATIC DP, Connection plug for PROFIBUS up to 12 Mbit/s 90° cable outlet, 15.8x 64x 35.6 mm (WxHxD), terminating resistor with isolating function, With PG receptacle

transfer rate transfer rate / with PROFIBUS DP Interfaces number of electrical connections	suitability for use	For connecting PROFIBUS stations to the PROFIBUS bus cable
Interfaces  number of electrical connections  • for PROFIBUS cables • for network components or terminal equipment type of electrical connection • for PROFIBUS cables • for network components or terminal equipment type of electrical connection / FastConnect  mechanical data  design of terminating resistor material / of the enclosure locking mechanism design design of terminations and weights type of cable outlet  width 15.8 mm height 64 mm depth 65 mm net weight ambient conditions  ambient temperature • during operation • during poration • during storage • during transport  during transport  40 +70 °C  product features, product functions, product components / general product features, product functions, approvals  certificate of suitability • RoHS conformity • RoHS conformity • Resist or combination integrated and connectable via slide switch No mechanical data  42  82  84  85  85  86  88  88  89  90 degree cable outlet  90 degree cable outlet  45 8  85  85  85  86  86  86  87  87  87  88  89  89  89  89  89  89	transfer rate	
number of electrical connections  • for PROFIBUS cables 2  • for network components or terminal equipment 1  type of electrical connection  • for PROFIBUS cables Screw • for network components or terminal equipment 9-pin sub D connector  type of electrical connection / FastConnect No  mechanical data  design of terminating resistor Resistor combination integrated and connectable via slide switch plastic locking mechanism design Screwed joint  design, dimensions and weights  type of cable outlet 90 degree cable outlet width 15.8 mm  height 64 mm  depth 35.6 mm  net weight 45 g  ambient temperature  • during operation -25 +60 °C  • during operation -40 +70 °C  product features, product functions, product components / general  product feature  • silicon-free Yes  product feature  • Silicon-free Yes  product feature  • Strain relief Yes  standards, specifications, approvals  certificate of suitability  • RoRIS conformity Yes  • UL approval	transfer rate / with PROFIBUS DP	9.6 kbit/s 12 Mbit/s
• for PROFIBUS cables • for network components or terminal equipment type of electrical connection • for PROFIBUS cables • for network components or terminal equipment • for PROFIBUS cables • for network components or terminal equipment type of electrical connection / FastConnect No mechanical data  design of terminaling resistor material / of the enclosure locking mechanism design design, dimensions and weights type of cable outlet width 15.8 mm helight 64 mm depth net weight ambient conditions  ambient emperature • during operation • during storage • during fransport protection class IP product features, product functions, product components / general product features • silicon-free product component • PG connection socket • strain relief • ACHS conformity • Resistor combitation 1. Sorew  Screw 9-prose 9-proving 1. Sorew 1. Sorew 1. Sorew 9-proving 1. Sorew 1.	interfaces	
• for network components or terminal equipment type of electrical connection • for PROFIBUS cables • for network components or terminal equipment type of electrical connection / FastConnect No  mechanical data design of terminating resistor material / of the enclosure locking mechanism design design, dimensions and weights type of cable outlet width 15.8 mm height depth 45 g  mablent conditions ambient temperature • during operation • during operation • during transport  product features, product functions, product components / general  product features • silicon-free  product feature • silicon-free  product component • Pes connection scket • strain relief  standards, specifications, approvals  certificate of suitability • Redis Connormity • Yes • Standards, specifications, approvals  certificate of suitability • Redis Connormity • Yes • Standards, specifications, approvals	number of electrical connections	
type of electrical connection  • for PROFIBIUS cables  • for network components or terminal equipment  type of electrical connection / FastConnect  mechanical data  design of terminating resistor material / of the enclosure locking mechanism design  design, dimensions and weights  type of cable outlet width 15.8 mm height 64 mm depth 95.6 mm net weight 15.9 d methoditions  ambient conditions  ambient temperature • during operation • during storage • during transport protection class IP product features • silicon-free product features • strain relief  product specifications, approvals  certificate of suitability • Resistor combination integrated and connectable via slide switch modernation integrated and connectable via slide switch modernation integrated and connectable via slide switch material / of the enclosure plastic  Screwed joint  design, dimension integrated and connectable via slide switch material / of the enclosure plastic  Screwed joint design demonstrated and connectable via slide switch material / of the enclosure plastic  Screwed joint design demonstrated and connectable via slide switch material / of the enclosure plastic  Screwed joint design demonstrated and connectable via slide switch material / of the enclosure plastic  Screwed joint design demonstrated and connectable via slide switch material / of the enclosure plastic  Feature substitute plastic  Feature s	for PROFIBUS cables	2
• for PROFIBUS cables • for network components or terminal equipment  type of electrical connection / FastConnect  Mo  mechanical data  design of terminating resistor material / of the enclosure locking mechanism design  design, dimensions and weights  type of cable outlet  width height 64 mm  depth 35.6 mm  net weight 45 g  ambient conditions  ambient temperature • during operation • during storage • during transport  product features • product features • product features • strain relief  poly provided • Pes  standards, specifications, approvals  certificate of suitability • ReNS conformity • ReNS conformity • ReS	<ul> <li>for network components or terminal equipment</li> </ul>	1
• for network components or terminal equipment type of electrical connection / FastConnect  mechanical data design of terminating resistor material / of the enclosure locking mechanism design design, dimensions and weights type of cable outlet width 15.8 mm height depth 35.6 mm net weight ambient conditions  ambient temperature • during operation • during storage • during storage • during strasport protection class IP product feature  • silicon-free  • PG connection socket • Standards, specifications, approvals  certificate of suitability • ReNS conformity • ReS  PS silicon-free  • Resistor combination integrated and connectable via slide switch material integ	type of electrical connection	
type of electrical connection / FastConnect  mechanical data  design of terminating resistor Resistor combination integrated and connectable via slide switch material / of the enclosure plastic locking mechanism design Screwed joint plastic locking mechanism design Screwed joint stage of cable outlet 90 degree cable outlet width 15.8 mm  height 64 mm  depth 35.6 mm  net weight 45 g  ambient conditions  ambient temperature  • during operation • 25 +60 °C  • during storage 40 +70 °C  protection class IP IP20  product features, product functions, product components / general product feature  • silicon-free Yes  product component  • PG connection socket Yes  • stain relief Yes  certificate of suitability  • RoHS conformity Yes  • UL approval	<ul> <li>for PROFIBUS cables</li> </ul>	Screw
mechanical data  design of terminating resistor material / of the enclosure locking mechanism design locking mechanism design design, dimensions and weights  type of cable outlet width 15.8 mm height 64 mm depth 15.6 mm net weight 15.6 mm net weight ambient conditions  ambient temperature during storage during transport during storage during transport product features, product functions, product components / general  product feature silicon-free product component PG connection socket PG connection sapprovals  certificate of suitability NelS conformity Yes PG NelS conformity Yes PG NelS conformity Yes PG NelS conformity Yes PG NelS conformity Yes	<ul> <li>for network components or terminal equipment</li> </ul>	9-pin sub D connector
design of terminating resistor Resistor combination integrated and connectable via slide switch material / of the enclosure plastic locking mechanism design Screwed joint design, dimensions and weights type of cable outlet 90 degree cable outlet width 15.8 mm   height 64 mm   depth 35.6 mm   net weight 45 g   ambient conditions   ambient temperature   • during operation -25 +60 °C   • during storage -40 +70 °C   • during transport -40 +70 °C   product features, product functions, product components / general product feature   • silicon-free Yes   product component   • PG connection socket Yes   • strain relief Yes   standards, specifications, approvals   certificate of suitability   • ROHS conformity Yes   • ROHS conformity Yes   • UL approval	type of electrical connection / FastConnect	No
material / of the enclosure plastic locking mechanism design Screwed joint  design, dimensions and weights  type of cable outlet 90 degree cable outlet width 15.8 mm height 64 mm depth 35.6 mm net weight 45 g ambient conditions  ambient emperature	mechanical data	
locking mechanism design  design, dimensions and weights  type of cable outlet  width	design of terminating resistor	Resistor combination integrated and connectable via slide switch
type of cable outlet  width  15.8 mm  height  45 mm  depth  35.6 mm  net weight  45 g  ambient conditions  ambient temperature  • during operation • during storage • during transport • during transport  product features, product functions, product components / general  product feature  • silicon-free  PG connection socket • strain relief  * Yes  standards, specifications, approvals  certificate of suitability • RoHS conformity • RoHS conformity • Yes  • UL approval	material / of the enclosure	plastic
type of cable outlet  width  15.8 mm  height  64 mm  depth  35.6 mm  net weight  45 g  ambient conditions  ambient temperature  • during operation • during storage • during transport  protection class IP  product features, product functions, product components / general  product feature  • silicon-free  PG connection socket • Strain relief  Yes  standards, specifications, approvals  certificate of suitability • RoHS conformity • RoHS conformity • Yes  • UL approval	locking mechanism design	Screwed joint
width 15.8 mm height 64 mm depth 35.6 mm net weight 45 g  ambient conditions  ambient temperature • during operation -25 +60 °C • during storage -40 +70 °C • during transport -40 +70 °C protection class IP IP20  product features, product functions, product components / general  product feature • silicon-free Yes  product component • PG connection socket Yes • strain relief Yes  standards, specifications, approvals  certificate of suitability • RoHS conformity Yes • UL approval	design, dimensions and weights	
height 64 mm depth 35.6 mm net weight 45 g  ambient conditions  ambient temperature  • during operation -25 +60 °C  • during storage -40 +70 °C  • during transport -40 +70 °C  protection class IP IP20  product features, product functions, product components / general  product feature  • silicon-free Yes  product component  • PG connection socket Yes  • strain relief Yes  standards, specifications, approvals  Certificate of suitability  • RoHS conformity Yes  • UL approval	type of cable outlet	90 degree cable outlet
depth net weight ambient conditions  ambient temperature • during operation • during storage • during transport protection class IP product features, product functions, product components / general product feature • silicon-free  PG connection socket • strain relief  strain relief  ves  standards, specifications, approvals  certificate of suitability • RoHS conformity • RoHS conformity • Yes • UL approval	width	15.8 mm
net weight  ambient conditions  ambient temperature  • during operation • during storage • during transport • during transport  protection class IP  product features, product functions, product components / general  product feature • silicon-free  PG connection socket • PG connections, approvals  certificate of suitability • RoHS conformity • RoHS conformity • UL approval	height	64 mm
ambient conditions  ambient temperature  • during operation • during storage • during transport • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • product class IP  product features, product functions, product components / general  product feature  • silicon-free  • silicon-free  PG connection socket  • PG connection socket  • strain relief  • strain relief  • strain relief  • strain relief  • RoHS conformity  • RoHS conformity  • RoHS conformity  • RoHS conformity  • Yes  • UL approval	depth	35.6 mm
ambient temperature  • during operation • during storage • during transport • during transport • during transport • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • during transport  • protection class IP  product features, product functions, product components / general  product feature • silicon-free  • silicon-free  PG connection socket  • Yes  • strain relief  Yes  standards, specifications, approvals  certificate of suitability  • RoHS conformity  • RoHS conformity  • UL approval  Yes	net weight	45 g
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>40 +70 °C</li> <li>during transport</li> <li>40 +70 °C</li> <li>product features, product functions, product components / general</li> <li>product feature <ul> <li>silicon-free</li> <li>yes</li> </ul> </li> <li>product component <ul> <li>PG connection socket</li> <li>strain relief</li> <li>Yes</li> </ul> </li> <li>standards, specifications, approvals</li> <li>certificate of suitability <ul> <li>ROHS conformity</li> <li>UL approval</li> </ul> </li> <li>Yes</li> </ul>	ambient conditions	
<ul> <li>during storage         <ul> <li>during transport</li> <li>40 +70 °C</li> </ul> </li> <li>protection class IP         <ul> <li>IP20</li> </ul> </li> <li>product features, product functions, product components / general</li> </ul> <li>product feature <ul> <li>silicon-free</li> <li>Yes</li> </ul> </li> <li>product component <ul> <li>PG connection socket</li> <li>strain relief</li> <li>Yes</li> </ul> </li> <li>standards, specifications, approvals</li> <li>certificate of suitability <ul> <li>RoHS conformity</li> <li>Yes</li> </ul> </li> <li>UL approval</li> <li>Yes</li>	ambient temperature	
• during transport     • during transport     protection class IP     IP20  product features, product functions, product components / general  product feature     • silicon-free     Yes  product component     • PG connection socket     • strain relief     Yes  standards, specifications, approvals  certificate of suitability     • RoHS conformity     Yes  • UL approval  PO +70 °C  IP20  Pes  Yes	<ul> <li>during operation</li> </ul>	-25 +60 °C
protection class IP IP20  product features, product functions, product components / general  product feature  • silicon-free Yes  product component  • PG connection socket Yes  • strain relief Yes  standards, specifications, approvals  certificate of suitability  • RoHS conformity Yes  • UL approval Yes	<ul> <li>during storage</li> </ul>	-40 +70 °C
product features, product functions, product components / general  product feature  • silicon-free  PG connection socket  • strain relief  * yes  * standards, specifications, approvals  certificate of suitability  • RoHS conformity  • UL approval  Yes	during transport	-40 +70 °C
product feature  • silicon-free  PG connection socket  • strain relief  standards, specifications, approvals  certificate of suitability  • RoHS conformity  • UL approval  Yes  Yes  Yes  Yes	protection class IP	IP20
silicon-free     product component         PG connection socket         strain relief         Yes      standards, specifications, approvals  certificate of suitability         RoHS conformity         Ves          UL approval         Yes	product features, product functions, product components / general	
product component  PG connection socket strain relief Yes  standards, specifications, approvals  certificate of suitability RoHS conformity Yes  UL approval Yes	product feature	
PG connection socket  strain relief  Yes  standards, specifications, approvals  certificate of suitability  RoHS conformity  UL approval  Yes  Yes	• silicon-free	Yes
● strain relief  Standards, specifications, approvals  Certificate of suitability  ● RoHS conformity  ● UL approval  Yes	product component	
standards, specifications, approvals  certificate of suitability  • RoHS conformity  • UL approval  Yes	<ul> <li>PG connection socket</li> </ul>	Yes
certificate of suitability  • RoHS conformity  • UL approval  Yes	strain relief	Yes
<ul> <li>RoHS conformity</li> <li>UL approval</li> <li>Yes</li> <li>Yes</li> </ul>	standards, specifications, approvals	
• UL approval Yes	certificate of suitability	
•	<ul> <li>RoHS conformity</li> </ul>	Yes
reference code	UL approval	Yes
	reference code	

according to IEC 81346-2 XF

further information / internet links

internet link

 to website: Selection guide for cables and connectors

https://sie.ag/2QdlxcP

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