## **SIEMENS**

## **Data sheet**

## 6ES7972-0BA52-0XA0

product description



PROFIBUS bus connector, RS 485, Fast Connect, without programming port,  $90^{\circ}$ 

SIMATIC DP, Connection plug for PROFIBUS up to 12 Mbit/s 90° cable outlet, Insulation displacement method FastConnect, without PG socket 15.8x 59x 35.6 mm (BxHxD)

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	transfer rate	
number of electrical connections	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 network components or terminal equipment  type of electrical connection / FastConnect  type of electrical connection / FastConnect  results of terminating resistor machanical 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 59 mm depth 35.6 mm net weight 36 g  ambient conditions  ambient temperature • during operation • during storage • during transport product features, product functions, product components / general  product feature • Silicon-free  product component • PG connections, approvals certificate of suitability	interfaces	
• for network components or terminal equipment type of electrical connection • for network components or terminal equipment type of electrical connection / FastConnect ryes  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 6epth 15.6 mm net weight 35.6 mm net weight 35.6 mm net weight 40uring operation 40uring operation 40uring storage 40u+70 °C protection class IP product feature • slitcon-free product component • PG connections, approvals certificate of suitability  resistor combination 9-pin sub D connector yes  Resistor combination integrated and connectable via slide switch netwere and connectable via slide switch netwesparted and connectable via slide switch netwell of the enclosure 9-pin sub D connector yes  Resistor combination integrated and connectable via slide switch netwesparted and connectable via slide switch netwell of the enclosure 9-pin sub D connector yes  product feature 9-pin sub D connector  Yes  ### Connection integrated and connectable via slide switch netwell of the enclosure  15.8 mm 15.	number of electrical connections	
type of electrical connection  • for network components or terminal equipment  type of electrical connection / FastConnect  **Resistor combination integrated and connectable via slide switch  material / of the enclosure  locking mechanism design  design, dimensions and weights  type of cable outlet  width  height  59 mm  depth  15.8 mm  height  59 mm  depth  35.6 mm  net weight  36 g  **ambient conditions**  ambient temperature  • during operation • during storage • during transport  rotection class IP  product features, product functions, product components / general  product feature  • silicon-free  product component • PG connection s, approvals  certificate of suitability	<ul> <li>for PROFIBUS cables</li> </ul>	2
• 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     height     height     depth     net weight     ambient conditions  ambient temperature     • during operation     • during storage     • during storage     • during storage     • during transport     product features, product functions, product components / general  product feature     • sliicon-free     per outlet     yes  standards, specifications, approvals  certificate of suitability  Resistor combination  Resistor combination integrated and connectable via slide switch  material / yes  Resistor combination integrated and connectable via slide switch  material / yes  Resistor combination integrated and connectable via slide switch  material / yes  Resistor combination integrated and connectable via slide switch  material / yes  Resistor combination integrated and connectable via slide switch  material / yes  standards / yes  standards, specifications, approvals  certificate of suitability	<ul> <li>for network components or terminal equipment</li> </ul>	1
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 height depth 35.6 mm net weight ambient conditions  ambient temperature during operation during storage during storage during transport product features, product functions, product components / general  product feature strain relief PG connections, approvals  certificate of suitability	type of electrical connection	
design of terminating resistor material / of the enclosure locking mechanism design design, dimensions and weights type of cable outlet width height depth net weight ambient conditions ambient temperature	<ul> <li>for network components or terminal equipment</li> </ul>	9-pin sub D connector
design of terminating resistor material / of the enclosure locking mechanism design design, dimensions and weights type of cable outlet width height depth net weight 35.6 mm net weight ambient conditions ambient temperature • during operation • during transport protection class IP product feature • silicon-free product component • PG connection socket • strain relief  **Yes  **Temperature strain relief  **PG connections, approvals  **Cettificate of suitability  **Resistor combination integrated and connectable via slide switch plastic p	type of electrical connection / FastConnect	Yes
material / of the enclosure locking mechanism design Screwed joint  design, dimensions and weights type of cable outlet  width 15.8 mm height 59 mm  depth net weight 35.6 mm net weight ambient conditions  ambient temperature  • during operation • during storage • during transport product features, product functions, product components / general  product feature  • silicon-free product component • PG connection scoket • strain relief  * Yes  standards, specifications, approvals  certificate of suitability	mechanical data	
locking mechanism design  design, dimensions and weights  type of cable outlet  width  height  depth  stype of cable outlet  you degree cable outlet  you degree cable outlet  15.8 mm  height  59 mm  depth  35.6 mm  net weight  ambient conditions  ambient temperature  of uring operation  during storage  during transport  rock  for conditions  125 +60 °C  140 +70 °C  protection class IP  IP20  product features, product functions, product components / general  product feature  oilicon-free  Pes  product component  OPG connection socket  No  strain relief  Yes  standards, specifications, approvals  certificate of suitability	design of terminating resistor	Resistor combination integrated and connectable via slide switch
type of cable outlet  yidth  15.8 mm  height  490 degree cable outlet  width  15.8 mm  height  59 mm  4epth  35.6 mm  net weight  36 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  product component • PG connection socket • Strain relief  Yes  standards, specifications, approvals  certificate of suitability	material / of the enclosure	plastic
type of cable outlet  width  15.8 mm  height  59 mm  depth  35.6 mm  net weight  36 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  product component • PG connection socket • strain relief  Yes  standards, specifications, approvals  certificate of suitability	locking mechanism design	Screwed joint
width 15.8 mm height 59 mm depth 35.6 mm net weight 36 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 No • strain relief Yes  standards, specifications, approvals  certificate of suitability	design, dimensions and weights	
height 59 mm  depth 35.6 mm  net weight 36 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 No  • strain relief Yes  standards, specifications, approvals  certificate of suitability	type of cable outlet	90 degree cable outlet
depth net weight 35.6 mm  net weight 36 g  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  product component • PG connection socket • strain relief  Yes  standards, specifications, approvals  certificate of suitability	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  product component • PG connection socket • strain relief  standards, specifications, approvals  certificate of suitability	height	59 mm
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  product component • PG connection socket • strain relief  standards, specifications, approvals  certificate of suitability	depth	35.6 mm
ambient temperature  • during operation  • during storage  • during transport  • during transport  • during transport  protection class IP  IP20  product features, product functions, product components / general  product feature  • silicon-free  PG connection socket  • strain relief  standards, specifications, approvals  certificate of suitability	net weight	36 g
<ul> <li>during operation</li> <li>during storage</li> <li>40 +70 °C</li> <li>during transport</li> <li>-40 +70 °C</li> <li>protection class IP</li> <li>IP20</li> <li>product features, product functions, product components / general</li> <li>product feature</li> <li>silicon-free</li> <li>Yes</li> <li>product component</li> <li>PG connection socket</li> <li>strain relief</li> <li>Yes</li> <li>standards, specifications, approvals</li> <li>certificate of suitability</li> </ul>	ambient conditions	
<ul> <li>during storage         <ul> <li>during transport</li> <li>40 +70 °C</li> </ul> </li> <li>protection class IP</li></ul>	ambient temperature	
<ul> <li>during transport         <ul> <li>-40 +70 °C</li> </ul> </li> <li>protection class IP</li></ul>	<ul> <li>during operation</li> </ul>	-25 +60 °C
protection class IP IP20  product features, product functions, product components / general  product feature	<ul> <li>during storage</li> </ul>	-40 +70 °C
product features, product functions, product components / general  product feature  • silicon-free  product component  • PG connection socket  • strain relief  Yes  standards, specifications, approvals  certificate of suitability	during transport	-40 +70 °C
product feature  • silicon-free  product component  • PG connection socket  • strain relief  standards, specifications, approvals  certificate of suitability	protection class IP	IP20
silicon-free     yes  product component     PG connection socket     strain relief     yes  standards, specifications, approvals  certificate of suitability  Yes	product features, product functions, product components	/ general
product component  PG connection socket  strain relief  Yes  standards, specifications, approvals certificate of suitability	product feature	
PG connection socket     No     strain relief     Yes  standards, specifications, approvals certificate of suitability	• silicon-free	Yes
• strain relief Yes  standards, specifications, approvals certificate of suitability	·	
standards, specifications, approvals certificate of suitability	<ul> <li>PG connection socket</li> </ul>	No
certificate of suitability		Yes
	standards, specifications, approvals	
RoHS conformity  Yes	certificate of suitability	
	<ul> <li>RoHS conformity</li> </ul>	Yes

UL approval	Yes
reference code	
• acc. to IEC 81346-2	XF
further information / internet-Links	
Internet-Link	
<ul> <li>to website: Selection guide for cables and connectors</li> </ul>	https://sie.ag/2QdlxcP
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