

Data sheet

6AG1972-0BB42-7XA0

Product description

PROFIBUS bus connector, RS 485, screw, with PG socket, 35°
SIPLUS DP PB-CONNECTOR WITH R - W PG - ANGLED -40 ...
+70°C with conformal coating based on 6ES7972-0BB42-0XA0



Figure similar

Suitability for use	For connecting PROFIBUS nodes to the PROFIBUS bus cable
Transfer rate	
Transfer rate / with PROFIBUS DP	9.6 kbit/s ... 12 Mbit/s
Interfaces	
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	Integrated resistor combination that can be selected with slide switch
Material / of the enclosure	plastic
Type of cable outlet	35 degree cable outlet

Width	15.8 mm
Height	54 mm
Depth	39.5 mm
Net weight	67 g

Ambient conditions

Ambient temperature	
• in horizontal mounting position / during operation	70 ... -40 °C
• during storage and transport	70 ... -40 °C
Installation altitude / at height above sea level / maximum	5000 m
Ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1140 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20 K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
• with condensation / acc. to IEC 60068-2-38 / maximum	100 %
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 60721-3-6	Yes
Resistance to chemically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
• conformity acc. to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Resistance to mechanically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust; *
• conformity acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
Environmental category / acc. to IEC 60721 / Note	*. The supplied plug covers must remain in place on 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
• for electronic devices in railway applications acc. to EN 50155	Yes
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

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

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET 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

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