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Data sheet 6AG1972-0BA42-7XA0

product description	PROFIBUS bus connector, RS 485, screw, without programming port, 35° SIPLUS DP PB CONNECTOR W R - TILTED CABLE OUTLET -40 ... +70 °C with conformal coating based on 6ES7972-0BA41-0XA0



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	Resistor combination integrated and connectable via slide switch
material / of the enclosure	plastic
locking mechanism design	Screwed joint

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design, dimensions and weights	
type of cable outlet	35 degree cable outlet
width	15.8 mm
height	54 mm
depth	39.5 mm
net weight	60 g

ambient conditions	
ambient temperature	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• 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 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
relative humidity	
• with condensation / maximum	100 %; RH incl. condensation/frost permitted (no commissioning in bedewed state)
• with condensation / acc. to IEC 60068-2-38 / maximum	100 %; RH including condensation/frost (no commissioning when condensation is present), horizontal installation
resistance to biologically active substances	
• conformity acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
• conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
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 over the unused interfaces during operation!
coating / for equipped printed circuit board / acc. to EN 61086	Yes; Class 2 for high reliability
type of coating	

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• protection against pollution according to EN 60664-3	Yes; Type 1 protection
• for electronic devices in railway applications acc. to EN 50155	Yes; protective coating of the Class PC2 according to EN 50155:2022
type of test / of the coating / acc. to MIL-I-46058C	Yes; Discoloration of coating possible during service life
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	No
• strain relief	Yes

standards, specifications, approvals

certificate of suitability	
• RoHS conformity	Yes
• UL approval	Yes
reference code	
• acc. to IEC 81346-2	XG

further information / internet-Links

Internet-Link	
• to web page: selection aid 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

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