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Data sheet 6AG1972-0BB12-2XA0

SIPLUS DP PROFIBUS connector M R + PG 90°Cable outlet - 25...+70°C with conformal coating based on 6ES7972-0BB12-0XA0



mechanical data	
locking mechanism design	Screwed joint
ambient conditions	
ambient temperature	
• during operation	-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

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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	
• 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 50155:2023
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

standards, specifications, approvals

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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