SIEMENS

Data sheet

6AG2193-6BP20-4DA0

SIPLUS ET 200SP BU15-P16+A10+2D TX RAIL -40 ... +70°C TX with 85°C for 10 minutes with conformal coating based on 6ES7193-6BP20-0DA0 . BU type A0, Push-in terminals, with 10 AUX terminals, New load group, WxH: 15x141 mm



Figure similar

| General information | |
|--|---|
| Product type designation | BU type A0 |
| | |
| Supply voltage | |
| Rated value (DC) | 24 V |
| external protection for power supply lines | Yes; 24 V DC/10 A miniature circuit breaker with type B or C |
| | tripping characteristic |
| | |
| Current carrying capacity | |
| up to 60 °C, max. | 10 A |
| | |
| Potential separation | |
| between backplane bus and supply voltage | Yes |
| between the potential groups | Yes |
| | |
| Isolation | |
| Isolation tested with | 707 V DC (type test) and according to EN 50155 (routine test) |
| | |
| Standards, approvals, certificates | |
| Railway application | |
| | |

| • EN 50121-3-2 | Yes; EMC for rail vehicles |
|--------------------------------------|--|
| • EN 50121-4 | Yes; EMC for signal and telecommunications systems |
| • EN 50124-1 | Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC |
| • EN 50125-1 | Yes; Rail vehicles - see ambient conditions |
| • EN 50125-2 | Yes; Stationary electrical equipment - see ambient conditions |
| • EN 50125-3 | Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track) |
| • EN 50155 | Yes; Rail vehicles - temperature class Tx, horizontal mounting position, salt spray Class ST2 |
| • EN 61373 | Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B |
| • Fire protection acc. to EN 45545-2 | Yes; Rail vehicles - verification on request |

| Ambient conditions | | |
|---|--|--|
| Ambient temperature during operation | | |
| horizontal installation, min. | -40 °C; = Tmin (incl. condensation/frost) | |
| horizontal installation, max. | 70 °C; = Tmax; +85 °C for 10 min (Tx acc. to EN 50155) | |
| Altitude during operation relating to sea level | | |
| Installation altitude above sea level, max. | 2 000 m | |
| Ambient air temperature-barometric pressure- altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) | |
| Relative humidity | | |
| With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) | |
| Resistance | | |
| Coolants and lubricants | | |
| Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air | |
| Use in stationary industrial systems | | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request | |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); * | |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * | |
| Use on land craft, rail vehicles and special-purpose vehicles | | |
| — to biologically active substances according to EN 60721-3-5 | Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request | |
| — to chemically active substances according to EN 60721-3-5 | Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 50155 (ST2); * | |
| — to mechanically active substances according to EN 60721-3-5 | Yes; Class 5S3 incl. sand, dust; * | |
| Remark | | |
| | | |

| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
|---|---|
| Conformal coating | |
| Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high availability |
| Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| Electronic equipment on rolling stock acc. to EN 50155 | Yes; Class PC2 protective coating acc. to EN 50155:2017 |
| Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life |
| Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A |
| Dimensions | |
| Width | 15 mm |
| Height | 141 mm |
| Weights | |
| Weight, approx. | 50 g |
| Other | |
| Note: | For use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A Online Support article 109736776 |
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