



Figure similar

SIPLUS ET 200SP BU20-P12+A0+4B TYP B1 based on 6ES7193-6BP20-0BB1 with conformal coating, -40...+70 °C, BU type B1, push-in terminals, without AUX terminals, bridged to the left, WxH: 20 mm x 117 mm

| General information | |
|---|--|
| Product type designation | BU type B1 |
| based on | 6ES7193-6BP20-0BB1 |
| Supply voltage | |
| Rated value (DC) | See manual |
| • For P1 and P2 bus | 24 V |
| • For AUX bus | 24 V; Equal potential group to P1/P2 bus or PE |
| • for process terminals | 24 V |
| Rated value (AC) | See manual |
| • For P1 and P2 bus | 230 V |
| • For AUX bus | 230 V; Equal potential group to P1/P2 bus or PE |
| • for process terminals | 230 V |
| external protection for power supply lines | Yes |
| Mains filter | |
| • integrated | No |
| Current carrying capacity | |
| up to 60 °C, max. | 10 A |
| For P1 and P2 bus, max. | 10 A |
| For AUX bus, max. | 10 A |
| For process terminals, max. | 5 A |
| Hardware configuration | |
| Automatic encoding | Yes |
| Slots | |
| • Number of slots | 1 |
| Potential separation | |
| between backplane bus and supply voltage | Yes |
| between process terminals and supply voltage | Yes; Not applicable for process terminals 9 to 12 |
| between power bus and supply voltage | Yes |
| Isolation | |
| Isolation tested with | 3 100 V DC |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C |
| • horizontal installation, max. | 70 °C; = Tmax |
| • vertical installation, min. | -40 °C; = Tmin |
| • vertical installation, max. | 50 °C; = Tmax |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 3 000 m |

| | | | |
|---|--------|---|----------------|
| ● Ambient air temperature-barometric pressure-altitude | | Tmin .. Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... Tmax -5K) at 795 hPa ... 701 hPa (+2 000 m ... +3 000 m) | |
| Relative humidity | | | |
| ● With condensation, tested in accordance with IEC 60068-2-38, max. | | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation | |
| 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, * | |
| — Against mechanical environmental conditions acc. to EN 60721-3-3 | | Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) | |
| Use on ships/at sea | | | |
| — to biologically active substances according to EN 60721-3-6 | | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request | |
| — to chemically active substances according to EN 60721-3-6 | | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * | |
| — to mechanically active substances according to EN 60721-3-6 | | Yes; Class 6S3 incl. sand, dust; * | |
| — Against mechanical environmental conditions acc. to EN 60721-3-6 | | Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) | |
| Usage in industrial process technology | | | |
| — Against chemically active substances acc. to EN 60654-4 | | Yes; Class 3 (excluding trichlorethylene) | |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) | |
| 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 reliability | |
| ● Protection against fouling acc. to EN 60664-3 | | Yes; Type 1 protection | |
| ● 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 | | 20 mm | |
| Height | | 117 mm | |
| Depth | | 35 mm | |
| Weights | | | |
| Weight, approx. | | 48 g | |
| Classifications | | | |
| | | Version | Classification |
| | eClass | 14 | 27-24-26-03 |
| | eClass | 12 | 27-24-26-03 |
| | eClass | 9.1 | 27-24-26-03 |
| | eClass | 9 | 27-24-26-03 |
| | eClass | 8 | 27-24-26-03 |
| | eClass | 7.1 | 27-24-26-03 |
| | eClass | 6 | 27-24-26-03 |
| | ETIM | 10 | EC001598 |
| | ETIM | 9 | EC001598 |

| | | |
|--------|----|-------------|
| ETIM | 8 | EC001598 |
| ETIM | 7 | EC001598 |
| IDEA | 4 | 3560 |
| UNSPSC | 15 | 32-15-17-04 |

Approvals / Certificates

| | |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|

[Manufacturer Declaration](#)


EG-Konf.



[China RoHS](#)


UL


RCM

| | |
|--------------------------------|----------------------|
| For use in hazardous locations | Maritime application |
|--------------------------------|----------------------|


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