SIEMENS

## Data sheet 6AG1505-0RA00-7AB0



Figure similar

SIPLUS S7-1500 PS 1505 60W 24/48/60V DC based on 6ES7505-0RA00-0AB0 with conformal coating, -40…+70 °C, start up -25 °C, system power supply supplies the backplane bus of the S7-1500 with operating voltage

| | |
|---|---|
| **General information** | |
| Product type designation | PS 60 W 24/48/60 V DC |
| based on | 6ES7505-0RA00-0AB0 |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275 |
| **Supply voltage** | |
| Rated value (DC) | 24 V / 48 V / 60 V |
| permissible range, lower limit (DC) | 19.2 V; Static 19.2 V, dynamic 18.5 V |
| permissible range, upper limit (DC) | 72 V; Static 72 V, dynamic 75.5 V |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Input current** | |
| Rated value at 24 V DC | 3 A |
| Rated value at 48 V DC | 1.5 A |
| Rated value at 60 V DC | 1.2 A |
| **Power** | |
| Infeed power to the backplane bus | 60 W; > +60 °C max. power input 30 W |
| **Power loss** | |
| Power loss at nominal rating conditions | 12 W |
| **Interrupts/diagnostics/status information** | |
| Status indicator | Yes |
| **Potential separation** | |
| primary/secondary | Yes; Electrical isolation for 230 V AC (reinforced isolation) |
| **Isolation** | |
| Isolation tested with | 2 500 V DC/2 s (routine test) |
| **EMC** | |
| Interference immunity against voltage surge | |
| ● Interference immunity on supply lines acc. to IEC 61000-4-5 | Yes; ±1 kV (acc. to IEC 61000-4-5; 1995; surge symm.), ±2 kV (acc. to IEC 61000-4-5; 1995; surge asymm.), no external protective circuit required |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| Equipment protection class | I, with protective conductor |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C |
| ● max. | 70 °C; = Tmax; > +60 °C max. power input 30 W; for vertical mounting position Tmax = +40 °C |


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|---|---|
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| ● max. | 70 °C |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 5 000 m |
| ● Ambient air temperature-barometric pressure-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, 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 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; * |
| 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 | 70 mm |
| Height | 147 mm |
| Depth | 129 mm |
| **Weights** | |
| Weight, approx. | 600 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 14 | 27-24-22-09 |
| eClass | 12 | 27-24-22-09 |
| eClass | 9.1 | 27-24-22-09 |
| eClass | 9 | 27-24-22-09 |
| eClass | 8 | 27-24-22-09 |
| eClass | 7.1 | 27-24-22-09 |
| eClass | 6 | 27-24-22-09 |
| ETIM | 10 | EC000599 |
| ETIM | 9 | EC000599 |


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|---|---|---|
| ETIM | 8 | EC000599 |
| ETIM | 7 | EC000599 |
| IDEA | 4 | 3575 |
| UNSPSC | 15 | 32-15-17-06 |

## Approvals / Certificates

| General Product Approval | | | | EMV |
|---|---|---|---|---|
| CE EG-Konf. | Manufacturer Declaration | UKCA | China RoHS | UL | KC |

| EMV | For use in hazardous locations | | Maritime application |
|---|---|---|---|
| RCM | ATEX | IECEx | DNV |

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