

SIPLUS S7-1500 DO 8x230V AC/2A -40...+70 °C with conformal coating based on 6ES7522-5FF00-0AB0 . Digital output module "DQ 8xAC 230V/2A; TRIAC;" "8 channels in groups of 1;" "2 A per group;" Substitute value



Figure similar

| General information | |
|--|---|
| Product type designation | DQ 8x230 V AC/2A ST (triac) |
| Product function | |
| • I&M data | Yes; I&M0 to I&M3 |
| Output voltage | |
| Rated value (AC) | 120/230 V AC, 50/60 Hz |
| Power | |
| Power available from the backplane bus | 0.9 W |
| Power loss | |
| Power loss, typ. | 10.8 W |
| Digital outputs | |
| Type of digital output | Triac |
| Number of digital outputs | 8; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current 2 A |
| Size of motor starters according to NEMA, max. | 5 |
| Switching capacity of the outputs | |

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| • with resistive load, max. | 2 A |
| • on lamp load, max. | 50 W |
| Output voltage | |
| • for signal "1", min. | L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum output current |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" permissible range, min. | 10 mA |
| • for signal "1" permissible range, max. | 15 A; max. 1 AC cycle |
| • for signal "0" residual current, max. | 2 mA |
| Output delay with resistive load | |
| • "0" to "1", max. | 1 AC cycle |
| • "1" to "0", max. | 1 AC cycle |
| Parallel switching of two outputs | |
| • for logic links | No |
| • for uprating | No |
| • for redundant control of a load | Yes |
| Switching frequency | |
| • with resistive load, max. | 10 Hz |
| • with inductive load, max. | 0.5 Hz |
| • on lamp load, max. | 1 Hz |
| Total current of the outputs | |
| • Current per channel, max. | 2 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A |
| • Current per group, max. | 2 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A |
| • Current per module, max. | 10 A; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current per group 2 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Isochronous mode | |
| Isochronous operation (application synchronized up to terminal) | No |
| Interrupts/diagnostics/status information | |
| Diagnostics function | No |
| Substitute values connectable | Yes |
| Alarms | |
| • Diagnostic alarm | No |
| Diagnostic messages | |
| • Monitoring the supply voltage | No |
| • Wire-break | No |

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| • Short-circuit | No |
| • Fuse blown | No |
| Diagnostics indication LED | |
| • RUN LED | Yes; Green LED |
| • ERROR LED | Yes; Red LED |
| • Monitoring of the supply voltage (PWR-LED) | No |
| • Channel status display | Yes; Green LED |
| • for channel diagnostics | No |
| • for module diagnostics | Yes; Red LED |
| Potential separation | |
| Potential separation channels | |
| • between the channels | Yes |
| • between the channels, in groups of | 1 |
| • between the channels and backplane bus | Yes |
| • Between the channels and load voltage L1 | Yes |
| Permissible potential difference | |
| between different circuits | 250 V AC between the channels and the backplane bus; 500 V AC between the channels |
| Isolation | |
| Isolation tested with | 2500 V DC |
| Ambient conditions | |
| Ambient temperature during operation | |
| • horizontal installation, min. | -40 °C; = Tmin |
| • horizontal installation, max. | 70 °C; = Tmax; > +60 °C number of simultaneously controllable outputs max. 8x 0.25 A, max. total current 2 A |
| • vertical installation, min. | -40 °C; = Tmin |
| • vertical installation, max. | 40 °C; = Tmax |
| 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 |

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| — 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; * |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721 | * 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 |
| • 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 |
| Decentralized operation | |
| Fast Startup supported | Yes; 500 ms |
| Dimensions | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| Weights | |
| Weight, approx. | 290 g |
| last modified: | 10/22/2018 |