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Data sheet 6AG1522-5HF00-2AB0



Figure similar

SIPLUS S7-1500 DQ 8x230V AC/5A based on 6ES7522-5HF00-0AB0 with conformal coating, -25…+60 °C, digital output module, 8 channels in groups of 1; 5 A per group; diagnostics; substitute value

General information	
Product type designation	DQ 8x230 V AC/5 A ST (relay)
Product function	
● I&M data	Yes; I&M0 to I&M3
● Isochronous mode	No
● Fast startup	Yes; 500 ms
Operating mode	
● MSO	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, max.	80 mA
Power	
Power available from the backplane bus	0.8 W
Power loss	
Power loss, typ.	3 W
Digital outputs	
Type of digital output	Relays
Number of digital outputs	8
Digital outputs, parameterizable	Yes
Short-circuit protection	No
Controlling a digital input	possible
Size of motor starters according to NEMA, max.	5
Switching capacity of the outputs	
● on lamp load, max.	1 500 W; 10 000 operating cycles
● Low energy/fluorescent lamps with electronic control gear	10x 58 W (25 000 operating cycles)
● Fluorescent tubes, conventionally compensated	1x 58 W (25 000 operating cycles)
● Fluorescent tubes, uncompensated	10x 58 W (25 000 operating cycles)
Output current	
● for signal "1" rated value	5 A
● for signal "1" permissible range, min.	5 mA; 10 V
● for signal "1" permissible range, max.	8 A; thermal continuous current
● for signal "0" residual current, max.	0 A
Parallel switching of two outputs	
● for logic links	Yes

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● for uprating	No
● for redundant control of a load	Yes
Switching frequency	
● with resistive load, max.	2 Hz
● with inductive load, max.	0.5 Hz
● on lamp load, max.	2 Hz
Total current of the outputs	
● Current per channel, max.	8 A; note derating data in the manual
● Current per group, max.	8 A; note derating data in the manual
● Current per module, max.	64 A; note derating data in the manual
Relay outputs	
● Number of relay outputs	8
● Rated supply voltage of relay coil L+ (DC)	24 V
● Current consumption of relays (coil current of all relays), max.	80 mA
● external protection for relay outputs	With miniature circuit breaker with characteristic B for: cos φ 1.0: 600 A cos φ 0.5 ... 0.7: 900 A with 8 A Diazed fuse: 1 000 A
● Contact connection (internal)	No
● Number of operating cycles, max.	4 000 000; see additional description in the manual
● Relay approved acc. to UL 508	Yes; 250 V AC/5 A g.p.; 120 V AC TV-4 tungsten; A300, R300
Switching capacity of contacts	
— with inductive load, max.	see additional description in the manual
— with resistive load, max.	see additional description in the manual
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
● Diagnostic alarm	Yes
Diagnoses	
● Monitoring the supply voltage	Yes
● Wire-break	No
● Short-circuit	No
Diagnostics indication LED	
● RUN LED	Yes; green LED
● ERROR LED	Yes; red LED
● Monitoring of the supply voltage (PWR-LED)	Yes; green LED
● 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; Switching of different phases permitted
● between the channels, in groups of	1
● between the channels and backplane bus	Yes
● Between the channels and load voltage L+	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC (base isolation) between backplane bus and the supply voltage L+; 250 V AC between the channels and the supply voltage L+; 250 V AC between the channels and the backplane bus; 500 V AC between the channels
Isolation	
Isolation tested with	Between the channels: 2 500 V DC; between the channels and backplane bus: 2 500 V DC; between L+ backplane bus 707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	

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● horizontal installation, min.	-25 °C; = Tmin (incl. condensation/frost)
● horizontal installation, max.	60 °C; = Tmax
● vertical installation, min.	-25 °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
— 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	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	200 g

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