SIEMENS

Data sheet

6AG1522-5HF00-2AB0



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

Figure similar

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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	
• 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),	80 mA
max. • external protection for relay outputs	With miniature circuit breaker with characteristic B for: cos φ 1.0: 600 A cos φ
On the standard stine (interest)	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	
horizontal installation, min.	-25 °C; = Tmin (incl. condensation/frost)
horizontal installation, max.	60 °C; = Tmax
vertical installation, min.	-25 °C; = Tmin
	40 °C; = Tmax
 vertical installation, max. 	

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
imensions	
Width	35 mm
Height	147 mm
Depth	129 mm
/eights	
Weight, approx.	200 g

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