## **SIEMENS**

## Data sheet

## 6AG1522-5HF00-2AB0

SIPLUS S7-1500 DQ 8X230VAC/5A S -25 ... +60°C with conformal coating based on 6ES7522-5HF00-0AB0 . DIGITAL OUTPUT MODULE DQ 8 X "230VAC/5A,RELAY; 8 CHANNELS IN" "GROUPS OF 1, 5A PER GROUP;" "DIAGNOSIS; SUBSTITUTE VALUE"



Figure similar

General information	
Product type designation	DQ 8x230 V AC/5 A ST (relay)
Product function	
• I&M data	Yes; I&M0 to I&M3
<ul> <li>Isochronous mode</li> </ul>	No
• Fast startup	Yes; 500 ms
Operating mode	
• MSO	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 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	
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	
<ul> <li>Low energy/fluorescent lamps with electronic control gear</li> </ul>	10x 58 W (25 000 operating cycles)	
• Fluorescent tubes, conventionally compensated	1x 58 W (25 000 operating cycles)	
<ul> <li>Fluorescent tubes, uncompensated</li> </ul>	10x 58 W (25 000 operating cycles)	
Output current		
● for signal "1" rated value	5 A	
<ul> <li>for signal "1" permissible range, min.</li> </ul>	5 mA; 10 V	
• for signal "1" permissible range, max.	8 A; thermal continuous current	
<ul> <li>for signal "0" residual current, max.</li> </ul>	0 A	
Parallel switching of two outputs		
● for logic links	Yes	
<ul> <li>for uprating</li> </ul>	No	
<ul> <li>for redundant control of a load</li> </ul>	Yes	
Switching frequency		
<ul> <li>with resistive load, max.</li> </ul>	2 Hz	
<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz	
<ul> <li>on lamp load, max.</li> </ul>	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		
<ul> <li>Number of relay outputs</li> </ul>	8	
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> </ul>	24 V	
• Current consumption of relays (coil current of all relays), max.	80 mA	
<ul> <li>external protection for relay outputs</li> </ul>	With miniature circuit breaker with characteristic B for: $\cos \phi$ 1.0: 600 A $\cos \phi$ 0.5 0.7: 900 A with 8 A Diazed fuse: 1 000 A	
<ul> <li>Contact connection (internal)</li> </ul>	No	
<ul> <li>Number of operating cycles, max.</li> </ul>	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		
<ul> <li>shielded, max.</li> </ul>	1 000 m	
• unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms	Yes	
Diagnostic alarm	Yes	
Diagnostic messages	Yes	
Monitoring the supply voltage		
• Wire-break	No	
• Short-circuit	No	
Diagnostics indication LED	Very merel ED	
• RUN LED	Yes; green LED	
• ERROR LED	Yes; red LED	
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	Yes; green LED	
<ul> <li>Channel status display</li> </ul>	Yes; green LED	
<ul> <li>for channel diagnostics</li> </ul>	No	
<ul> <li>for module diagnostics</li> </ul>	Yes; red LED	
Potential separation		
Potential separation channels		
<ul> <li>between the channels</li> </ul>	Yes; Switching of different phases permitted	
<ul> <li>between the channels, in groups of</li> </ul>	1	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
<ul> <li>Between the channels and load voltage L+</li> </ul>	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		

<ul> <li>horizontal installation, min.</li> </ul>	-25 °C; = Tmin (incl. condensation/frost)
<ul> <li>horizontal installation, max.</li> </ul>	60 °C; = Tmax
<ul> <li>vertical installation, min.</li> </ul>	-25 °C; = Tmin
<ul> <li>vertical installation, max.</li> </ul>	40 °C; = Tmax
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	
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	
<ul> <li>Resistant to commercially available coolants and lubricants</li> </ul>	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul> <li>— to biologically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
<ul> <li>— to chemically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-3</li> </ul>	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
<ul> <li>— to biologically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
<ul> <li>— to chemically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *
<ul> <li>— to mechanically active substances according to EN 60721-3-6</li> </ul>	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
<ul> <li>Against chemically active substances acc. to EN 60654-4</li> </ul>	Yes; Class 3 (excluding trichlorethylene)
<ul> <li>Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	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	
<ul> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
<ul> <li>Coatings for printed circuit board assemblies acc. to EN 61086</li> </ul>	Yes; Class 2 for high reliability
<ul> <li>Protection against fouling acc. to EN 60664-3</li> </ul>	Yes; Type 1 protection

<ul> <li>Military testing according to MIL-I-46058C, Amendment 7</li> </ul>	Yes; Discoloration of coating possible during service life
<ul> <li>Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	Yes; Conformal coating, Class A
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	200 g
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