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

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General information	
Product type designation	DQ 8x230 V AC/5 A ST (relay)
based on	6ES7522-5HF00-0AB0
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
• Fast startup	Yes; 500 ms
Engineering with	
STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
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 consumption 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	2 47
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: $\cos\phi$ 1.0: 600 A $\cos\phi$ 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	100
Diagnostic alarm	Yes
Diagnoses	103
Monitoring the supply voltage	Yes
 Wire-break 	No
• Short-circuit	No
Diagnostics indication LED	
Diagnostics indication LED • RUN LED	Yes; green LED
Diagnostics indication LED • RUN LED • ERROR LED	Yes; green LED Yes; red LED
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED)	Yes; green LED Yes; red LED Yes; green LED
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes; green LED Yes; red LED
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED)	Yes; green LED Yes; red LED Yes; green LED
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes; green LED Yes; red LED Yes; green LED Yes; green LED
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED
Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted
Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels, in groups of	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted 1
Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels and backplane bus	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; Switching of different phases permitted 1 Yes
Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels, in groups of between the channels and backplane bus Between the channels and load voltage L+ Permissible potential difference	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; Switching of different phases permitted 1 Yes Yes
Diagnostics indication LED RUN LED ERROR LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Potential separation Potential separation channels between the channels between the channels and backplane bus Between the channels and load voltage L+	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; Switching of different phases permitted 1 Yes
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • Potential separation Potential separation channels • between the channels • between the channels and backplane bus • Between the channels and load voltage L+ Permissible potential difference	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted 1 Yes Yes Yes Yes
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • Between the channels and load voltage L+ Permissible potential difference between different circuits	Yes; green LED Yes; red LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted 1 Yes Yes Yes Yes
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • Potential separation Potential separation channels • between the channels • between the channels and backplane bus • Between the channels and load voltage L+ Permissible potential difference between different circuits	Yes; green LED Yes; green LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted 1 Yes Yes Yes 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 Between the channels: 2 500 V DC; between the channels and backplane bus:
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and load voltage L+ Permissible potential difference between different circuits Isolation Isolation tested with	Yes; green LED Yes; green LED Yes; green LED Yes; green LED No Yes; red LED Yes; Switching of different phases permitted 1 Yes Yes Yes 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 Between the channels: 2 500 V DC; between the channels and backplane bus:
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Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • Between the channels and load voltage L+ Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions Ecological footprint	Yes; green LED Yes; green LED Yes; green LED Yes; green LED No Yes; red LED Yes; switching of different phases permitted 1 Yes Yes Yes 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 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) No
Diagnostics indication LED • RUN LED • ERROR LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and load voltage L+ Permissible potential difference between different circuits Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	Yes; green LED Yes; green LED Yes; green LED No Yes; red LED Yes; red LED Yes; Switching of different phases permitted 1 Yes Yes Yes 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 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)

 global warming potential, (total) [CO2 eq] 	43.8 kg		
— global warming potential, (during production) [CO2	9.5 kg		
eq]			
— global warming potential, (during operation) [CO2	34.5 kg		
eq]	54.5 Kg		
 global warming potential, (after end of life cycle) 	-0.231 kg		
[CO2 eq]	-0.201 kg		
Ambient conditions			
Ambient temperature during operation			
 horizontal installation, min. 	-25 °C; = Tmin (incl. condensat	ion/frost)	
 horizontal installation, max. 	60 °C; = Tmax		
 vertical installation, min. 	-25 °C; = Tmin		
 vertical installation, max. 	40 °C; = Tmax		
	40 0, - Thiax		
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 7	795 hPa (-1 000 m +2 0	00 m)
Relative humidity			
With condensation, tested in accordance with IEC 60068-	100 %; RH incl. condensation/f	rost (no commissioning u	nder condensation
2-38, max.	conditions)		
Resistance			
Coolants and lubricants			
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets	s in the air	
lubricants			
Use in stationary industrial systems			
 — to biologically active substances according to EN 	Yes; Class 3B2 mold, fungus a	nd dry rot spores (with the	e exception of fauna);
60721-3-3	Class 3B3 on request		
 — to chemically active substances according to EN 	Yes; Class 3C4 (RH < 75 %) in	cl. salt spray acc. to EN 6	0068-2-52 (severity
60721-3-3	degree 3); *		
 to mechanically active substances according to EN 	Yes; Class 3S4 incl. sand, dust	*	
60721-3-3			
Use on ships/at sea			
 — to biologically active substances according to EN 	Yes; Class 6B2 mold and funga	al spores (excluding fauna); Class 6B3 on
60721-3-6	request		
 — to chemically active substances according to EN 	Yes; Class 6C3 (RH < 75 %) in	cl. salt spray acc. to EN 6	0068-2-52 (severity
60721-3-6	degree 3); *		
 — to mechanically active substances according to EN 	Yes; Class 6S3 incl. sand, dust	• * '	
60721-3-6			
Usage in industrial process technology			
 Against chemically active substances acc. to EN 	Yes; Class 3 (excluding trichlor	ethylene)	
60654-4			
 Environmental conditions for process, measuring 	Yes; Level GX group A/B (exclu	uding trichlorethylene; har	mful gas
and control systems acc. to ANSI/ISA-71.04	concentrations up to the limits of	of EN 60721-3-3 class 3C	
	LC3 (salt spray) and level LB3	(oil)	
Remark			
 — Note regarding classification of environmental 	* The supplied plug covers mus	st remain in place over the	unused interfaces
conditions acc. to EN 60721, EN 60654-4 and	during operation!		
ANSI/ISA-71.04			
Conformal coating			
 Coatings for printed circuit board assemblies acc. to EN 	Yes; Class 2 for high reliability		
61086			
 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 po	ossible durina service life	
Qualification and Performance of Electrical Insulating	Yes; Conformal coating, Class	-	
Compound for Printed Board Assemblies according to IPC-	res, comornar coauny, class		
CC-830A			
Dimensions			
Width	35 mm		
	55 mm		
Height			
Depth	147 mm		
	147 mm 129 mm		
Weights		_	
	129 mm		
Weights Weight, approx.			
Weights	129 mm		
Weights Weight, approx.	129 mm	Version	Classification
Weights Weight, approx.	129 mm	Version 14	Classification 27-24-22-04
Weights Weight, approx.	129 mm 200 g		

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			IDEA UNSPSC	4 15	3566 32-15-17-05
Approvals / Certificate General Product Ap					EMV
<u>Miscellaneous</u>	Manufacturer Declara- tion	CE EG-Konf.	UK CA		<u>KC</u>
<u>Miscellaneous</u> EMV	Manufacturer Declara- tion		UK CA	(U) u	<u>KC</u>

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