SIEMENS

Data sheet

6AG1522-5FF00-7AB0



SIPLUS S7-1500 DQ 8x230V AC/2A based on 6ES7522-5FF00-0AB0 with conformal coating, -40...+70 °C, digital output module, 8 channels in groups of 1; 2 A per group; substitute value

Figuresimilar

General information	
Product type designation	DQ 8x230 V AC/2A ST (triac)
Product function	
• I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	No
 Fast startup 	Yes; 500 ms
output voltage / header	
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 $^\circ\text{C}$ number of simultaneously controllable outputs max. 8x 0.25 A, max. total current 2 A
Digital outputs, parameterizable	Yes
Short-circuit protection	No
Size of motor starters according to NEMA, max.	5
Switching capacity of the outputs	
 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

Total current per channel, max. 2.A = Timex. > 40° C number of simultaneously controllable outputs max. Bx 0.25 A, max. total current per group 2.A Current per group, max. 2.A = Timex. > 40° C, number of simultaneously controllable outputs max. Bx 0.25 A, max. total current per group 2.A Current per group, max. 2.A = Timex. > 40° C, number of simultaneously controllable outputs max. Bx 0.25 A, max. total current per group 2.A Current per group, max. 10.4 = Timex. > 40° C, number of simultaneously controllable outputs max. Bx 0.25 A, max. total current per group 2.A Citical length 100 en • unshided, max. 000 m • Diagnostic alarm No • Startsthte values connectable Yes. • Alarma No • Diagnostic alarm No • Startsthte values connectable Yes. regen LED • Fue to blown No • Startsthte values connectable Yes. regen LED • Fue to blown No • Startsthte values connectable Yes. regen LED • For channel diagnostics Yes. regen LED • for channet diagn	 on lamp load, max. 	1 Hz
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 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. vertical installation, max. 40 °C; = Tmin vertical installation, max. 40 °C; = Tmin vertical installation relating to sea level Installation altitude above sea level, max. Ambient air temperature-barometric pressure-altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Coolants and lubricants Resistance Coolants and lubricants Ves; Incl. diesel and oil droplets in the air the air the in stationary industrial systems to biologically active substances according to EN 60721-3-3 To chemically active substances according to Yes; Class 3B2 nold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 		
max. 8x 0.25 A, max. total current 2 A• vertical installation, min40 °C; = Tmin• vertical installation, max.40 °C; = TmaxAltitude during operation relating to sea level-40 °C; = Tmax• Installation altitude above sea level, max.2 000 m• Ambient air temperature-barometric pressure- altitudeTmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)Relative humidity100 %; RH incl. condensation/frost (no commissioning under condensation conditions)Resistance100 %; RH incl. condensation/frost (no commissioning under condensation conditions)Coolants and lubricantsYes; Incl. diesel and oil droplets in the air- to biologically active substances according to EN 60721-3-3Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request- to chemically active substances according to EN 60721-3-3Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52		
• vertical installation, max. 40 °C; = Tmax Altitude during operation relating to sea level 2 000 m • 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 Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) • With condensation, tested in accordance with IEC 60068-2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) Resistance 100 %; RH incl. condensation conditions) Coolants and lubricants Yes; Incl. diesel and oil droplets in the air and lubricants Use in stationary industrial systems 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		max. 8x 0.25 A, max. total current 2 A
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EN 60721-3-3fauna); Class 3B3 on request— to chemically active substances according toYes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52		Vec: Class 3B2 mold fungue and dry rat shores (with the execution of
	EN 60721-3-3	fauna); Class 3B3 on request

 — 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.	290 g
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