SIEMENS

Data sheet

6AG1522-5EH00-7AB0

SIPLUS S7-1500 DQ 16x48VUC/125V -40...+70°C with conformal coating based on "6ES7522-5EH00-0AB0 . ""DQ16x" "24...48VUC/125V DC/0.5A; ""16" "channels in groups of 1;"" ""0.5" "A per group;"" Substitute" "value;"" Observe derating"



Figure similar

General information	
Product type designation	DQ 16x24 48 V UC/125 V DC/0.5 A ST
Product function	
● I&M data	Yes; I&M0 to I&M3
 Prioritized startup 	Yes
Operating mode	
• DQ	Yes
• MSO	Yes
Output voltage	
Rated value (DC)	24 V; 48 V, 125 V
Rated value (AC)	24 V; 48 V (50 - 60 Hz)
Power	
Power available from the backplane bus	2 W
Power loss	
Power loss, typ.	3.8 W
Digital outputs	
AG1522-5EH00-7AB0	Subject to change without noti

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Type of digital output	Transistor
Number of digital outputs	16
Current-sinking	Yes
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Limitation of inductive shutdown voltage to	200 V (suppressor diode)
Controlling a digital input	Yes
Switching capacity of the outputs	
 with resistive load, max. 	0.5 A
• on lamp load, max.	40 W; At 125 V DC, 10 W at 48 V UC, 5 W at 24 V UC
Output voltage	
● for signal "1", min.	L+ (-1.0 V)
Output current	
 for signal "1" rated value 	0.5 A
 for signal "1" permissible range, max. 	0.6 A
Output delay with resistive load	
• "0" to "1", max.	5 ms
• "1" to "0", max.	5 ms
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.	25 Hz
 with inductive load, max. 	0.5 Hz
● on lamp load, max.	10 Hz
Total current of the outputs	
 Current per channel, max. 	0.5 A
 Current per group, max. 	0.5 A
 Current per module, max. 	8 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Diagnostics indication LED	
• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
 Channel status display 	Yes; green LED
 for module diagnostics 	Yes; red LED
Potential separation	

 between the channels, in groups of between the channels, in groups of 	Potential separation channels	
 between the channels and backplane bus Ves Permissible potential difference between different circuits 125 V DC/48 V AC Isolation tested with 1200 V DC Standards, approvals, certificates Suitable for safety functions Ambient temperature during operation horizontal installation, min. Anorizontal installation, max. Ambient temperature during operation horizontal installation, max. Ambient temperature during operation 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. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants — Resistant to commercially available to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 Use on ships/at sea — to chemically active substances according to EN 60721-3-4 Use on ships/at sea — to biologically active substances according to EN 60721-3-6 Yes; Class 354 incl. sand, dust, * Yes; Class 354 incl. sand, dust, * Yes; Class 663 rul, sand, dust, * Yes; Class 662 mold and fungal spores (excluding fauna); Class 663 on request Yes; Class 633 ind. sand, dust, * 	 between the channels 	Yes
Permissible potential difference Detween different circuits 125 V DC/48 V AC Isolation tested with 1 200 V DC Standards, approvals, certificates Suitable for safety functions Ambient conditions No Ambient conditions -40 °C; = Tmin (incl. condensation/frost) • horizontal installation, max. -40 °C; = Tmin (incl. condensation/frost) • horizontal installation, max. 70 °C; = Tmax; > +60 °C max. 0.25 A per output Allitude during operation relating to sea level 2000 m • Installation altitude above sea level, max. -A0 °C; = Tmin (incl. condensation/frost) • Motient air temperature-barometric pressure- altitude 100 %; RH incl. condensation / frost (no commissioning in bedweed state), horizontal installation Relative humidity 100 %; RH incl. condensation / frost (no commissioning in bedweed state), horizontal installation • With condensation, tested in accordance with IEC 60068-238, max. Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauma); Class 3B3 on request • to biologically active substances according to EN 60721-3.3 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauma); Class 3B3 on request • to biologically active substances according to EN 60721-3.4 Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request • to	 between the channels, in groups of 	1
between different circuits 125 V DC/48 V AC Isolation Isolation tested with 1 200 V DC Standards, approvals, certificates No Ambient conditions No Ambient temperature during operation -40 °C; = Tmin (incl. condensation/frost) • horizontal installation, min. -40 °C; = Tmin (incl. condensation/frost) • horizontal installation, max. 70 °C; = Tmax; > +60 °C max. 0.25 A per output Altitude during operation relating to sea level • • Installation attitude above sea level, max. 70 °C; = Tmax; > +60 °C max. 0.25 A per output Ambient temperature-barometric pressure- altitude • • Installation attitude above sea level, max. 2 000 m • Installation attitude above sea level, max. * • Ambient air temperature-barometric pressure- altitude 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Relative humidity • 100 %; RH incl. dissel and oil droplets in the air Coolants and lubricants Ves; Class 382 mold, fungus and dry rot spores (with the exception of fauna); Class 383 on request • to chemically active substances according to EN 60721-3-3 Ves; Class 382 mold, and fungal spores (excluding fauna); Class 6B3 on request	 between the channels and backplane bus 	Yes
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Suitable for safety functions No Ambient conditions Ambient temperature during operation And the product of the product	Standards, approvals, certificates	
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according to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. Yes; Class 3 (excluding trichlorethylene)		
— Against chemically active substances acc. Yes; Class 3 (excluding trichlorethylene)	-	Yes; Class 6S3 incl. sand, dust; *
	Usage in industrial process technology	
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.	230 g
last modified:	10/13/2020

