SIEMENS

Data sheet

6AG1532-5HD00-7AB0



SIPLUS S7-1500 AQ 4xU/I ST based on 6ES7532-5HD00-0AB0 with conformal coating, -40...+70 °C, analog output module 16-bit resolution, accuracy 0.3%. 4 channels in groups of 4, diagnostics; substitute value including infeed element, shielding bracket and shield terminal

Figure similar

riguesiiina		
General information		
Product type designation	AQ 4xU/I ST	
based on	6ES7532-5HD00-0AB0	
Product function		
• I&M data	Yes; I&M0 to I&M3	
Fast startup	Yes; 500 ms	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Power		
Power consumption from the backplane bus	0.6 W	
Power loss		
Power loss, typ.	4 W	
Analog outputs		
Number of analog outputs	4; > +60 °C max. 4x ±10 V permissible	
Voltage output, short-circuit protection	Yes	
Voltage output, short-circuit current, max.	24 mA	
Current output, no-load voltage, max.	22 V	
Cycle time (all channels), min.	3.2 ms; independent of number of activated channels	
Output ranges, voltage		
• 0 to 10 V	Yes	
• 1 V to 5 V	Yes	
• -10 V to +10 V	Yes	
Output ranges, current		
• 0 to 20 mA	Yes	
• -20 mA to +20 mA	Yes	
• 4 mA to 20 mA	Yes	
Connection of actuators		
 for voltage output two-wire connection 	Yes	
 for voltage output four-wire connection 	Yes	
• for current output two-wire connection	Yes	
Load impedance (in rated range of output)		
with voltage outputs, min.	1 k Ω ; 0.5 kOhm at 1 to 5 V	
 with voltage outputs, capacitive load, max. 	1 μF	
with current outputs, max.	750 Ω	
 with current outputs, inductive load, max. 	10 mH	

Analog value generation for the outputs			
Integration and conversion time/resolution per channel			
Resolution with overrange (bit including sign), max.	16 bit		
Errors/accuracies			
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %		
Linearity error (relative to output range), (+/-)	0.15 %		
Temperature error (relative to output range), (+/-)	0.002 %/K		
Crosstalk between the outputs, max.	-100 dB		
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %		
Operational error limit in overall temperature range			
Voltage, relative to output range, (+/-)	0.3 %		
• Current, relative to output range, (+/-)	0.3 %		
Basic error limit (operational limit at 25 °C)			
Voltage, relative to output range, (+/-)	0.2 %		
• Current, relative to output range, (+/-)	0.2 %		
Interrupts/diagnostics/status information	0.2 //		
Diagnostics function	Yes		
Substitute values connectable	Yes		
Alarms	100		
Diagnostic alarm	Yes		
Diagnoses	- 100		
<u> </u>	Yes		
Monitoring the supply voltageWire-break			
	Yes; Only for output type "current" Ves: Only for output type "voltage"		
Short-circuit Overflow/underflow	Yes; Only for output type "voltage"		
Overflow/underflow Discussifies indication LED.	Yes		
Diagnostics indication LED	V 150		
• 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 	Yes; red LED		
for module diagnostics	Yes; red LED		
Potential separation			
Potential separation channels	N.		
between the channels	No		
 between the channels, in groups of 	4		
 between the channels and backplane bus 	Yes		
Between the channels and load voltage L+	Yes		
Permissible potential difference			
between MANA and M internally (UISO)	75 V DC/60 V AC (base isolation)		
between S- and MANA (UCM)	±8 V		
Isolation			
Isolation tested with	707 V DC (type test)		
Standards, approvals, certificates			
Ecological footprint			
environmental product declaration	Yes		
Global warming potential			
— global warming potential, (total) [CO2 eq]	37.6 kg		
 — global warming potential, (during production) [CO2 eq] 	11.1 kg		
— global warming potential, (during operation) [CO2 eq]	26.8 kg		
global warming potential, (after end of life cycle) [CO2 eq]	-0.364 kg		
Ambient conditions			
Ambient temperature during operation			
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)		
horizontal installation, max.	70 °C; = Tmax		
vertical installation, min.	-40 °C; = Tmin		
vertical installation, min. vertical installation, max.	40 °C; = Tmax		
French included in the state of	io o, iiiiax		

Altitude during operation relating to sea level				
 Installation altitude above sea level, max. 	5 000 m			
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tma - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 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	V 01 000 11 () () () () ()			
to biologically active substances according to EN 60721-3-3 to chemically active substances according to EN	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request			
60721-3-3 — to mechanically active substances according to EN	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, *			
60721-3-3	res, olass son moi. 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	V 0			
— 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			
mensions				
Vidth	35 mm			
Height	147 mm			
Depth	129 mm			
eights				
Veight, approx.	310 g			
assifications				
		Version	Classification	
	eClass	14	27-24-22-01	
	eClass	12	27-24-22-01	
	eClass	9.1	27-24-22-01	
	eClass	9	27-24-22-01	
	eClass	8	27-24-22-01	
	eClass	7.1	27-24-22-01	
	eClass	6	27-24-22-01	
	ETIM	9	EC001420	
	ETIM	8	EC001420	
	ETIM	7	EC001420	

3562

4

IDEA

UNSPSC 15 32-15-17-05

Approvals / Certificates

General Product Approval

EMV





Miscellaneous

Manufacturer Declaration



<u>KC</u>

EMV

For use in hazardous locations

Marine / Shipping

Environment











last modified:

12/8/2024

