SIEMENS

Data sheet

6AG1432-1HF00-4AB0

SIPLUS S7-400 SM432 8AA FOR MEDIAL STRESS BASED ON 6ES7432-1HF00-0AB0

Load voltage L+ • Rated value (DC) • Reverse polarity protection Input current	24 V Yes
Reverse polarity protection	
	Yes
Input current	
input current	
from supply voltage L+, max.	400 mA
from backplane bus 5 V DC, max.	150 mA
Power loss	
Power loss, typ.	9 W
Analog outputs	
Number of analog outputs	8
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	30 mA
Current output, no-load voltage, max.	19 V
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
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ
with voltage outputs, capacitive load, max.	1 μF
• with current outputs, max.	500 $\Omega;$ 600 ohms if common-mode-voltage reduced to <1 V
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	

13 bit

ranges

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• Resolution with overrange (bit including sign),

• Conversion time (per channel)

420 $\mu s;$ 420 μs in the ranges 1 to 5 V and 4 to 20 mA; 300 μs in all

Settling time	
• for resistive load	0.1 ms
for capacitive load	3.5 ms
• for inductive load	0.5 ms
Errors/accuracies	
Operational error limit in overall temperature range	0.5 %·+/ 10 V 0 to 10 V 1 to 5 V
Voltage, relative to output range, (+/-)	0.5 %; +/-10 V, 0 to 10 V, 1 to 5 V
• Current, relative to output range, (+/-)	1 %; +/-20 mA, 4 to 20 mV
Basic error limit (operational limit at 25 °C)	0.5 %·+/ 10 V 0 to 10 V 1 to 5 V
Voltage, relative to output range, (+/-)	0.5 %; +/-10 V, 0 to 10 V, 1 to 5 V
 Current, relative to output range, (+/-) 	0.5 %; +/-20 mA, 0 to 20 mA
Potential separation	
Potential separation analog outputs	
 between the channels and backplane bus 	Yes
Isolation	
Isolation tested with	2120 V DC between bus and L+/M; 2120 V DC between bus and analog part; 500 V DC between bus and local ground; 707 V DC between analog part and L+/M; 2120 V DC between analog part and local ground; 2120 V DC between L+/M and local ground
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C; = Tmin
• max.	60 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Extended ambient conditions	
 relative to ambient temperature-atmospheric pressure-installation altitude 	Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 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	
 against biologically active substances / conformity with EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 against chemically active substances / conformity with EN 60721-3-3 	Yes; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
 against mechanically active substances / conformity with EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Dimensions		
Width	25 mm	
Height	290 mm	
Depth	210 mm	
Weights		
Weight, approx.	650 g	
	05/04/0047	