SIEMENS

Data sheet

6AT8000-1BB00-0XA0



SIPLUS CMS-Hardware IFN ANALOG INPUT Acquisition of analog signals "6*ADC; +/-10V; 192kHz; IP67" $\,$

General information		
Product type designation	IFN AI	
Product description	up to six analog input signals can be measured with the IFN Al	
Installation type/mounting		
Mounting type	standard rail	
Mounting accessories	Mounting bracket, can be ordered as option	
Required clearance		
 for side-by-side mounting at the front 	80 mm	
 for side-by-side mounting at the top 	25 mm	
 for side-by-side mounting at the back 	25 mm	
Supply voltage		
Design of the power supply	stabilized	
Rated value (DC)	24 V	
permissible range, lower limit (DC)	18 V	
permissible range, upper limit (DC)	32 V	
Reverse polarity protection	Yes	
Overvoltage protection	Yes; max. 35 V	
Input current		
from external supply (24 V DC), max.	0.2 A	
Power		
Active power input, max.	4.8 W	
Analog inputs		
Number of analog inputs	6	
Designation of the analog input	CH1 CH6	
Electrical input frequency, min.	0 Hz	
Electrical input frequency, max.	96 kHz	
Overvoltage strength, min.	-60 V	
Overvoltage strength, max.	60 V	
Open-circuit detection	Yes	
Short-circuit detection	No	
Input ranges		
 Voltage 	Yes	
Input ranges (rated values), voltages		
• At DC, min.	-10 V	
• At DC, max.	10 V	
Input ranges (rated values), currents		
• with DC	0.012 mA	
Analog value generation for the inputs		
Parameterizable down sampling frequencies	4 / 8 / 16 / 24 / 48 / 64 / 96 kHz	
Sampling frequency, max.	192 kHz	

Integration and conversion time/resolution per channel	401.9
Resolution with overrange (bit including sign), max.	16 bit
Errors/accuracies	
Relative measuring accuracy for analog input signals, min.	-0.5 %
Relative measuring accuracy for analog input signals, max.	0.5 %
Crosstalk attenuation between analog input signals at 1 kHz	-90 dB
Signal-to-noise ratio for analog input signals	-80 dB
Interfaces	
Number of interfaces	3
Transmission rate, max.	400 Mbit/s
Design of plug-in connection	Connector plug 8-pole (M12)
Protocols	
Bus protocol/transmission protocol	IEEE 1394a/b
Potential separation	
Potential separation analog inputs	
 Potential separation analog inputs 	Yes
Degree and class of protection	
IP degree of protection	IP67
Standards, approvals, certificates	
Certificate of suitability	CE
CE mark	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Use in hazardous areas	
• ATEX	Yes
• IECEx	Yes
Ambient conditions	100
Ambient temperature during operation	
• min.	-40 °C
• max.	65 °C
Ambient temperature during storage/transportation	
Storage, min.	-40 °C
Storage, max.	85 °C
Transportation, min.	-40 °C
Transportation, min. Transportation, max.	85 °C
connection method	
	Male connector 5-pole (M12)
Design of electrical connection for supply voltage Design of electrical connection at input	Connector plug 5-pole (M12)
	M4 screw with contact washer
Design of electrical connection for the PE conductor	M4 screw with contact wasner 2.5 mm ²
Connectable conductor cross-section for PE terminal Machanica/material	2.5
Mechanics/material	
Material of housing	aluminum
Dimensions	
Width	86 mm
Height	210 mm
Depth	87 mm
Depth when mounted on DIN rail	96 mm
Weights	
Weight (without packaging)	1.23 kg
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