SIEMENS

Data sheet

6ES7336-4GE00-0AB0



SIMATIC S7, Analog input SM 336, 6 AI; 15 bit; fail-safe analog inputs for SIMATIC Safety, with HART support, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 20-pole

Supply voltage		
Rated value (DC)	24 V	
Reverse polarity protection	Yes	
Load voltage L+		
Rated value (DC)	24 V	
 Reverse polarity protection 	Yes	
Input current		
From power supply L+, typ.	150 mA	
from backplane bus 5 V DC, max.	90 mA	
Power loss		
Power loss, typ.	4.5 W	
Analog inputs		
Number of analog inputs	6	
permissible input current for current input (destruction limit), max.	40 mA	
Input ranges		
Voltage	No	
Current	Yes	
Thermocouple	No	
Resistance thermometer	No	
Resistance	No	
Input ranges (rated values), currents		
• 0 to 20 mA	Yes	
 Input resistance (0 to 20 mA) 	150 Ω ; typ. 150 ohms max. 175 ohms	
• 4 mA to 20 mA	Yes	
— Input resistance (4 mA to 20 mA)	150 Ω; typ. 150 ohms max. 175 ohms	
Cable length		
 shielded, max. 	1 000 m	
Analog value generation for the inputs		
Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign), max.	16 bit; 15 bit + sign	
Integration time (ms)	20 ms @ 50 Hz, 16.7 ms @ 60 Hz	
Interference voltage suppression for interference frequency f1 in Hz	f=n x (f1 ±0.5 %)	
Encoder		
Connection of signal encoders		
 for current measurement as 2-wire transducer 	Yes	
 for current measurement as 4-wire transducer 	Yes	
Errors/accuracies		
Operational error limit in overall temperature range		

 Current, relative to input range, (+/-) 	0.2 %; 40 µA	
Basic error limit (operational limit at 25 °C)		
• Current, relative to input range, (+/-)	0.1 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
 Fail-safe operation 	Yes	
Group error SF (red)	Yes	
 Encoder supply Vs (green) 	No	
Potential separation		
Potential separation analog inputs		
between the channels	Yes	
 between the channels and backplane bus 	Yes	
 between the channels and the power supply of the electronics 	Yes	
Isolation		
Isolation tested with	370V for 1 min	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
• acc. to EN 954	4	
 Performance level according to ISO 13849-1 	e	
• SIL acc. to IEC 61508	SIL 3	
connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	350 g	

last modified:

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