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 	е	
• 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	

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